

# **SELF-STUDY REPORT**

**For Submission to the National Assessment and  
Accreditation Council**



**Presidency University  
Kolkata  
2016**

**([www.presiuniv.ac.in](http://www.presiuniv.ac.in))**

**Volume-1  
(Institutional Data Analysis)**



## Foreword

I am delighted to present the Self-Study Report of Presidency University for the first cycle of accreditation by the National Assessment and Accreditation Council. We were upgraded from Presidency College to Presidency University in 2010. The First Vice-Chancellor was appointed in 2011. The faculty were subsequently recruited from mid-2012. Our Statutes were published on July 7th 2014. The first batch of undergraduate students were admitted in July 2011 and they graduated in June 2014. The first batch of postgraduate students graduated in June 2013. We began our PhD programme in 2015.

As Presidency College, we received a NAAC accreditation at the A+ level with an institutional score of 90.95. The history of our glorious institution extends from 1817 when we started as the Hindoo College. It has been a challenge, where we believe, we have succeeded in upgrading our infrastructure, facilities and curriculum for transforming this prestigious undergraduate college to a modern university at par with the best in the country within a short span of five years.

While upgrading our teaching and research programmes to those of a modern university, we have incorporated the liberal arts and sciences in choice-based GenEd courses. From the very inception of the university, we started with a semester-based examination and a 7-point grading system with CGPA as the assessment index.

We have a state of the art ICT network enabling complete wi-fi, modern research laboratories, and restored heritage buildings, in our old campus. We have recently added two new campuses for setting up advanced research and multi-disciplinary centers. All our administrative processes are online.

In preparing the Self-Study Report (SSR), we took this opportunity to assess our strengths, shortfalls and challenges. The details are presented in the accompanying report.

This SSR has several parts, as per the NAAC Guidelines. The first part is this volume, which gives an overview of the university and its activities. The second and third volumes focus on the departmental achievements of the faculties of Natural and Mathematical Sciences and Humanities and Social Sciences.

We look forward to a positive response from the NAAC.

**Anuradha Lohia**  
**Vice-Chancellor**



**Table of Contents**  
**Volume-1**  
**Institutional Data Analysis**

Executive Summary	1
SWOC	
1. Vice-Chancellor	9
2. Registrar	11
3. Finance Officer	12
4. Dean of Humanities and Social Sciences	15
5. Dean of Natural and Mathematical Sciences	16
6. Controller of Examinations	19
7. Dean of Students	21
Profile of the Institution	23
Criteria-wise Inputs	
Criterion I: Curricular Aspects	33
Criterion II: Teaching-Learning and Evaluation	41
Criterion III: Research, Consultancy and Extension	57
Criterion IV: Infrastructure and Learning Resources	90
Criterion V: Student Support and Progression	107
Criterion VI: Governance, Leadership and Management	124
Criterion VII: Innovations and Best Practices	141
Appendix	147
Glossary	171

## **EXECUTIVE SUMMARY**

**CRITERION I: CURRICULAR ASPECTS**

Presidency University curricula are designed and implemented with the objective of the university's mission and vision in mind. The aim of developing a secular and scientific spirit in the youth, which once inspired the setting up of the Hindoo/ Presidency College, is still relevant for this fledgling university. The course curricula have evolved from that of a traditional conservative education to a more liberal education since the inception of the university in 2011.

The choice and introduction of new subjects at the postgraduate and undergraduate levels is need-based, keeping in mind the societal demands, research prospects, NET requirements, and employability factors. We strive to maintain quality assurance and the dynamic process of designing and revising the curricula is undertaken in consultation with all the major stake holders of the university. It is worthwhile to mention here that the departments enjoy full academic autonomy in designing and implementing their courses. Experts from various disciplines have been invited to offer their valuable suggestions and guidance for the planning and development of curricular aspects. Every proposed syllabus (and revision) is vetted by the Board of Studies of the department concerned and the respective Faculty Council before receiving the seal of approval from the Governing Board which is the highest decision-making body of the university.

At present, two faculties – namely the Faculty of Natural and Mathematical Sciences and the Faculty of Humanities and Social Sciences – have a total of 15 departments under their ambit, offering 15 undergraduate and 18 postgraduate courses. Presidency University has pioneered innovative courses like the postgraduate course in Performing Arts (to be introduced in the 2016-17 academic session) and the GenEd (or General Education) courses at the undergraduate level. The present curricular design promotes intensive learning of one Major subject, along with ten modules of GenEd subjects at the undergraduate level. Replacing the earlier system of taking 'pass course' subjects, the new GenEd programme at Presidency University introduces students to a broad range of subjects from across different disciplines. This programme is designed to teach them to transcend disciplinary boundaries and to ensure a more holistic liberal development that is in keeping with the academic tradition of the university and current international standards of research. The GenEd programme requires all undergraduate students to take ten courses over four semesters, where students of the Sciences have to take two compulsory Liberal Arts courses and vice versa.

Admission to Presidency University has always been very competitive and rigorous. High academic standards are maintained by supplementing class lectures with lab work, field trips, tutorials, seminars, student paper presentation, public talks by specialists in the field, etc. Also, in keeping with the UGC guidelines, there is strict adherence to the rule of minimum 75% class attendance in order to qualify to sit for the End-Sem exams. Students are offered a Choice-Based Credit System (CBCS), in tune with global trends and UGC recommendations, and the university offers value added education by offering courses on Environmental Science, computer applications and foreign languages like French and German. Presidency University has also signed several MoUs, e.g. with Cambridge University, Trinity College, Dublin, SOAS, University of Groningen, etc., and the students can avail of the credit transfer system when taking up courses outside Presidency.

Thus, the curricula at Presidency University are designed with the larger goal of making our students academically sound, competitive and employable. It offers the students an opportunity to both specialize in a field of their choice and also to acquire a broad-based culture which would serve them well in future. Therefore, the opinion of the students, popularly termed "students' feedback", is an integral and indispensable part of the entire process. The feedback of the students, on aspects of the curricula, is seriously taken into consideration and the syllabi are constantly revised and updated in keeping with evolving global trends. The curricula are periodically reviewed by DST (in the Sciences) and other funding agencies, and the intention is always to equip the student with the most comprehensive course content and the best teaching methods that we have the material and personnel resources to provide.

### CRITERION II: TEACHING-LEARNING AND EVALUATION

Presidency University justifiably takes pride in the quality of students it produces. Hence, admission to Presidency University, for both undergraduate and postgraduate courses, is strictly on the basis of ‘merit-cum-entrance test’, and it is highly competitive – in fact, for some subjects, the demand ratio is as high as 1:40. At formal meetings of the statutory Admission Committee, each department sets the cut-off mark in both aggregate and the subject concerned, and the minimum requirement to apply may vary from 60% in some departments to 80% (or higher) in some others. Minimum eligibility criteria, model / sample questions, exam schedule and venue, and all other relevant information, are published in the University website well in advance. The entire admission process, which is now being conducted by the state West Bengal Joint Entrance Examination Board for wider reach and efficiency, is transparent and fair. Right from the application form stage to the payment of admission fees by successful candidates, every step is conducted online. The entrance test, spread over the centres in the state specified by WBJEE, is based on an online MCQ pattern for some subjects (usually the Sciences), while other departments (mainly Humanities and Social Sciences) rely on conventional pen-and-paper exams of the subjective essay type. The results are published online and all national and state reservation policies are strictly adhered to.

After admission, the students are welcomed to the university by the Hon’ble Vice-Chancellor whose speech reminds them of the glorious traditions and rich 200-year heritage of the institution they have joined. The students are also periodically encouraged to participate in orientation programmes where the university’s zero tolerance policy towards any form of ragging or sexual harassment is emphasised. Since the students come from diverse social, economic and academic backgrounds, there is provision for remedial English language classes, merit-cum-means scholarships and free studentships, hostel accommodation for those hailing from outside the city, and professional counselling for those who need it. The university also encourages its students to take part in a range of extra-curricular activities in order to nurture their varied interests; there are students’ clubs/ societies for photography, creative writing, debating, quiz, drama, sports etc., apart from the NSS.

Each department independently frames its own syllabus which is published on the University website. The individual teachers make reading lists and other study materials available to the students who are also encouraged to look up e-journals and e-databases to supplement their classroom experience. Rote learning is strongly discouraged and students are inspired to challenge received notions and develop a critical faculty by which they subject every idea to the test of reason. In fact, students’ feedback, on course content and teaching methods, is taken into consideration while revising curriculum in order to keep it up-to-date with current global developments in the field. Alongside conventional classroom teaching (often with audio-visual aids), the element of research is stressed upon and students are encouraged to present seminar papers, to critique their peers’ work, to take active part in group discussions, to engage in projects and/or field work etc. Some of the brightest students have the opportunity to benefit from international exposure through student exchange programmes initiated by the signing of several MoUs between Presidency University and foreign institutions such as Cambridge University, Trinity College Dublin, SOAS (University of London), University of Groningen, University of East Anglia, Sciences Po, etc. The university has a provision for credit transfer (at both intra-university and inter-university levels) which facilitates such student exchanges.

The faculty members too actively engage in research and attend national and international conferences where they present papers and, at times, chair sessions. Most of the faculty members regularly publish in peer-reviewed national and international journals and some of them have been awarded research projects by UGC, DST, DBT, UKIERI etc. They also constantly upgrade their subject skills by attending UGC sponsored Refresher Courses and Orientation Programmes for which they are granted leave. In keeping with global trends, interdisciplinary studies are encouraged – right from the undergraduate GenEd level to the PhD research level. The sanctioning of five posts of Distinguished Professors, by the State Govt, in fields which cut across narrow disciplinary boundaries, is a step in the right direction along with the setting up of a couple of privately endowed Chair Professorships.



The university's Academic Calendar is published on its website and examinations are held on schedule and the results published very promptly. The pattern of examination is semester-wise, for both the undergraduate and postgraduate courses, and the anonymity of the examinee is preserved during evaluation. There are two types of papers: taught course modules and laboratory-based or sessional papers, each of 50 marks (or 4 credits). Under the new regulations, in vogue since 2013, the former type has a distribution of 35 marks for the End- Sem exam along with 15 marks for continuous assessment. The laboratory-based or sessional papers are also evaluated on the basis of continuous assessment (though some departments may opt for Practical examinations, Viva-Voce, Seminars, term papers, etc.). Students are awarded SGPA/ CGPA values based on their performance in both Honours and GenEd courses at the BA level. There is provision for review of the taught course papers, without any restriction being imposed on the number of papers that a student can review. The entire examination system, from form fill-up by examinees to submission of marks by the faculty, has been revamped and it is now on-line. This has streamlined the entire examination process and greatly benefitted the data management and documentation system of the examinees. The introduction of the online marks Submission system is the first of its kind among the universities of West Bengal, and it has helped to speed up result publication in an error-free and timely manner. This is significant step towards the goal of e-governance.

### **CRITERION III: RESEARCH, CONSULTANCY AND EXTENSION**

Presidency University has a robust and successful track record in research, consultancy and extension of the same into the greater community. Socially motivated and committed to academic excellence, the university seeks to promote research through cutting-edge interdisciplinary approaches, which ultimately fosters a synergy between the world of higher education and the greater society. At Presidency University brilliant academic discourse, lead to successful research partnerships with the civil-society, corporate sector and advocacy groups. Motivated by a community of faculty immersed in research, the university's commitment to facilitate the smooth implementation of projects and a spirit of innovative ideas and luminous learning, students are encouraged to extend and transform their theoretical education into praxis. The motivation for institutional social responsibility is evident in the fact that student scholars and researchers are not limited by the boundaries of the ivory tower; instead, they find themselves liberated by a meaningful real-world education that makes them into conscientious and democratic citizens.

In order to fulfil the promise of education that the Presidency University has made to the community it serves, the university provides faculty and student researchers with the infrastructure and requirements of their discipline and proactively works at devising methods by which the needs of research in emerging disciplines can be met. In looking towards and planning for the future, the university has established new a centre in Kurseong Hills specialized for studying Himalayan Diversity. The Centre will concentrate on research on language and social diversity of the hill region and will proudly house a radio telescope observatory for astrophysics. As for the present, a generous Faculty Research and Professional Development Fund (FRPDF) actively support all faculty research, while the university library is fast becoming a formidable Information Resource Centre. University Research Fellowships (URF) are made available to research scholars, while others are the recipients of external fellowship, such as, through CSIR-NET, UG-JRF-SRF, project-based aid by different National/International funding agencies. The young university now operates nearly 100 research projects with a funding to the tune of Rs 22 Crore during the last two years which is visibly more than 300% increase from projects completed in last four years. The faculty members have active collaborations with national institutes such as IISER, IITs and foreign universities such as TCD, Ireland, Hiroshima, Japan, through bilateral programmes funded by nodal agencies like DST or the foreign universities. Most of the Science departments have received the DST-FIST assistance. Geology Department is recognized under UGC-CAS programme for the second consecutive phase. The research infrastructure is strengthened with this assistance of about Rs 15 Crore. A central instrumentation facility has been created in Biological Sciences with DBT-Builder fund. Humanities departments initiated interdisciplinary research .More than 600 in last four years of which >70%

## **Presidency University**

in international peer-reviewed journals of impact factor as high as 30. With the introduction of PhD programme 109 students have enrolled for the degree. University has created provision to fund one scholar for every faculty member for five years.

The ethical core of the university is revealed in the fact that it has a Research Advisory Committee which mentors faculty and student researchers to write and submit their work to nodal funding agencies; however, it also monitors and address all issues related to oversight and accountability. Presidency University has a community of prolific faculty, many of whom have extensively published their research in both national and international forums and have received much critical and scholarly acclaim.

The nascent university has worked tirelessly to build on the legacy of excellence of the erstwhile Presidency College and has maintained the tradition of hosting eminent scholars, from a wide cross-section of disciplines, to campus for seminars, lectures, and workshops. A milieu of scholarly research has also been established in creating a number distinguished chair professorships from endowment funds that have enabled the university to have exemplary leadership in formulating research policies to providing expert guidance in laboratory modernizations. Finally, Presidency University takes pride in the ever-increasing numbers of partners and collaborators from across the globe, who has embraced its vision for research and development.

## **CRITERION IV: INFRASTRUCTURE AND LEARNING RESOURCES**

Presidency University houses state-of-the-art academic and allied infrastructure including living space, activity arena, facilities, and amenities on the campus. The committee on Planning and Development is the nodal body to formulate and execute the plans for infrastructure and teaching learning resources. Major renovation is in progress across the campus to accommodate newly hired faculty and the increased student capacity. Since the University comprises of largely Heritage Buildings, great care must be taken in conceptualizing and executing renovation. The future expansion of the university included two additional campuses: the New Town campus (10 acres) and the Himalayan Centre for Presidency University at Dow Hill Educational Hub, Kurseong (2.5 acres for the first phase). The university has a very efficient IT-infrastructure. The entire campus is a wi-fi enabled zone with high-speed NKN connectivity. Every department has a separate office space well equipped with networking computers and printer facility. The university has adequate arrangement for disabled students and staff. Such facilities include elevators, toilets and ramp in every building. The university has two hostels for men and women: the former is undergoing extensive renovations currently, and when complete, it will have a well-equipped gymnasium, two libraries, one for text books and the other for fiction and valuable journals, a 75 seater common room / television room, and a 100 seater dining hall with three canteens. The girls' hostel has a meeting room, well-equipped library, TV room, Gymnasium, community refrigerator, and offers a dedicated bus service between the hostel and the university. The university has an agreement with the neighbouring Calcutta Medical College for any emergency medical facility for students and staff living on campus or outside. The university encourages games and sports: it has a full-size football and cricket ground and tracks for all athletic events inside the campus, and a dedicated sports department under the supervision of teacher-in-charge takes care of the planning and need for games sports. For academic and extra-mural activities, the university has a range of auditoria which include a 700-seater fully air-conditioned auditorium (Derozio Hall); a 100-seater air-conditioned gallery (AJC Bose Auditorium); a 150 seater Lecture Theatre (PLT-1); and a 30-seater conference room (Bankim Sabhagriha). The University has stellar library facilities, which are overseen by the Library Advisory Committee (LAC). The Library System consists of: 1) Arts Library-Main, Arts Library-Annexe; 2) Science Library (Central Library); 3) Departmental/ Seminar Libraries in each department. In total, library holdings add up to 3 lakh 54 thousand and 673 print books (which includes a treasure-trove of rare materials) and the university has now acquired extensive e-collections which includes over 250 e-journals for the sciences and liberal arts.

## **CRITERION V: STUDENT SUPPORT AND PROGRESSION**

Presidency University has been striving to devise various means to extend support to students, and to address the diverse needs of different sections of the students. In the last four years different measures have been adopted by the University to ensure that the students receive both academic support as well as other forms of counsel in order to develop into as educated human beings, better equipped for their lives after university.

Different innovative measures have been introduced by the university to provide mentoring to students beyond the classroom. For all departments, the provision for mentoring has been built into the curriculum, in the form of tutorials and dissertation writing at the undergraduate and postgraduate level. Students are assigned one supervisor in the fifth and sixth semester (for undergraduate students) and third and fourth semester (for postgraduate students) with whom they can discuss and develop their research interests. Many of the sessional courses are designed in a way, that the students engage with theoretical discussions or have research experience through book reading groups, film-making, laboratory work or fieldwork.

It is also essential that the university gives the students a taste of the wider world of research and other areas of work. With this view the university has intensified its efforts to invite people from different arenas for its public lectures. These lectures coupled with the academic seminars and conferences have introduced students to a wide array of research and public discourse, giving them a window into the world of possibilities that awaits them.

The question of enhancement and overall development of the students has been addressed through organising the interaction of the students with cultural personalities - as has been done through the university's collaboration with SPIC MACAY. The University believes that students must learn to engage with the world outside university and not be confined to an ivory tower. With this aim, various outreach programmes are organised which allow students to interact with different sections of society - from schoolchildren, to their global academic counterparts, to sections of the industries.

The university extends supports to different sections of students, keeping in mind the different issues that concern students. A cell against sexual harassment, an anti-ragging cell, an equal opportunities cell, a student faculty council are among the many bodies that have been formed to address concerns of students specific to their social location, and general academic concerns. These committees also meet regularly and have various seminars, discussions etc. to create a gender-sensitive, caste-sensitive campus.

Financial help is extended to students who are meritorious and underprivileged. The University has as many as 90 endowment funds for academically strong students. Provisions are made for physically challenged students. The university also offers medical benefits to its students, particularly those who are underprivileged. The international student cell is also striving to support overseas students. Right now there are three overseas students (two in the humanities and one in the sciences).

The university provides an atmosphere of learning and sensitivity, and the faculty and administration are engaged in supporting the students. While a vibrant, sensitive campus is one manifestation of this, the placement of a high percentage of students in the industrial sector, and the academic success of many students - be it in qualifying for the UGC NET/JRF or getting admission in prestigious institutions in India and abroad - are testament to this fact.

### CRITERION VI: GOVERNANCE, LEADERSHIP AND MANAGEMENT

In recognition of the high academic standards maintained by Presidency College, it was upgraded to a university on 7th July 2010 u/s 12B of the UGC Act. The UGC has also accorded Presidency University the status of an Educational Institution of National Eminence in 2012. (This continues the tradition of pursuit of excellence for which erstwhile Presidency College was granted the UGC CPE status in 2003 and the NAAC evaluation accorded it an A+ status in 2006). Presidency University continues to focus on its areas of strength over the years, i.e. the humanities and social sciences, and the physical and biological sciences. However, new emerging areas such as Digital Humanities, Computational Biology, Performance Studies, Astrophysics, Big Data analysis and Material Science are also receiving sufficient emphasis and attention. Very recently, in 2015, Presidency inaugurated the Himalayan Centre at the Kurseong Educational Hub which will conduct research on the astrophysics, environment, and the unique socio-cultural and linguistic characteristics of the Himalayas.

The Presidency University Act provides for an advisory body, the Presidency Mentor Group (PMG), which consists of 7 to 9 eminent educationists. The PMG formulates the long-term vision and plans of the university and the Governing Board, which is the highest decision-making body of the university, implements them. The Governing Board comprises a healthy mix of faculty representatives and external academic experts. Apart from these two bodies, there are various other Statutory committees like the Planning and Development Committee which looks after infrastructure issues, the Finance Committee, The Library Committee, the Admissions Committee, etc. Faculty members comprise a significant proportion of such committees, besides being actively involved in the more purely academic decision-making bodies like the departmental Boards of Studies, the departmental-level PhD Committees, the two Faculty Councils, the faculty-level Doctorate Committee, and the Internal Quality Assurance Cell (IQAC). The university statutes also lay down provisions for a students' union and for student representatives in important university bodies like the Governing Board and the committee against sexual harassment (PUCASH). Thus participative management is the very ethos of Presidency University.

Members of the faculty are actively encouraged to pursue research and the unique FRPDF scheme (i.e. Faculty Research and Development Fund) helps them to participate in conferences abroad, thus providing them with very valuable international exposure – the academic benefits of which are then passed down to the student community. The faculty try to balance their teaching and administrative duties while pursuing advanced research, often of an inter-disciplinary nature. The institution of five Distinguished Professorships (sanctioned by the State Government) and two Chair Professorships (by private endowments) have come as a big boon and they provide the necessary academic leadership to take Presidency to the forefront of the production and dissemination of knowledge and scholarship. Private endowments have also instituted several medals and prizes which encourage students to perform better and reward the most outstanding achievers amongst them. The Presidency University Vice-Chancellor's Fund for Excellence also channels the generous contributions made by private donors---a large proportion of them being distinguished alumni---to improve the infrastructure and academic environment of the University. The Finance Department efficiently manages all these various funds, the faculty Group Mediclaim and the General Provident Fund schemes, as well as the budgetary expenditure, in a systematic and transparent manner so that no serious audit objections are raised. The office of the Controller of Examinations also smoothly runs the semester examination process and the results are published in a timely manner, with provision for review of results. Thus, despite having a lean administration (with a few junior administrative posts still vacant), Presidency University continues to function efficiently as, perhaps, a model unitary university in the country.

**Criterion VII: INNOVATIONS AND BEST PRACTICES**

Presidency University has committed itself to be a leader in the green revolution among institutions of higher learning in India. Although a new university, Presidency actively promotes and practices principles of environmental conservation and consciousness. In terms of academic work, faculty and students have undertaken project to both research and remedy environmental problems, such as, Arsenic and Fluoride contamination in groundwater and heavy metal pollution. On the other hand, the university in its daily life have proactively chosen to embrace efficient usage of energy and is in the process of replacing all AC-plants and derelict appliances for more efficient ones. In addition, the university maintains a central garden and patches of greenery all around the campus. A butterfly park and mini greenhouse is maintained by the Department of Biological Sciences and an efficient water harvesting project is under progress at the Geography Department.

The principles of innovation at Presidency are not merely restricted to its infrastructure alone, but forms the bedrock of all academic and non-academic activities at the university. It is the ideology of innovation that inspires and permeates all things at Presidency University, a few instances of which are: (1) A choice-based curricular design and an interdisciplinary GenEd programme that requires students of the natural sciences to immerse themselves in principles of humanities and social sciences, while also requiring the students of humanities and social sciences to grapple with some foundational natural science issues that impact our lives. This helps students gain a holistic education and transcend petty and often facile disciplinary divides. (2) Interactive teaching methodologies and innovative pedagogical approaches to teaching as different types of academic interaction with students. (3) Innovation in a more ethical and equitable evaluation system which enables the usage of various forms of grading, based on different registers of academic expression, designed to suit the uneven and varying strengths and weaknesses of different students. (4) Innovation in university administration through e-governance, which not only makes for a high-speed wireless campus, but also enables faculty to efficiently submit grades online, apply for leave online, and seek instruction regarding the different kinds of financial activities, such as accessing the General Provident Fund Statement online. (5) The creation of distinguished chair professorships to promote excellence. (6) The implementation of a public lecture series that bring renowned scholars and personalities, such as His Holiness the Dalai Lama, to campus. (7) The commitment to social outreach and advocating the study of local cultures and communities. To this effect, the university is in the process of designing a range of new teaching programmes and research schools in its third campus at Dow Hill, Kurseong.

Presidency University takes pride in highlighting two examples of its best practices, namely the its interdisciplinary General Education (GenEd) undergraduate programme and the institution of the Faculty Research and Professional Development Fund (FRPDF) for all its full-time faculty. The university has been successful in establishing and maintaining a dynamic choice-based curriculum at both undergraduate and postgraduate degree levels. At the undergraduate level the interdisciplinary General Education programme exposes students from different discipline to a variety of both foundational and cutting-edge courses in the humanities, natural sciences and social sciences. The FRPDF stands unparalleled, as an innovative practice, inspiring a global standard of academic excellence in a resource-constrained environment of higher learning, which is joined to a practice of fair, free, and methodical implementation. The FRPDF grant has enabled a culture of academic research and has globally exposed the faculty and encouraged them to publish their research in high impact international journals or publish books with the most renowned international publishers. It has also contributed to their teaching, in the form of the designing and implementation of new cutting-edge courses in different disciplines. Therefore, the augmentation of funds, space, and personnel is critically required to keep up the beneficial effects of this great innovation at Presidency University.

## SWOC

**Strengths-Weaknesses-Opportunities-Challenges (SWOC)  
analyses and vision statements  
Vice-Chancellor**

**Strengths**

Presidency University originated as Hindoo College (1817) as the first institution of higher education based on modern scientific and rationalist ideas in the Indian subcontinent. Hindoo College was renamed Presidency College in 1855. This institution was recognized for its outstanding excellence based on the success of its alumni in different fields. Recognizing its unique potential amongst all other colleges and its outstanding excellence in all fields, the College was finally upgraded to an autonomous unitary university in 2010.

Since 2010, the university has engaged extensively to upgrade its infrastructure, its postgraduate and PhD programme and recruited new faculty. It is successful in promoting an ambience of liberal arts and sciences where students from different fields can study across disciplines through the GenEd programme. The GenEd programme has replaced the pass courses where subjects allied to the honours courses only were taught. The university is propagating a culture of research-based teaching right from the undergraduate level. We have developed exchange programmes with foreign universities through which selected students can spend a semester abroad. In order to encourage entrepreneurship, the university has launched an entrepreneurship development programme for aspiring students. The university has given research fellowships to registered PhD programme right from the inception of the programme.

The faculty of Presidency University is at par with the best in the world both for teaching and research qualifications. Since most of the current faculties were recruited after 2012, the university has a cohort of the youngest faculty in the country with an average age of 35. We have residential hostels both for girls and boys and provide subsidized transport to the university.

Presidency University has taken special care to make the campus friendly for the physically-handicapped. Our efforts are ongoing to improve the facilities for those with special needs. We are in the process of setting up two new campuses-one in New Town Kolkata and another at the Himalayan Centre of Presidency University at Dow Hill, North Bengal. The new campuses will focus on setting up advanced multi-disciplinary postgraduate centers and research programmes. The Himalayan centre will focus on subjects that are relevant to the location both in the natural and social sciences. The second campus at New Town will set up advanced centres in the areas of Big Data Analytics, Biotechnology, Public Policy and other areas. We have converted all our administrative processes to e-governance including exam and admission related processes.

**Weaknesses**

Since we are a new university that has been upgraded from a undergraduate college, we are still struggling to complete our up gradation both infrastructural and in human resources- while the university is functioning. This puts a major strain on existing facilities, faculty and students.

Being a state-funded university, we are unable to raise funds through fees (which are highly subsidized) while providing high quality education. Thus we are constantly dependent on state and other funds for all our activities.

While we have digitized a large number of rare books in our library, we still have many rare books that reflect the history of Bengal and the freedom movement. We would like to display these books so that those who are interested can view them. We have inadequate space for these. We also need to increase the library space in accordance with the increasing number of books and journals that are added at a regular basis. We wish to create an archival museum for many artifacts as well as our archeological specimens. It will be imperative to acquire funds and space for this.

## **Presidency University**

### **Opportunities**

We are poised to seize new opportunities for increasing the academic spectrum of our University. With two new campuses, we will add new centres that are relevant and futuristic to satisfy the educational demands of the next generation. Just ahead in 2017 is our bi-centenary year where we will attempt to reach out both to civil society, alumni both for funds and partnerships to support our innovation programmes. The university will add numerous partnerships/ collaborations with foreign higher educational institutions and agencies to not only foster global competencies among its students, researchers and teachers, but also to enhance the quality of its local outreach activities which have already attracted national and global attention.

Presidency University has enormous potential for expanding its educational operations, given its excellent human resources, its past credentials and motivation to establish itself as a Centre of Excellence.

### **Challenges**

Our greatest challenge is what we strive to achieve the most- to become a centre of excellence that will be recognized worldwide. It is a challenge, because while we aspire for lofty heights, we are committed to provide inclusive education on subsidized fees, with few resources apart from government funding. The other challenge is to retain faculty at state level salaries with the growing option of higher salaries at private and central universities. These are the main challenges- I believe we can overcome all else if we have good faculty who can provide good teaching, research and inspiration to our students.

**Anuradha Lohia**  
**Vice-Chancellor**



## Registrar SWOC

Transforming a heritage institution (Hindoo College 1817 – 1855; Presidency College 1855 – 2010) with a legacy of great alumni like Sir J. C. Bose, Prof. P. C Ray, Satyajit Ray, Prof. Amartya Sen, first President of India Babu Rajendra Prasad and many more to a University of National Eminence is a challenging task in any country at any time. I believe we have taken successful steps to effect this transformation and are moving ahead towards a New Age University to lead higher education in India and the world. I would like to draw attention to the high standard of teaching and learning process of Presidency University, the excellent achievements of its teachers, students' performance, and foreign collaboration.

### SWOC Analysis

#### Strengths

Maintaining merit as top priority in admission through Joint Entrance Board; strong human resources; Wi-Fi enabled Campus with almost all administrative services available in online portal; diversity in research work in different areas; participatory mode of administration; conducting examinations in semester system with 7 point grading system in the scale of 10 and publication of results on schedule; an effective credit transfer policy; choice-based GenEd courses along with the major subjects; participatory planning for all university development activities; introduction of new interdisciplinary studies; successful industry-institute partnership; faculty members involved at various policy-making levels of both the state and the central governments; having FCRA registration for accepting foreign contribution for development of university; creation of five state-funded Distinguished Chair Professorships and two corporate-funded Chair Professorships out of which one has been created by Infosys Foundation.

#### Weaknesses

Difficulty in attracting foreign students; inadequate generation of own funds; more effort needs to be made to extend specialised activities to other parts of the country particularly in North-Eastern India; participation of alumni in the development of the university needs to be majorly improved; audit courses to encourage the students should be extended; although PU has a strong tradition of student activities like, theatre, debate, literary and other societies, still a lot more can be done to strengthen student activities through various clubs and societies.

#### Opportunities

Using the university's academic strengths to take the leadership in the spread of education and creating a world education centre; expansion using the land available in the Rajarhat Newtown campus; using the expert knowledge available for greater benefit of the state and the country; creating Himalayan Centre of this university in hill area of West Bengal which in turn will contribute the North Eastern region of India; creation of fund from foreign contribution by using FCRA registration for the development of the university.

#### Challenges and Goal

Introduction of interdisciplinary courses; particularly keeping in view new frontiers in genetics, genomics, public policies, public health, astro physics; participation of alumni in the development of the university; restructuring the staff cadre; Efforts for foreign students' admission; regular training programmes for non-teaching staff and officers.

**Debajyoti Konar**  
Registrar

**Finance Officer  
SWOC**

**A brief account of progress during 2011-12 to 2015-16**

- a. The university's Annual Expenditure under "Revenue" head, comprising salary and other maintenance expenditure, increased during the period from Rs. 2.85 Crore a year to Rs. 21.24 Crore (i.e. about 7.45 times increase). The same pace of growth will be there in 2015-16.
- b. While the percentage of cost of employees over the total revenue expenditure was 16 in 2011-12, it has been increased substantially to 59% mainly due to increase in the number of employees of the university with the sanction of posts and recruitment. Since the recruitment is an ongoing process and the university authority has taken a special drive in this respect, such percentage will be more in 2015-16.
- c. The lion's share of the expenditure (about 94%) under Revenue head is accommodated from the grants from State Government and other funding agency. But the dependence of the university on such grants has been reduced consistently.
- d. Internally generated fund of the university has been substantially enhanced from Rs.0.90 Crore in 2011-12 to Rs.3.26 Crore in 2014-15 (i.e., about 262% increase).
- e. Fees from the students are the major source of the self-generated fund of the university which increases from Rs.0.66 crore in 2011-12 to Rs.1.32 Lakh in 2014-15 (i.e., 100% increase). On the other hand, the size of income from other sources like hall and ground rate, overhead, interest on fixed deposits, consultancy fees, etc. have been increased from Rs.0.23 Crore in 2011-12 to 1.94 Crore in 2014-15 (i.e., 714% increase).
- f. Although the cost of education has increased substantially, the process of recovery of costs from the students has not kept pace. It is worth-mentioning that the university being a state-aided one had little scope to augment / rationalize the fees structure since its inception in order to honour its ethical responsibility towards the society at large.
- g. Spending government funds for everybody seems to be a case of subsidizing the rich with money taken from all, including the poor. The university is unable to introduce the concept of cross subsidy as yet in respect of recovery of the cost of education through fees collection.
- h. The university has introduced new fees like fees for document (grade card) verification, Fees for pursuing PhD course, fees from the foreign students pursuing any course in the university, transport fees and so on.
- i. The infrastructural growth and development of the university suffers because of inadequate and irregular funding for development purposes from the Central Government. The University Grants Commission has sanctioned but not yet released the balance grant of Rs.1.15 Crore. On the other hand, out of sanctioned amount of Rs.8.00 crore under the UGC XII Plan General Development Assistance scheme, the university has since been sanctioned and released only Rs.3.20 Crore upto 2013-14 and thereafter no grant has been released. In consequence thereof, all the proposed expenditure under the XII Plan Scheme remains pending.
- j. Although no adequate financial support was received from the State Government till 2013-14 regarding infrastructural development of the university, there has been an astounding change in the scenario from 2013-14. In 2014-15 and 2015-16(till date), the university was sanctioned and released fund by the State Government of Rs. 12.33 crore and Rs.50.00 crore respectively for various infrastructural development encompassing renovation of the old heritage building and construction of new building in the second campus at New Town, Rajarhat. This will lead to a vibrant growth in its academic ambience.

## SWOC analysis

### Strengths:

- Integrity and transparency in the works of the department through proper MIS Report to the university authority and the funding authority. Up-to-date Statement of Accounts and Government Audit of all transactions upto 2014-15.
- A formal structure of delegation of power has been instituted, specifying as to who will issue approve the fund allotment for any expenditure and purchase, give pay orders and sign cheques.
- Introduction of academic friendly rules and guidelines in respect purchase, other expenditure, P.F. of the employees, consultancy services by the departments and so on. Regular monitoring by the competent authority in respect of implementation of such rules and guidelines.
- Maintaining Separate Bank Accounts for Restricted Funds (i.e., UGC Fund, Project Fund, State Development/ Plan Fund, Endowment Fund and so on) and Unrestricted Funds [i.e., State Fund (Non-Plan), Self-Generated Fund] in compliance with the guidelines of the Institute of the Chartered Accountants of India. Rationalization in maintaining the bank accounts.
- All the staff members are very young, energetic, computer-literate and academically sound to perform their tasks efficiently under the supervision and guidance of the professionally qualified and well-experienced officers.
- In order to comply with the requirement of the government in the light of the recommendation of the 6th Finance Commission, COSA software has been implemented for drawing and disbursement of salary.
- There is a healthy and friendly relationship and cohesiveness between the Finance Department and all other administrative and academic departments of the University.
- The bankers of the University are very cooperative in respect of the financial transactions. Door-step facility is available from them as and when required.
- Introduction of online fees collection (SBI COLLECT) leads to a considerable convenience in the matter of day-to-day works of the Department and to save the invaluable time of the students.

### Weaknesses:

- Inadequate number of support staff members in the Finance Department.
- In absence of any sanctioned posts for the non-teaching staff, all the assistants are deployed contractually through external agency. This leads to a risk in the matter of fixing the responsibility to any such member, if required in future.
- Inability to implement a system of incentives and punishments to encourage better and more efficient utilization of manpower.
- Absence of well integrated ERP like system in the department causing procedural delay in the flow of work and poor maintenance of data and essential records.

### Opportunities:

- There is scope for introducing 'paper free management' by adopting more computerized procedures and E-Transfer of money / fund in every sphere.

## **Presidency University**

- It is expected that in near future the university will get a number of sanctioned posts from the State Government and this create a great scope for appointment of more trained and qualified personnel.
- It is expected that the university will be sanctioned a post of Audit Officer under whose leadership an Internal Audit wing may be developed to ensure more accuracy and veracity in making the financial transactions and recording thereof.
- Ample opportunity is there to tap different sources like alumni and corporate bodies for obtaining financial supports in the university's endeavor to develop its infrastructure and achieve academic excellence. In order to encourage the prospective donors in this regard, the university has got necessary approval from the Director General of Income Tax (Exemptions), Department of Revenue, Ministry of Finance, Govt. of India so that the donors may get deduction @100% of the amounts donated by them U/S 80G(2)(iiif) of the Income Tax Act, 1961.

### **Challenges:**

- Globalization of the higher education sector throws a challenge to remain up-to-date in every sphere to cater the demands of the rapidly changing society.
- Sometimes conflict does arise between various requirements of the teachers and the prevailing financial rules and regulations of the Government and to bring about a tradeoff between the two is a big challenge.
- There is a great disparity between the salary and other financial benefits of the employees of this University and those of the central universities/institutes.
- Opening up of a number of centrally-funded or private-funded institutes and universities is another area of challenge.
- With the financial support of the Government being on wane, maintain the standard of education of the university without any revamping of the fees structure is another important challenge.

**Prithul Chakraborty**  
**Finance Officer**

**SWOC**  
**Dean of Humanities and Social Sciences**

**Strengths:** Being a very young university, one of the strengths of the Faculty of Humanities and Social Sciences is that its freshly recruited faculty is full of energy and eager to prove themselves. For some, it is their first university job; for some it is a nostalgic return to their Alma Mater; and for yet others, it is a welcome opportunity to continue their long association with erstwhile Presidency College. Most of the faculty members have obtained their research degrees from reputable institutions abroad and their international experience translates into better exposure of our students to the best ideas and practices of the world of scholarship. The students, who have been selected by a rigorous and highly competitive admission process, are out to prove themselves too and this results in a vibrant atmosphere of debate and intellectual exchange. This constant give-and-take of ideas is facilitated by a healthy teacher-student ratio and some departments (like English) have continued the long tradition of tutorial classes where individual mentoring and bonding is possible. Since Presidency is a unitary university, without the burden of affiliated colleges, the departments have more freedom to frame their own syllabi and experiment with teaching methods, without having to worry about how it will impact students in far flung geographical areas where library resources are scarce. At Presidency, the main Arts library is a veritable treasure house of printed material, some of which may not be found in any other collection in the city.

**Weakness:** None of the seven departments under this faculty have yet applied for the UGC Special Assistance Programme. Since no position of Associate Professor was sanctioned by the state government at the time of transition, the ratio of senior and junior faculty is short of the UGC recommendation. In some departments, professors have not yet been recruited and therefore there is no senior and experienced faculty member to guide the younger colleagues and provide the necessary leadership. Also, most departments are still understaffed and therefore the combined teaching, research, examination and administrative load is quite high. Hence, although most of the faculty members are actively engaged in research, the number of international publications is not really proportionate to the talent/potential that is available.

**Opportunities:** Presidency University has signed quite a few MoUs with leading universities abroad (e.g. Cambridge University, Trinity College, Dublin, SOAS, University of Groningen, University of East Anglia etc.) and this offers the exciting prospect of both Faculty Exchange and Student Exchange programmes. Some individual departments have academic tie-ups with their counterparts abroad (e.g. the Department of Political Science with Sciences Po, Paris, and Georgia State University) and this may well lay the foundation for collaborative research projects in the near future; already there have been successful student exchanges. Within the university too, inter-disciplinary research has fructified in a couple of faculty members from the English and History departments winning a UKIERI project. Although, as a young University, we have not yet established many specialized 'Centres', the 'Gandhi Centre' – housed in the Department of Hindi – has been doing good work in promoting vernacular literature through translations and ethnic research. More inter-disciplinary centres (e.g. one on Nineteenth Century Studies) are in the pipeline.

**Challenges:** At the level of infrastructure, our biggest challenge is the lack of space in the College Street Campus. In the past, as an undergraduate college, each department needed at best three classrooms to conduct the courses for the three batches of BA students. Now, as a university, each department requires at least five classrooms (and more, if 'Optional' PG courses are to be taught simultaneously). Some of the classrooms are not really spacious and with two incremental seats added every year (in keeping with the Government's reservation policy), the teaching space will really become cramped. Moreover, we need to provide more computer work-stations to our students since we are constantly encouraging them to access e-resources and since we need to optimize the use of e-databases in the campus which has been made wi-fi enabled. Also, most of the departmental 'Seminar Libraries' are functioning under severe constraints of space and manpower; we urgently need qualified library staff to run them professionally instead of depending on voluntary service put in by teachers in their spare time.

As regards personnel, our real challenge is to retain our bright young faculty and for this the FRPDF grant alone (however generous) is not sufficient. We cannot really afford to shut our eyes to the fact that disparity in pay scales is resulting in constant attrition, with Presidency losing out to central universities/ institutes. Something needs to be urgently done to stem this brain drain..

**Shanta Dutta**  
**Dean, Faculty of Humanities and Social Sciences**

**Dean, Faculty of Natural and Mathematical Sciences  
SWOC**

Presidency University (upgraded from Presidency College) has a great heritage of almost 200 years. The teaching and learning of modern science started in Presidency College in the middle of the nineteenth century. The Natural Science Department in 1865 initiated physical and earth sciences teaching in this part of the world. This was closely followed by the Chemistry, Geology, and Botany departments during the late nineteenth and early twentieth centuries which ushered in a revolution in science teaching-learning in India. Pioneering Indian scientists like Acharya J.C. Bose, and Acharya P.C. Ray laid the foundation of world-class science research in this institution. Acharya S.N. Bose, M.N. Saha, P.C. Mahalanobis, Sir Asutosh Mukherji, and many other doyens of Indian science graduated from Presidency College. Presidency University has thus inherited the strong tradition of science teaching and research of the erstwhile Presidency College.

**Strengths**

- Faculty: Presidency University has young and talented faculty. Nearly 99 % of the faculty members have a PhD Degree and more than 80% of the faculty members have post-doctoral research experience in Indian and abroad. The average age of our faculty members is close to 35 years.
- Quality of students is among the best in this part of the world. The demand ratio for science subjects, on an average, is around 1:35 and for some subjects it may reach 1:100. The students are selected through state and national level admission tests. A significant number of students qualify in KVPY, JBNSTS, INSPIRE, National Scholarship examinations.
- Student-teacher coordination/relation is very good in all the Science departments. In every department there is a Student-Teacher Committee to discuss issues related to course content, teaching, and for the betterment of departmental activities.
- Curriculum: The university follows a highly advanced syllabus. The Board of Studies in every department meets at least 3-4 times in a year to look into the matters related to academic improvement, including the revision/upgradation of the syllabus in conformity with the national/international level. The views of the experts of other premier National Institutes are also accepted during revision of syllabus.
- Teaching Laboratories: Science departments inherited well equipped laboratories for UG and PG practical classes from the erstwhile Presidency College. The Chemistry laboratory for the UG honours classes is one of biggest laboratories in India.
- Science horizon: The GenEd programmes provide opportunity for students from the humanities faculty to choose science courses.
- Student exchange particularly in PG and PhD levels, through MOUs with renowned Universities like Cambridge University, Trinity College Dublin University, Groningen University, Hiroshima University etc., is encouraged.
- Industry-Academia: MOU with industries and corporate sectors have been signed to give industrial training/summer internship to our students. Students are allowed to carry out projects in industry and corporate sectors. The university is giving support (financial, legal and moral) to the students to start entrepreneurship.
- Strong Research Culture: More than 90% of the teachers have research projects from national agencies such as DST, CSIR, UGC, DBT, BRNS etc. Currently, the science faculty operates 90 projects of about 22 crores.
- Recognition and support: All science departments have received DST-FIST assistance for upgradation of teaching and research laboratories. Geology Department received the UGC-CAS programme for the second consecutive

time. Major laboratory upgradation is underway with DBT-Builder programme to Biological Sciences. The science departments received about Rs 15 Crore in last three years for laboratory upgradation from these nodal agencies. Research labs are equipped with modern instruments. The university has Spectrofluorimeter (time resolved), FT-IR, UV, CD spectrometer, Atomic Absorbtion Spectroscopy (AAS), XRD, HPLC etc. Recently a 400 MHz NMR and a FT IR spectrometer-have been sanctioned to Chemistry department by DST-FIST and it is expected to be installed within next 6 months. Geology laboratory is equipped with SEM-EDS, WDXRF, research model microscope and other equipments.

- Animal House: An animal house for Biological Science Department is used for research work.
- University support for research: Faculty members are inspired to go abroad for further research work through sabbatical leave or to attend seminars and symposiums supported by FRPDF grants.
- Networking and ICT: High-speed 1 GBPs) NKN connectivity, wi-fi enabled.
- University FRPDF for infrastructure: Faculty members receive university fund for research work, procurement of hardware and software.
- Striving for Peer-reviewed publications: In last four years more than six hundred papers have been published in peer reviewed national/international journals of high impact factors, More than 90% publications are in international journals. This indicates the quality of research works carried by our Science faculty members.
- University PhD fellowship: University instituted fellowship (URF) programme for PhD scholars. Each faculty has been allotted one PhD scholar for five years from the university fund.
- Consultancy programme has been initiated by the University
- E-library: University has a dedicated science library with e-resource and e-journals. The library has a huge collection of text books and reference books. In addition most of the science departments have their own seminar library enriched with text and reference books.
- Regular seminar culture and invited talks by eminent scholars are arranged in all the departments
- Fieldwork and excursion programmes
- Flexible Choice Based Curriculum and provision for dissertation, project work, industrial training.
- Placement through campus recruitments in some departments

### **Weaknesses**

- Space crunch: Limited space for expansion in present campus. The science departments are mostly housed in Baker Laboratories which is a century-old heritage building. There is very limited scope for major modification of the heritage structure..
- Vacant faculty positions at Professor and Associate Professor levels.
- Shortage of technicians to run and maintain high-end equipments.
- Shortage of administrative staff, seminar librarian and non-teaching staff, and laboratory attendants.
- Absence of residential facility for researchers for using laboratories through extended hours. Though we have many modern instruments for research works, but modern instruments like Mass Spectra, high field NMR spectra, X-ray crystallography etc and software, computational labs are necessary to improve research facilities.
- Absence of international hostel and guesthouse for foreign collaborators and students.

## **Presidency University**

- Full subscription of major science journal portals.
- Funding is necessary for AMC of different instruments.

## **Opportunities**

- Emerging areas: Young faculty to explore interdisciplinary emerging areas.
- New Campus: Two new campuses for Presidency University-one at Newtown and one at Dow Hill will provide opportunities to set up new laboratories, to establish interdisciplinary schools and advance laboratories.
- Growing interest of international universities for collaborative degree programme, research and faculty exchange.
- Entrepreneurship and industry-academia relationship is opening up with the help of the KPMG group, Bengal Chamber of Commerce and Industry.
- Incubation centre based on industry-based research.
- More student activities through inter-university, science society seminars, conferences.
- Science-society programmes to transmit the contribution to the society, particularly in-service of underprivileged members of the society

## **Challenges**

- To remain in the forefront of teaching and research in science
- To retain and attract best quality faculty
- To provide flexible teaching schedule for attaining maximum flexibility in CBCS
- To institute credit transfer protocol between different universities in the country and abroad
- To provide infrastructure facility for research to doctoral and postdoctoral fellows
- To increase research in consultancy mode
- Placement opportunity

**Gandhi Kumar Kar**  
**Dean, Faculty of Natural and Mathematical Sciences**



## Controller of Examinations SWOC

### Significant examination reforms 2012 –2015

The office of the Controller of Examinations is continuously coping up with the expectations of the faculties and students. It is updated with the introduction of new courses approved by appropriate bodies from time to time. The office has taken care of the lateral entry students and exchange programme students in different semesters spread of the last three- four years. Facilities for credit transfers for students visiting foreign universities under exchange programmes, proper implementation of the choice-based credit system, as per UGC norms have been the hall mark of this office. Recently this office has initiated the PhD coursework examinations for 15 subjects where the coursework has been offered.

A significant change in the examination procedure has taken place in the form of online submission of marks. The software developed indigenously has taken care of the nuances of the security and confidentiality of the sensitive issue of marks awarded by the examiners. This system, though not without scope of further development, has helped in error free publication of results in a timely manner.

The aim and objective of the office of the Controller of Examinations has been to offer more flexibility and privilege to the students and faculties as far as the examinations are concerned.

The examination pattern has seen a sea of changes from the initially introduced extra-departmental courses (along with major subject till 2012) to the modern concept of liberal education with introduction of GenEd programmes in the undergraduate course. Necessary modifications to accommodate such a significant change in terms of database management, record keeping, result publication has been taken care of with the introduction of e-resources introduced in the working of the Section.

### Improvements and innovations introduced

- a) The record keeping is robust with our own server space and proper preservation of hard copy of the same in the custody of the Controller of Examinations.
- b) The system designed for result publication is date specific. This is important and useful in the sense that the data security can be maintained at the ultimate level, with no scope of any untimely modification.
- c) Online facility for transcripts, certificate verification has been introduced.
- d) Online publication of results has been a priority for the Office. This is generally done within three days of the publication of results after the results are sanitised.
- e) Endeavours are on to reach out to the students through their mail. A significant step has been taken in this regard but there is scope for further improvement.
- f) Online application for convocation has been in place since the first convocation in 2013.

### Strength:

The major strength of this office has been the positive intent to publish and manage examinations in an efficient manner. The motivation of the staff of this department has yielded in punctuality of the examination process, adaptation to e-governance, deploying intelligent and time efficient mechanisms, computers and software literacy amongst the staff and a work-beyond-office-hour culture. The constant support of Hon'ble Vice Chancellor has been the mainstay of the continued perseverance and wish for further development.

## **Presidency University**

### **Weakness:**

The office of the Controller of examinations has four staff members to manage the entire office. There is a serious shortage of staff at present, which needs to be overcome in future days to meet expectations. The space at present is also insufficient, for which plans have been drawn and work will commence soon.

### **Opportunities:**

The present staff and the Controller of Examination feel that there is no end to any developmental activity. With changing times, in the era of internet and information explosion, there still remains lots of scope for further development. A major area is reaching out to the students on an individual scale. Efforts are on and in near future roadmaps will be drawn to achieve this.

Secondly, scope for data analytics of examination system needs to be strengthened in future. At present sporadic endeavours have been undertaken to achieve this. Rigorous statistical analysis by a team of experts from within the system can be approached to do this. Such an analysis is important to identify the nuances and pitfalls of the examination and marks awarded system.

Thirdly, developing of in-house facilities for printing of grade cards, certificates and other exam related deliverables is a priority. Funds need to be allocated for this and proper manpower and instrumentation facility to achieve this is of utmost concern to the present staff in this office.

### **Challenges:**

Today's world is overflowing with information and related technology. The greatest challenge is to plunge on to the technology wagon with caution, considering the confidentiality of the data that we generate. Efforts are on to meet this standard.

In its fledgling days Presidency University has attained quite commendable standards and is ahead of the other state universities in this respect. Presidency University is the only state university to adopt an online system of marks submission. Our goal is to be at par with global standards- we aim high.

**Nilanjan Dasgupta|  
Controller of Examinations**

## Dean of Students SWOC

The Statutes of the university include the office of the Dean of Students that reports directly to the Vice-Chancellor. This office is responsible for addressing the varied needs of a diversified group of students coming from almost every section of the society and from different parts of the country. As an office geared exclusively towards responding to the needs of the student, it is in charge of all co-curricular activities related to students such as students' residence and health, students' aid, youth welfare activities, cultural activities and student societies, student council activities and elections, National Cadet Corps, National Service Scheme, counselling and monitoring, anti-ragging and anti-harassment measures. The Dean of Students is also statutorily part of the Students' Welfare Board, Sports Board and the Admissions Committee. The office keeps regular contact with the students and keeps on informing about the issues of their interest through the Dean of Students Corner in the official website of the university.

### Strengths:

- The greatest strength of the university is its students. The legacy and reputation of Presidency College was built on an illustrious list of alumni and the university carries forward this legacy. Towards that end the University has been successful in attracting bright students from different sections of society and extending support to them.
- This is achieved through judicious combination of academic mentoring, counselling, monitoring, and extracurricular activities.
- Institutional support for an inclusive and enabling academic environment is ensured through active teaching learning process including outside class-room activities like public lectures, cultural programmes, awareness initiatives.
- All student related activities, outside the department is coordinated through the office of Dean of Students. The students are regularly updated about the upcoming events, opportunities and facilities through the "Dean of Students corner" on the university website.
- In addition, placement cell, cell against sexual harassment, the anti-ragging cell, the equal opportunities cell to address and redress the concerns and grievances of students specific to their social location, and general academic concerns.
- Vibrant and active societies and clubs, such as the debate society, the quiz society, the drama society, the literary society, the society for paranormal enthusiasts, the cinematic society and the university choir.
- The university has instituted medical insurance and facility for all students which ensures free medical treatment to students in private and public hospitals.

### Weaknesses:

Despite our strengths in ensuring a balanced, academically enriched experience to student some pressing issues remain.

- Although number of bursaries and scholarships are offered to students, there is always requirement for more scholarship especially for students from socio-economically weaker sections of society. There is also shortage of money to sponsor or subsidise our students to participate in international collaborations, seminars and workshops. The rising global profile of the university has made this a pressing concern.
- Another weakness, is the comparatively low participation in physical activities and sports. There is no incentive

## **Presidency University**

for attracting sportspersons or participation in sports, neither is there any financial support dedicated to sport activities. Although the university has cricket, football teams and athletics team, we are unfortunately not diversified in sports representation.

### **Opportunities:**

The university views all weaknesses as opportunities for positive intervention. Towards that end the support to students can be expanded and extended.

- A dedicated office to redress psychological and emotional concerns of students is on the anvil. Collaboration with medical and counselling agencies are on to develop a Cell for Behavioural Intervention.
- Similarly workshops for learning methods of self-defence (particularly for girl students), awareness programmes for lifestyle modification and for basic life support, awareness programmes for crisis management are being considered.
- The growth of the Indian economy and integration with the world has brought opportunities and challenges. To make the best out of this, students have to be equipped with more transferable skills and up-to-date knowledge about their subjects. Regular and judicious changes in the curriculum so as to keep track with the needs of the day and programmes to increase transferable skills is the need to the day.

### **Challenges:**

- The greatest challenge before the university in its effort to create a globally competitive, recognised, inclusive and socially responsive academic institution.
- Finances have been a matter of concern in extending or expanding support to students. Finances not only affect immediate financial support to students but also the institutional framework dedicated to students.
- Another important challenge is to create a more balanced extra curricular-academic environment in the University. The academic reputation of the institution dwarfs the achievement in sports.
- As the university increasingly expands its horizons attracting students from across the country and the world, new issues of inclusion and cohesion will arise that need to be addressed. Moreover as foreign students and researchers come to the university their distinct concerns have to be addressed.

**Gagari Chakrabarti**  
**Dean of Students**

## SECTION B

## Profile of the University

## 1. Name and Address of the University:

Name : PRESIDENCY UNIVERSITY  
 Address : 86/1 College Street, Kolkata  
 City : Kolkata  
 Pin : 700073  
 State : West Bengal  
 Website : www.presiuniv.ac.in

## 2. For communication

Designation	Name	Telephone with STD Code	Mobile	Fax	Email
Vice Chancellor	Prof. Anuradha Lohia	O: 03322573770 R:	9836318218	O:03324412738 R:	vc@presiuniv.ac.in
Pro Vice Chancellor (s)	N/A				
Registrar	Dr. Debajyoti Konar	O: 03322410297 R:	9830250658	O: 03322410297 R:	registrar@presiuniv.ac.in
Steering Committee Co-ordinator	Prof. Joydip Mukhopadhyay	O: 033-22192636 R: 033-24622438	9432233438		jm.geol@presiuniv.ac.in Joydip17@gmail.com

## 3. Status of the University:

State University : **Yes**  
 Central University :  
 University Under Section 3 of UGC :  
 Institution of National Importance :  
 Any Other (Please Specify) : **Institute of National Eminence (UGC)**

## 4. Type of University: Unitary University

**Presidency University**

**5. Source of Funding**

- Central Government
- State Government
- Self-Financing
- Any Other (Specify)
- Research and development assistance from UGC, DST, DBT-Builder, CSIR, BRNS, Alumni & Private Fund (project-based and endowment)

**6. a. Date of establishment of the university: 07/07/2010**

**b. Prior to the establishment of the university, was it a/an**

- i. PG Centre Yes  No
- ii. Affiliated College Yes  No
- iii. Constituent College Yes  No
- iv. Autonomous College Yes  No
- v. Any other (please specify) .....

If yes, give the date of establishment 20.1.1817 ((as Hindoo College)

**7. Date of recognition as a university by UGC or any other national agency:**

	Under Section	dd	mm	yyyy	Remarks
i.	2f of UGC*	14	02	2011	Section 2f (No. F.9-23/2010(CPP-I/PU, DT. 14.2.11).
ii.	12B of UGC *	11	01	2012	F-9-23-2010(CPP-I/PU) 14.12.12
iii.	3 of UGC #				
iv.	Educational Institution of National Eminence-UGC	14	12	12	F-9-23-2010(CPP-I/PU) 14.12.12

\* Enclosed certificates of recognition mentioned above

# Enclose notification of MHRD and UGC for all courses / programmes / campus/ campuses.

^ Enclose certificate of recognition by any other national agency/agencies, if any.

**9. Has the university been recognized**

- a. By UGC as a University with Potential for Excellence? Yes  No

If yes, date of recognition : .....

- b. For its performance by any other governmental agency? Yes  No

If yes, Name of the agency ..... and date of recognition: .....

c. Does the university have off-campus centres? Yes  No

If yes, date of establishment: 13.9.2015 & date of recognition.....(The Himalayan Centre of Presidency University Dow Hill, Kurseong)

**10. Does the university have off-shore campuses?**

If yes, date of establishment ....., Yes  No   
 date of recognition : .....

**11. Location of the campus and area:**

		Location *	Campus area in acres	Built up area in sq. mts
i.	Main campus area	College Street (Urban)	14 acre+2 Acres (Boys' Hostel) +0.3 Acre Girls' Hostel	Main Campus; 24,701.29 sq m (Plinth area covered) + 2415 sq m (Hostel)
ii.	Other campuses in the	New Town Kolkata (Urban) Kurseong (Hilly Area)	10 acre 2.5 acre	Building Plan finalized Building Plan finalized
iii.	Campuses abroad			

(\* Urban, Semi-Urban, Rural, Tribal, Hilly Area, Any other (please specify) If the university has more than one campus, it may submit a consolidated self-study report reflecting the activities of all the campuses.

**12. Provide information on the following: In case of multi-campus University, please provide campus-wise information.**

<ul style="list-style-type: none"> <li>Auditorium/seminar complex with infrastructural facilities</li> </ul>	1.	700-seater Auditorium (Derozio Hall)
	2.	100-Seater Seminar hall (Acharyya JC Bose Auditorium)
	3.	40-seater Meeting/Seminar hall (Bankim Sabhagraha)
<ul style="list-style-type: none"> <li>Sports facilities</li> </ul>		
	o playground :	full size football & Cricket Ground
	o swimming pool:	No
	o gymnasium:	Yes
<ul style="list-style-type: none"> <li>Hostel</li> </ul>		
Boys' Hostel: Eden Hindu Hostel (estd. 1886)	1	Seat: 219
	2	Common room, playground, indoor games Gymnasium
	3	Libraries
	4	Guestrooms
	5	Sick-room
	6	Staff quarters

## Presidency University

*Girls' Hostel: 175th Anniversary Girls' Hostel (estd. 1992)	1	Seat: 175
	2	Common room, playground, indoor games Gymnasium
	3	Libraries
	4	Guestrooms
	5	Sick-room
	6	Staff quarters
*Working women's hostel		No
● Residential facilities for faculty and non-teaching	●	Limited quarters for non-teaching staff in the campus and in hostels
● Cafeteria	●	Three canteens in the campus
● Health centre – Nature of facilities available – inpatient, outpatient, ambulance, emergency care facility, etc.	●	Emergency health care with Calcutta Medical College and Ruby General Hospital in the city
● Transport facilities to cater to the needs of the students and staff	●	University provides transport for hostel students
● Facilities for persons with disabilities	●	Ramps, elevators, facilities for disabled in every wing, audio CDs for visually challenged students
● Animal house	●	Yes
● Incinerator for laboratories	●	As per practice
● Powerhouse	●	UPS backups for equipments and computers-servers
● Waste management facility	●	Yes

### 13. Number of institutions affiliated to the university : Not Applicable

Type of colleges	Total	Permanent	Temporary
Arts, Science and Commerce			
Law			
Medicine			
Engineering			
Others			

### 14. Does the University Act provide for conferment of autonomy (as recognized by the UGC) to its affiliated institutions? If yes, give the number of autonomous colleges under the jurisdiction of the University:

Yes  No

Number

Not Applicable



**15. Furnish the following information:**

a.	University Departments	Number	Number of Students
	• Undergraduate	15	1721
	o Post graduate	15	998
	• Research centres on the campus	1	
b.	Affiliated colleges		

**16. Does the university conform to the specification of Degrees as enlisted by the UGC?**

Yes  No

If the university uses any other nomenclatures, please specify.

**17. Academic programmes offered by the university departments at present, under the following categories: (Enclose the list of academic programmes offered)**

Programmes	Number	Programmes	Number
UG	15	Integrated PhD	
PG	18	Certificate	
Integrated Masters	Diploma		
M.Phil.		PG Diploma	
PhD	Faculty-wise 2 (Science & Humanities)	Any other (please specify)	
		Total	35

**18. Number of working days during the last academic year: 232 days**

**19. Number of teaching days during the past four academic years.**

160                                      160                                      160                                      160

(‘Teaching days’ means days on which classes were engaged. Examination days are not to be included)

**20. Does the university have a department of Teacher Education?**

Yes  No

If yes,

a. Year of establishment ..... (dd/mm/yyyy)

b. NCTE recognition details (if applicable) Notification No.: .....

Date: ..... (dd/mm/yyyy)

**Presidency University**

c. Is the department opting for assessment and accreditation separately?

Yes  No

**21. Does the university have a teaching department of Physical Education?**

Yes  No

If yes,

a. Year of establishment ..... (dd/mm/yyyy)

b. NCTE recognition details (if applicable) Notification No.: .....

Date: ..... (dd/mm/yyyy)

c. Is the department opting for assessment and accreditation separately?

Yes  No

**22. In the case of Private and Deemed Universities, please indicate whether professional programmes are being offered?**

Yes  No

If yes, please enclose approval / recognition details issued by the statutory body governing the programme.

**23. Has the university been reviewed by any regulatory authority? If so, furnish a copy of the report and action taken there upon.**

i) Reviewed by UGC peer team for the sanction of UGC-12B certificate

ii) Departments are reviewed by DST for FIST sanctions

iii) UGC peer-team reviewed performance of Geology department for CAS programme. CAS expert team reviews annual performance as per programme

These reviews resulted UGC certification, FIST grant and UGC-CAS continuation.

**24. Number of positions in the university**

Positions		Teaching faculty			Non-teaching	
		Professor	Associate Professor	Assistant Professor	Non-teaching staff	Technical staff
Sanctioned by the UGC / University / State Government						
	Recruited	11	20	114	17	
	Yet to recruit	40	0	110		
Number of persons working on contract basis		0	0	0	64	20

**25. Qualifications of the teaching staff**

Highest qualification	Professor		Associate Professor		Assistant Professor		Total
	Male	Female	Male	Female	Male	Female	
A. Permanent teachers							
DSc/Dlit	0	0	0	0	0	0	
PhD	6	5	10	7	56	36	120
M.Phil.	0	0	1	0	8	3	12
PG	0	0	2	0	7	4	13
Total(A)	6	5	13	7	71	43	145
B. Temporary teachers*							
PhD	0	0	0	0	3	2	5
M.Phil.	0	0	0	0	0	0	0
PG	0	0	0	0	0	0	0
C. Part-time teachers							
PhD							
Total	6	5	13	117	74	45	150

\*Under UGC-FRP, DST-INSPIRE programmes

**26. Emeritus, Adjunct and Visiting Professors**

Emeritus	Adjunct	Visiting	Number
2			

**27. Chairs instituted by the university:**

**State Govt sanctioned five Chair Professor positions:**

- Kabiguru Rabindranath Tagore Distinguished University Professorship in the Humanities (in the field of literature and cultural studies); Acharyya JC Bose Distinguished Professor in Natural Sciences, Swami Vivekananda Distinguished University Professorship in the Humanities (in the field of philosophy); and Netaji Subhas Chandra Bose Distinguished University Professorship in the Social Sciences (in the Fields of economics, history and/or political science), Kazi Nazrul Islam Distinguished University Professorship (in the field of Inter Cultural Dialogue and Peace).
- Two more Chair Professorships are created from Alumni endowment and from Infosys Foundation sponsorship.

## Presidency University

### Current position

Faculty/Department	Chairs instituted	Positions held
Humanities and Social Sciences	<ul style="list-style-type: none"> <li>Kabiguru Rabindranath Tagore Distinguished Professor in the Humanities (in the field of literature and cultural studies)</li> </ul>	Prof. Swapan Kumar Chakraborty (2015-)
	<ul style="list-style-type: none"> <li>Netaji Subhash Chandra Bose Distinguished Professor in the Fields of economics, history and/or political science</li> </ul>	Prof. Sajal Nag (2014-2016)
	<ul style="list-style-type: none"> <li>Paresh Chandra Chatterjee Professor of History</li> </ul>	Prof. Rupendra Kumar Chattopadhyay (2015-)
Faculty of Natural and Mathematical Sciences	<ul style="list-style-type: none"> <li>Acharyya JC Bose Distinguished Professor in Natural Sciences</li> </ul>	Prof. Sabyasachi Bhattacharyya (2014-15)
	<ul style="list-style-type: none"> <li>Infosys Chair in Economic Sciences</li> </ul>	Prof. Pulak Ghosh (2015-)

### 28. Students enrolled in the university departments during the current academic year, with the following details:

	UG		PG		Integrated Master's	M Phil	PhD		Integrated PhD	D.Lit/DSc	Certificate	Diploma	PG Diploma
	M	F	M	F			M	F					
Students													
From the state where the university is located	868	814	389	602			29	59					
From other states of India	20	19	4	3			1	20					
NRI students							0	0					
Foreign students**							0	0					
Total	888	833	393	605			30	79					
Total		1721		998				109					
Grand Total				2719									

\*M - Male \*F – Female; (\*\*Under exchange programme)

### 29. Unit cost' of education

(Unit cost = total annual recurring expenditure (actual) divided by total number of students enrolled)

(a) including the salary component = Rs. 67720 (Non-plan): Rs.92898 (Including Development Grant)

(b) excluding the salary component = Rs. 25834: Rs. 51011 (including Development Grant)

### 30. Academic Staff College : No

### 31. Does the university offer Distance Education Programmes (DEP)? : No

**32. Does the university have a provision for external registration of students?**

Yes  No

If yes, how many students avail of this provision annually?

**33. Is the university applying for Accreditation or Re-Assessment? If Accreditation, name the cycle. NA**

Accreditation : Cycle 1  Cycle 2  Cycle 3  Cycle 4

Re-Assessment:

**34. Date of accreditation\* (applicable for Cycle 2, Cycle 3, Cycle 4 and re-assessment only) NA**

Cycle 1: ..... (dd/mm/yyyy), Accreditation outcome/Result .....

Cycle 2: ..... (dd/mm/yyyy), Accreditation outcome/Result .....

Cycle 3: ..... (dd/mm/yyyy), Accreditation outcome/Result .....

Cycle 4: ..... (dd/mm/yyyy), Accreditation outcome

**35. Does the university provide the list of accredited institutions under its jurisdiction on its website? Provide details of the number of accredited affiliated / constituent / autonomous colleges under the university. NA**

**34. Date of establishment of Internal Quality Assurance Cell (IQAC) and dates of submission of Annual Quality Assurance Reports (AQAR).**

IQAC 28/04/2014 (dd/mm/yyyy)

AQAR (i) ..... (dd/mm/yyyy)

(ii) ..... (dd/mm/yyyy)

(iii) ..... (dd/mm/yyyy)

(iv) ..... (dd/mm/yyyy)

**37. Any other relevant data, the university would like to include (not exceeding one page).**

● **University Librarians**

	Name	Highest qualification	Designation	Age	Work Experience
1	B. Siva	M.Phil in LIS	Assistant Librarian	37	14 years
2	Kuheli Dutta	M.Phil in LIS	Assistant Librarian	32	6 years
3	Pritam Gurey	MLIS & M.Com	Assistant Librarian	35	9 years
4	Rabisankar Giri	AIS & M.Sc	Assistant Librarian	39	13 years
5	Sutapa Chatterjee	M.Lib. Sc. & M.Sc	Assistant Librarian	39	6 years

## Presidency University

### ● Presidency Mentor Group

The Government of West Bengal instituted a Mentor Group (PMG) in 2011 to prepare a roadmap in order to turn Presidency University into a centre of excellence. Chaired by Professor Sugata Bose MP, Gardiner Professor of Oceanic History and Affairs, Harvard University, and with Professor Amartya Sen, Lamont University Professor and Professor of Economics and Philosophy at Harvard University as Advisor to the Chair, the Mentor Group had tabled five reports by 2013. These reports have shaped the current policies and growth of the University. Professors Sen and Bose are alumni of Presidency College. The initial group included other eminent alumni / alumnae of the erstwhile College: literary scholar Sukanta Chaudhuri of Jadavpur University; physicist Ashoke Sen of Harish-Chandra Research Institute; bio-physicist Himadri Pakrasi, George William and Irene Koechig Freiberg Professor of Biology and Professor of Energy, Washington University in St Louis; statistician Rahul Mukherjee of the Indian Institute of Management, Calcutta; economist Abhijit Vinayak Banerjee, Ford Foundation International Professor in Economics at the Massachusetts Institute of Technology; economist Isher Judge Ahluwalia of the Indian Council for Research on International Economic Relations; and literary scholar Swapan Chakravorty, then Director General of the National Library. The composition of the PMG has changed since. Historian Nayanjot Lahiri of Delhi University, and bio-scientist D. Balasubramanian, Research Director, L. V. Prasad Eye Institute, Hyderabad, are now part of the PMG.

As per the Section 15 of the Presidency University Act 2010 and Section 15A of Presidency University Amendment Act 2013, the Presidency Mentor Group (PMG) acts as an advisory body for the university. The PMG recommends the State Government on issues relating to future development of the university. Many of the current developments at Presidency such as the institution of Chair Professorships, funds for professional development and research, diversity policy, cross-disciplinary syllabi such as General Education courses, merging of erstwhile departments such as those in the Biological Sciences, and recruitment policy stemmed from the recommendations of the PMG. The reports of the PMG are in the public domain, and may be read online at <http://www.pmg.org.in>

The current composition of the PMG :

1. Prof. Amartya Sen, Advisor to the Chair
2. Prof. Sugata Bose, Chairman
3. Prof. D. Balasubramanian, Member
4. Prof. Abhijit Banerjee, Member
5. Prof. Nayanjot Lahiri, Member
6. Prof. Rahul Mukherjee, Member
7. Prof. Himadri Pakrasi, Member

## CRITERION I

### Curricular Aspects

#### 1.1 Curriculum Design and Development

##### 1.1.1 How is the institutional vision and mission reflected in the academic programmes of the university?

The founding fathers of this heritage institution, in the early years of the nineteenth century, were inspired by the vision of imparting modern instructions and inculcating a secular scientific spirit among the Indian students. This institution seeks to preserve the valuable tradition of imparting an in-depth knowledge of the subject, of fostering a spirit of intellectual curiosity, and instilling in the young developing minds the radical spirit of rational inquiry - a tradition that had been the hallmark of the pedagogic style of H.L.V. Derozio, the pioneering spirit behind the Bengal Renaissance, when he served as perhaps the youngest teacher of this institution in the early decades of the nineteenth century. The effectiveness of the teaching methods adopted at Presidency has been validated over the years through the contributions of its ex-students and teachers, scattered all over the globe. The roll-call of its illustrious alumni include a Nobel Laureate, Fellows of the Royal Societies, distinguished Fellows of various National Academies, statesmen who have selflessly served the nation, litterateurs of repute who have enriched both the vernacular and English literature, and scientists who have pioneered path-breaking research which has impacted the every-day lives of millions of ordinary citizens across the world. Each year, at the beginning of the academic session, the Hon'ble Vice-Chancellor addresses the freshers to explain to them the goals and objectives of this institution and also to remind them of its rich legacy of which they are now a part.

The Presidency University curricula is designed and implemented with the objective of the university's mission and vision in mind. The course curricula have evolved from an old conservative style education to a more liberal education since the inception of the University in 2011. Such systematic and dynamic processes have been designed and implemented in consultation with all the major stakeholders of the university.

The choice and introduction of new subjects at the postgraduate and undergraduate levels are need-based, keeping in view the criteria of academic excellence at par with the front-ranking universities in the country and abroad, value-based education, service to the nation, societal demand, employability, innovation and research. Care is taken to ensure that quality assurance and enhancement remain key factors in devising or revising the curricula.

##### 1.1.2 Does the university follow a systematic process in the design and development of the curriculum? If yes, give details of the process (need assessment, feedback, etc.).

Departments enjoy full academic autonomy both in devising their courses and in course implementation. Experts of various disciplines have helped with proper guidance for planning and development of curricular aspects.

In the event of any revision of the syllabus / curriculum, the university organizes a workshop and conduct brain-storming sessions involving the faculties of the concerned departments along with invited experts of various sub-disciplines of the subject. The proposals are then placed before the Board of Studies, for ratification. The ratified curriculum is thereafter placed for formal approval before the university's Governing Board, through the respective Faculty Council.

## Presidency University

### 1.1.3 How are the following aspects ensured through curriculum design and development?

- Employability
- Innovation
- Research

The design of curricula is driven by the objective of offering the students the updated knowledge base of the concerned subjects within the ambit of the UGC guidelines. The undergraduate syllabus aims to build the foundations needed for a higher study/ specialization, while the postgraduate courses offer students the taste of research, specialization and knowledge at the frontiers of the subject. The aim is to combine a solid foundation with an infusion of modern approaches in the subject. Syllabi of several premier institutes and the recommendations of the UGC are consulted. The syllabus of UPSC, NET are also kept in mind for this purpose. To ensure marketability and scope of job opportunities for our students, the subject combination of GenEds for some 'Major' subjects are specified. On the whole, keeping an eye open for the job prospects of students, the curriculum encapsulates the modern day approaches, innovative ideas, fosters small scale research projects and encourages students to develop a thinking mind of their own.

Employability is promoted through interactions with industry experts, alumni, inbuilt components of project work and dissertation at industry in the curricula, focusing campus recruitments, guidance for NET/SET, entrepreneurship development programmes.

The elements of innovation and research are introduced through sessional papers, dissertation, regular seminars, student programmes such as subject quiz, poster competition, debate among others.

### 1.1.4 To what extent does the university use the guidelines of the regulatory bodies for developing and/or restructuring the curricula? Has the university been instrumental in leading any curricular reform which has created a national impact?

The university follows the basic framework of the UGC. The core and elective options for UG degree course are the basic elements prescribed by the regulatory authorities at national and state levels. Presidency University introduced significant innovations in introducing flexibility and broadening the horizon of general education in the undergraduate programmes. At present, two Faculties - namely, the Faculty of Natural and Mathematical Sciences and the Faculty of Humanities and Social Sciences - have a total of 15 departments under their ambit, offering 15 undergraduate and 18 postgraduate courses. Presidency University is pioneering innovative courses like the newly proposed postgraduate course in Performing Arts. We have already successfully implemented the novel concept of GenEd (i.e., General Education) courses at the undergraduate level. The present curricular design promotes intensive learning of one Major subject, along with ten modules of GenEd subjects at the undergraduate level. Replacing the earlier system of taking 'pass course' subjects, the new programme of General Education or 'GenEd' at Presidency University introduces students to a broad range of subjects being taught at the university. This programme is designed to offer them scope to transcend disciplinary boundaries and to ensure a more holistic liberal development that is in keeping with the academic traditions of the university and current international standards of research. The GenEd programme requires all undergraduate students to take 10 courses over four semesters where students of the Sciences need to take two compulsory Liberal Arts courses and vice versa.

### 1.1.5 Does the university interact with industry, research bodies and the civil society in the curriculum revision process? If so, how has the university benefitted through interactions with the stakeholders?

The departments constantly interact with stakeholders from industries through seminars, conferences, project-based student training and campus recruitment. Leaders from civil society are invited to deliver lectures on contemporary issues of society. International collaborative programmes, exchanges also help in



updating the courses. These exchanges play pivotal role in the revision of curricula periodically.

**1.1.6 Give details of how the university facilitates the introduction of new programmes of studies in its affiliated colleges.**

Being a unitary university with no affiliated colleges, this question does not arise.

**1.1.7 Does the university encourage its colleges to provide additional skill-oriented programmes relevant to regional needs? Cite instances (not applicable for unitary universities).**

Being a unitary university with no affiliated colleges, this question does not arise.

**1.2 Academic Flexibility**

**1.2.1 Furnish the inventory for the following:**

- Programmes taught on campus : 15 UG (Major), 18 PG, two PhD programmes (in Science and Arts), GenEd programmes (UG)
- Overseas programmes offered on campus : No\*
- Programmes available for colleges to choose from : NA#

*# Presidency University has signed Memorandum Of Understandings with several foreign universities of repute. The MoUs enable student exchange programmes at all levels, i.e. undergraduate, postgraduate and doctoral-postdoctoral levels. It is through these programmes that our students get a chance to visit universities abroad and pursue a part of their courses there (on a credit transfer basis), while students of international universities visit Presidency, stay here, and pursue courses offered in the campus. Currently two students from Science Po, Paris are enrolled in UG semester, four students of Geology undertook part of their Master's dissertation at Hiroshima University, and postdoctoral fellow has joined under Indo-Brazil bilateral cooperation programme in the Geology Department.*

**1.2.2 Give details on the following provisions with reference to academic flexibility**

**a. Core / Elective options**

The course design of Presidency University allows flexibility in undergraduate and postgraduate levels to students. The introduction of the GenEd programme as an alternative to the subsidiary 'pass' subjects, taken along with major subjects, is one such example. The basic concept of the GenEd courses, as a supplement to the Major course, arises from the choice and need-based option exercised by the students. On average 20% of the UG-Hons (Major) course has been made flexible and choice based. Most of the postgraduate courses incorporate writing a dissertation, and 'sessionals' have been introduced to offer the student an opportunity to apply in the practical field the theories and practices taught to them in the core subjects.

**b. Enrichment courses**

Enrichment courses are offered through special papers, projects including fieldwork based programmes, and sessional courses in the UG and PG curricula. PG curricula in addition offer enrichment through dissertation and special paper provisions.

**c. Courses offered in modular form**

In keeping with the recent trends in the development of every subject, Presidency University has adopted a modular course structure in the final semesters of the PG courses predominantly, though in subjects like Bioscience, History, Geography, English etc., modular course curriculum is adopted in the final years of the undergraduate streams too. It is the choice of the students to select any one of the modules

## Presidency University

available to them from a basket of courses. Such modular based approach not only enhances an in-depth knowledge of a particular subject but also provokes the mind to think deeper and exposes the student to the recent advances in the subject.

### **d. Credit accumulation and transfer facility**

The grading system has the flexibility to accommodate the credit transfer facility of the student if the student undertakes any course of studies outside the university, subject to the condition that the course(s) studied off-campus needs to be certified by the competent authority within the Faculty as commensurate to the course curriculum of the University. This process is in place at all levels: undergraduate, postgraduate and PhD level courses.

### **e. Lateral and vertical mobility within and across programmes, courses and disciplines**

Provisions have been laid down for flexibility in lateral and vertical mobility within and across programmes, courses and disciplines, an important essence of liberal education which is the basic philosophy of the teaching learning process of the university. Students of social sciences have switched courses from their undergraduate level to the postgraduate level in the past few years. Vertical mobility is ensured through UG-PG and PhD programmes in all disciplines

### **1.2.3 Does the university have an explicit policy and strategy for attracting international students?**

The different Memorandum Of Understandings signed between Presidency University and the foreign universities have clearly outlined the initiative of Presidency University to attract young and bright minds from reputed international institutes. In such an endeavour, Presidency University has provisions to offer them the much needed visa recommendations. To facilitate such exchanges, the University authorities aid the foreign nationals in arranging for their local hospitality and transport. Such students are free to select their courses upon the faculties' recommendation, which cuts across the otherwise regular course structure followed by the Indian students. All these point to the fact that Presidency is willing to provide the best of teaching and guidance to the international students who come to study in its campus.

### **1.2.4 Have any courses been developed targeting international students? If so, how successful have they been? If 'no', explain the impediments.**

Course content has been made comparable with international standard. In some instances, these have cut across barriers of discipline, otherwise maintained for the Indian students. For example, students from Sciences Po, France, visiting the campus in the odd semester of the 2015-2016 academic session were offered courses from Political Science, Sociology and History Major, unlike the Indian students who have to do a Major in any one subject alone.

### **1.2.5 Does the university facilitate dual degree and twinning programmes? If yes, give details.**

At present there is no provision for dual degree programmes within the University rules. It is worthwhile to mention here that some of the PhD coursework programmes match with some of the modules of the final semester of the Master's degree programme for subjects like Geology, Geography, English, Bengali and other subjects. Hence such programmes are twinned and linked to each other.

### **1.2.6 Does the university offer self-financing programmes? If yes, list them and indicate if policies regarding admission, fee structure, teacher qualification and salary are at par with the aided programmes?**

Presidency University is a state aided university with the objective of enhancement of learning within state controlled measures/ policies. There is no provision for self-financing courses at the undergraduate and postgraduate levels, as yet.

**1.2.7 Does the university provide the flexibility of bringing together the conventional face-to-face mode and the distance mode of education and allow students to choose and combine the courses they are interested in? If ‘yes,’ give operational details.**

Presidency University teaching-learning process is essentially classroom oriented with at least four classes held per week for a course of 4 credits over an entire semester. Generally speaking, a semester has 16 weeks of teaching. Presidency University has strictly adopted means to ensure that there is a minimum attendance of 75% of the class lectures for the students to be able to sit for the End-Sem examination. However, beyond the class hours, there are provisions for tutorials and discussion sessions for the students which enable them to interact with the faculty on a one-to-one basis. Recently, the web based Learning Management Software (Moodle) has been introduced and online course management, student interaction and continuous evaluation have been initiated.

**1.2.8 Has the university adopted the Choice Based Credit System (CBCS)? If yes, for how many programmes? What efforts have been made by the university to encourage the introduction of CBCS in its affiliated colleges?**

The university has adopted a credit-based-grading-system for the purpose of assessment of the students, which will be acceptable to the global universities (such as European Credit Transfer System ECTS, National Qualifications Framework’ in Australia, the Pan-Canadian Protocol on the Transferability of university Credits, the Credit Accumulation and Transfer System (CATS) in the UK, as well as the systems operating in the US, Japan). Such a choice-based credit system is in practice for all programmes at UG and PG levels. The CBCS has been in full operational for the UG GenED courses, where students can choose ten courses from a wide options of more than 60 courses in four semesters. CBCS is introduced at UG and PG major programmes through special papers, sessional and dissertation modules.

**1.2.9 What percentage of programmes offered by the university follow:**

- Annual system
- Semester system
- Trimester system

All the degree programmes of Presidency University run on a semester-based system, with two semesters in every academic year: odd semester which spans from July to December and the even semester which spans from January to June.

**1.2.10 How does the university promote interdisciplinary programmes? Name a few programmes and comment on their outcome.**

At the undergraduate level, the inter-disciplinary courses are represented by the GenEd programme which often cuts across traditional disciplinary boundaries. Examples are the course on the ‘Joy of Numbers’ by the Department of Mathematics for students from the Humanities and Social Sciences, or the ‘Shakespeare for Everyone’ course offered by the Department of English, as well as certain courses taught jointly by faculty of two Departments e.g. the ‘Space, Time and Universe’ course taught by faculty members of the Departments of Physics and English.

Presidency University has also successfully and innovatively combined the earlier distinct disciplines of Botany, Zoology and Physiology into an integrated programme in ‘Biological Sciences’ - at both undergraduate and postgraduate levels. This is proving to be a very valuable reform which is in keeping with the best international practice today.

## Presidency University

At the PhD level, the research interests of our first batch of students already reveal the inter-disciplinary thrust that is characteristic of modern scholarship. Some of these students, after they satisfactorily complete the mandatory taught course-work, may require joint supervision from faculty members of two or more departments. This is certainly a healthy sign and augurs well for the future of academic research.

### 1.3 Curriculum Enrichment

#### 1.3.1 How often is the curriculum of the university reviewed and upgraded for making it socially relevant and/or job oriented / knowledge intensive and meeting the emerging needs of students and other stakeholders?

The old course structure of erstwhile Presidency College has undergone two major modifications since 2011. It is now generally proposed that curriculum shall be reviewed in every three-year as per the recommendation of the respective Board of Studies. In some cases, if it is felt that such a curriculum needs some minor alterations or modifications, then such changes are made by passing them through the Board of Studies, Faculty Council, and finally the Governing Board.

#### 1.3.2 During the last four years, how many new programmes at UG and PG levels were introduced? Give details.

- Inter-disciplinary
- programmes in emerging areas

The Biological Science UG and PG degree programmes have been introduced with inputs from fundamental life science curricula of Botany, Zoology and Physiology in the erstwhile Presidency College. The Biological Science course also integrates with biochemistry, statistics and physics. Environmental Science, which forms a compulsory course at the undergraduate level, is another example of an interdisciplinary course pursued in the campus. Programmes such as a degree course in Performing Arts will be implemented in 2016, keeping in mind the need for such courses and the development of qualified manpower in the area. PhD programmes in Environmental Science involves interdisciplinary specializations particularly from Chemistry, Earth Sciences, and Biological Sciences.

#### 1.3.3 What are the strategies adopted for the revision of the existing programmes? What percentage of courses underwent a syllabus revision?

In the event of any revision of any existing programmes, the university organizes workshops and holds brainstorming sessions involving the faculties of the concerned departments along with invited experts of various sub-disciplines of the subject. The proposals are then placed before the Departmental Academic Committee, at present re-constituted as the Board of Studies, to be ratified. The ratified curriculum is then placed for approval at the respective Faculty Council meeting. Finally, it receives the formal seal of approval from the University's Governing Board, before implementation. It is to be noted that all the departments were asked to revise their course curriculum in 2013. Thereafter, the Departments of Biosciences, History, Chemistry and Mathematics have opted for further revisions in 2015.

#### 1.3.4 What are the value-added courses offered by the university and how does the university ensure that all students have access to them?

Value-added courses are offered through several UG GenED programmes such as modules in social sciences, computer applications, foreign languages (French and German), project works at PG levels and dissertation. Personality development programmes for students were organized with British Council in 2011-12. Periodically orientation programmes are arranged for newly introduced library software.

**1.3.5 Has the university introduced any higher order skill development programmes in consonance with the national requirements as outlined by the National Skills Development Corporation and other agencies?**

There is no skill development programme as stipulated by national agencies. However, the UG and PG curricula have inherent skill development components through practical courses in case of Natural and Social Sciences, sessional papers in Humanities and Mathematical sciences. 40% of the total weightage in the curriculum is skill oriented.

**1.4 Feedback System**

**1.4.1 Does the university have a formal mechanism to obtain feedback from students regarding the curriculum and how is it made use of?**

Presidency University believes that the academic exercise involved in the curriculum design is done with the larger goal of making our students academically competitive and market oriented. Therefore the students' feedback is an integral and indispensable part of the entire process. A teacher-student committee in every department periodically assesses the need of the students particularly in curricular aspects of respective modules. A central committee was set up to look into the details of this feedback system and, after several meetings, the committee proposed a questionnaire that would bring out the opinion of the students regarding the taught courses. The questionnaire was handed out to the students of every department, for every paper/module, for them to express their views. The anonymity of the feedback was maintained. The results of the students' feedback were then analysed by an independent and anonymous external agency. Later, a summary of the results was presented at a meeting with all Heads of departments.

**1.4.2 Does the university elicit feedback on the curriculum from national and international faculty? If yes, specify a few methods such as conducting webinars, workshops, online discussions, etc. and its impact.**

The university has invited renowned academicians over the last few years at departmental and university-level programmes. The discussions held with such eminent academicians have helped frame the course curricula, both in its broad design and in the detailed course content. The faculty is in constant touch with stalwarts in the concerned fields in order to seek their opinion in critically evaluating the courses and incorporating suggestions into the teaching-learning process. As it would be evident from the seminars and conferences organized at the university, each department is constant touch with experts in different fields and frontiers of research. The inputs are adopted either during syllabus revision or more consistently in the sessional and dissertation papers in areas of contemporary research. It may be worth mentioning here that every proposed change in syllabus is vetted first by the Board of Studies of the concerned department and then by the Faculty Council. Both the Board of Studies and the Faculty Council are academic bodies which include Experts in the field, some at the national level.

**1.4.3 Specify the mechanism through which affiliated institutions give feedback on curriculum enrichment and the extent to which it is made use of.**

Being a unitary university with no affiliated colleges, this question does not arise.

**1.4.4 What are the quality sustenance and quality enhancement measures undertaken by the university in ensuring the effective development of the curricula?**

The departments try to ensure that their curriculum keeps abreast of the latest developments in the field and that it is comparable in scope and content with the curriculum of some of the best institutions across the country. The statutory mechanism of quality sustenance exists through periodic assessment at Board of Studies, Faculty Councils and Governing Body.

## **Presidency University**

Although we are a very young university - our independent BA and MA programmes being only two/three years old - several departments have already voluntarily undertaken a review of their existing syllabi (by organizing syllabus workshops with external experts) with the aim to modernise the curriculum. We remain committed to a constant process of self-review so that our curriculum does not become stale or dated but retains its essential vibrant and dynamic quality.

Many departments undergo external review of curricular aspects by national agencies. Most of the Science departments are periodically reviewed by DST for the FIST programmes. The Department of Geology is annually reviewed by the UGC experts under the UGC-CAS programme. Biological Sciences programmes are also assessed through the DBT-Builder programme.

## CRITERION II

### Teaching-Learning and Evaluation

#### 2.1 Student Enrolment and Profile

##### 2.1.1 How does the university ensure publicity and transparency in the admission process?

The university advertises the admission tests for its undergraduate, postgraduate and PhD programmes on its website. It has also increased its catchment area by having test centres in various locations in West Bengal, Assam and Tripura for the Undergraduate Admission Test.

The university has also evolved a transparent and objective admission test by giving the responsibility of administering the admission test for the Undergraduate programme (B.A. and B.Sc.) to the West Bengal Joint Entrance Examination Board from 2015. The applicants for admission to Physics, Chemistry, Biology and Mathematics Honours courses have to take the Common test (PCM) as well as tests for the respective subjects. Applicants for Geology take the Common test (PCM), while applicants for Geography and Statistics have a subject test. Applicants for the English Honours course have the English objective online test followed by an additional subjective written test. The tests which follow the Multiple Choice Question format are administered online, thereby making the admission system objective.

The admission tests for the Postgraduate programmes (M.A. and M.Sc.) are also administered by the West Bengal Joint Entrance Examination Board. The departments offer Multiple Choice type tests as well as written tests for departments like History, Hindi, Sociology and Statistics. Departments like Bengali, English and Geography have a two tiered test, having both an MCQ type test and a subjective written test. The criteria for evaluating the written tests are also meticulously discussed by faculty at the meetings of the Admission Committee (a statutory body) before the actual evaluation of exam scripts. This diversity of evaluation methods ensures the fairness of selection.

##### 2.1.2 Explain in detail the process of admission put in place by the university. List the criteria for admission: (e.g. : (i) merit, (ii) merit with entrance test, (iii) merit, entrance test and interview, (iv) common entrance test conducted by state agencies and national agencies (v) other criteria followed by the university (please specify).

###### **Undergraduate Programme (B.A. /B.Sc.)**

The university has evolved a fair and accurate means of selecting candidates through an admission process which considers merit, but is not solely centred around the percentage of marks obtained at the class 12 Board Examinations. Admission to the undergraduate programme is based both on merit and the result of the entrance test (category (ii)). Eligibility for admission tests are decided by the departments individually and are determined by the aggregate of marks obtained in the Board Examinations. For certain departments, the percentage of marks obtained in certain subjects in the +2 Board Examinations is also taken into account, e.g. the department of Bengali requires an aggregate of 60% and 66% in Bengali for an aspiring candidate to be allowed to sit for the admission test; the department of Physics requires 80% in aggregate and 80% in Physics, whereas departments like History and Sociology require an aggregate of 70%. The Aggregate marks (of the top four subjects, excluding Environmental Science/Education) obtained at the +2 level Board examination and the marks obtained in the respective admission tests (except in the case of the department of Hindi) are both taken into consideration. The form of the admission tests vary. For most departments - with the exception of Bengali, History and Political Science which have written tests—the tests are of the MCQ format.

## Presidency University

The tests are administered online by a state agency, the West Bengal Joint Entrance Examination Board. Some departments, like the Departments of Physics, Chemistry, Biology, Geology and Mathematics, have a common entrance test for their Honours courses with questions from Physics, Chemistry and Mathematics. Some subjects have an aptitude test with questions from more than one discipline, eg. the Economics test has questions in Mathematics and English. The guidelines for the admission test, and sometimes sample questions, are also published on the university website making the admission procedure more transparent. Candidates who qualify for more than one subject are allowed to express their choice during the counselling session on the date of admission.

**Table 1: Eligibility Criteria for the Admission Tests**

SI No	Department	Mode of test	Eligibility (Aggregate* and Individual Subject)
1	Bengali	Written	60% in aggregate and 65% in Bengali
2	Biological Sciences	MCQ	75% in aggregate with Physics & Chemistry + (Maths or Stat) + Biology
3	Chemistry	MCQ	80% in aggregate (with Physics, Chemistry and Mathematics) and 80% in Chemistry
4	Economics	MCQ	80% in aggregate and 80% in Maths (not Business Maths), and 70 % in English
5	English	Both	80% (Arts) OR 85% (Sci/Com) in aggregate and 75% in English or 65% in Eng-A (WBHS)
6	Geography	MCQ	75% in aggregate with any 3 of 11 subjects (Phys, Chem, Maths, Bio, Stat, Eco, PolSc, Socio, History, Geography, Geology)
7	Geology	MCQ	70% in aggregate with Physics, Chemistry and Mathematics
8	Hindi	--	60% in aggregate and 60% in Hindi
9	History	Written	70% in aggregate
10	Mathematics	MCQ	75% in aggregate and 80% in Mathematics
11	Philosophy	MCQ	60% in aggregate and 65% in English
12	Physics	MCQ	80% in aggregate and 80% in Phys + Maths combined
13	Political Science	Written	70% in aggregate
14	Sociology	MCQ	70% in aggregate
15	Statistics	MCQ	75% in aggregate and 80% in Maths or Stat

*Note: \* "Aggregate" implies the sum of the marks obtained in the best four subjects at the last examination, excluding Environmental Education.*

### **Postgraduate Programme (M.A./M.Sc.)**

The dates and details of the admission tests to the postgraduate programmes are published on the university website. Up to 60% of the PG seats in the respective departments are occupied through the direct admission of the candidates from Presidency University, who have obtained CGPA equal to or above the cut-off grades of 6.5 (if they had Bengali, English, Hindi, History, Geography, Philosophy, Political Science and Sociology as their Major subject) and 7.5 (if they had Biological Sciences, Chemistry, Applied Economics, Applied Geology, Mathematics, Physics and Statistics as their Major subject).

Admission to the postgraduate programme is therefore determined by both merit and written test (category



(ii) as per the question 2.1.2). After the seats for direct admission are filled by eligible candidates from Presidency University, the remaining seats in each category (General/ SC/ST/OBC- A/OBC-B) are occupied by candidates from the merit list of that particular subject, based on the marks obtained in the admission test (2 hours, 100 marks) for each subject. From 2015, this admission test is being administered by a State agency, the West Bengal Joint Entrance Examination Board at test centres across Kolkata and one in Siliguri.

The publication of admission procedures in the university website and the administration of the test online and at multiple centres has made the system of admission an objective, transparent, unbiased and efficient one, which selects eligible students based on their aggregates and knowledge of the discipline they have applied for.

**2.1.3 Provide details of admission process in the affiliated colleges and the university's role in monitoring the same.**

Being a unitary university with no affiliated colleges, this question does not arise.

**2.1.4 Does the university have a mechanism to review its admission process and student profile annually? If yes, what is the outcome of such an analysis and how has it contributed to the improvement of the process?**

The university has reviewed the admission process and student profile to evolve a more effective admission process that can reach out to a larger pool of talented students. Prior to the admission test of 2015, the UG and PG admission tests were conducted within the premises of Presidency University, with additional centres in Siliguri and Delhi.

As an outcome of the analysis of this process, the university decided to give the responsibility for the administration of the exam to a state level government body, the West Bengal Joint Entrance Examination Board, to ensure a greater reach of students across West Bengal in the various districts and also in other adjoining states. This decision has also made the admission process more objective and efficient.

**2.1.5 What are the strategies adopted to increase / improve access for students belonging to the following categories:**

- SC/ST
- OBC
- Women
- Persons with varied disabilities
- Economically weaker sections
- Outstanding achievers in sports and other extracurricular activities

The university follows the Government-stipulated policies of reservation as stated in the West Bengal State Higher Education Institutions (Reservation in Admission) Act, 2013, and the West Bengal State Higher Education Institutions (Reservation in Admission) Rules, 2014, for the admission of SC/ST/OBC-A/B candidates.

The norms of merit relaxation for candidates from SC/ST/OBC-A/B are strictly followed and are published on the Presidency University website.

A limited number of merit-cum-means scholarships and free studentships are available for the deserving and meritorious students whose parent's/guardian's monthly income does not exceed Rs. 25,000/- per annum. The payment of scholarships is governed by the rules of the University.

## Presidency University

A number of 'Sheela Kanoria Foundation Scholarships' (of the value of Rs. 2000/- per month) are available for disadvantaged female students to encourage them to study. A limited number of 'Happy Calcuttans Scholarships' (of the value of Rs. 800/- per month) are available for the undergraduate students. The scholarships are awarded on the basis of merit.

### 2.1.6 Number of students admitted in university departments in the last four academic years:

Categories	Year -1		Year 2		Year 3		Year 4	
	M	F	M	F	M	F	M	F
SC	78	40	76	60	92	71	102	77
ST	15	10	15	7	16	8	17	7
OBC	0	0	0	0	32	16	30	28
General	334	549	388	487	355	455	349	487
Others	0	0						
Total	427	599	479	554	495	550	498	599
	1026		1033		1045		1097	

### 2.1.7 Has the university conducted any analysis of demand ratio for the various programmes of the university departments and affiliated colleges? If so, highlight the significant trends explaining the reasons for increase / decrease.

Academic year/ programmes	No Applications	Number admitted	Demand ratio
2015-16 UG	14621	594	1: 24
PG	6120	503	1: 12
2014-15: UG	22201	557	1: 39
PG	8041	491	1:16.
PhD	510	109	1:5
2013-14: UG	19738	531	1:37
PG	5471	460	1:11

### 2.1.8 Were any programmes discontinued/staggered by the university in the last four years? If yes, please specify the reasons.

The 'Extra-Departmental' (or ED) programme for undergraduate honours students was overhauled in 2013 to develop a more interdisciplinary, vibrant General Education (or GenEd) programme. This overhaul implies restructuring of the marks allocated to each course opted for by the students. The courses were designed by all the departments of the university, keeping in mind the needs of the students from other disciplines. This GenEd programme is designed to teach them to transcend disciplinary boundaries and to ensure a more holistic liberal development that is in keeping with the academic traditions of the university and the current international standards of research. The GenEd programme requires all undergraduate students to take 10 courses, over the first four semesters, where students of the Sciences need to take two compulsory Liberal Arts courses and vice versa. The earlier programme was restructured with meticulous detail and ingenuity to develop courses like the 'Joy of Numbers' offered by the Department of Mathematics for students from the Humanities and Social Sciences, or the 'Shakespeare for Everyone' course offered by the Department

of English, as well as certain courses taught jointly by faculty members of two departments e.g. the ‘Space, Time and Universe’ course taught by faculty members of the Department of Physics and English. In addition, certain courses are also offered for students with only a Natural Science background - such as Economic Botany by the Department of Biological Sciences. The restructuring of the earlier ED programme was therefore imperative to forge this interdisciplinary academic engagement among undergraduate students of Presidency University.

## 2.2 Catering to Student Diversity

### 2.2.1 Does the university organize orientation / induction programme for freshers? If yes, give details such as the duration, issues covered, experts involved and mechanism for using the feedback in subsequent years.

The university organizes a pre-admission counselling (one was organized in 2014) where the VC/Dean addresses the students who have an admission offer. The students are then advised by the individual departmental faculty, on career options and learning goals.

After formal admission, there is an address by the Vice-Chancellor, followed by a departmental orientation programme. The students are introduced to the faculty members and their faculty class mentor. The overall aim and objective of the programme is personal interaction between students and faculty, and this is followed by a discussion session.

After admission, a GenEd fair is conducted by the university GenEd cell where the students are introduced to the GenEd programme. Heads of individual departments, or the departmental GenEd Coordinators, give a brief description about the courses offered. The students are encouraged to talk with their faculty mentors and departmental GenEd Coordinator regarding choice of courses.

The university organizes public lectures on academic ethics, code-of-conduct etc. We recently had a public lecture by Ruchira Goswami which was meant to sensitize the students to the grim reality of the sexual/economic exploitation of young girls in our society. The ‘Presidency University Cell Against Sexual Harassment’ occasionally organizes poster competitions and invited talks, in its effort towards gender sensitization.

Some faculty members, at an individual level, organize informal discussion sessions with students on professional development and career options. For example, in the Physics department, it is routinely done at individual faculty level.

### 2.2.2 Does the university have a mechanism through which the “differential requirements of the student population” are analysed after admission and before the commencement of classes? If so, how are the key issues identified and addressed?

The mechanism for addressing the differential needs of students gets implemented at the individual department and faculty level. Many departments hold tutorial sessions where problem solving and discussions of lectures are conducted in small groups. These tutorials are meant to increase interaction between faculty and students. The tutorial groups and classes are designed in a way so that faculty members can address the diverse needs of students.

As per the rule of the state government, we have a reservation of 40% seats in our Masters programme for candidates from other universities. These students come from diverse backgrounds and, as a result, the Masters curriculum is designed in a way to meet the needs of students from diverse backgrounds. Introductory lectures are arranged by the departments/ faculty members to homogenize the knowledge level of the class before teaching more advanced topics.

Our GenEd programme is specifically designed to meet the needs of a diverse set of students. We design

## Presidency University

science courses (e.g., 'Space, Time and the Universe' -PHYS-131) for Humanities students and similarly we devise Humanities courses for students who are majoring in the sciences (e.g., 'Digital Humanities' - ENG-231) and the students can opt for these courses to fulfill the needs of the curriculum.

In several courses, assignments or examinations are designed on the basis of differential needs. For example, optional harder problems in the assignments are set for the more advanced students. Special projects and term papers are also designed for advanced students which do much more justice to their capabilities compared to sit-down exams.

### **2.2.3 Does the university offer bridge / remedial / add-on courses? If yes, how are they structured into the time table? Give details of the courses offered, department-wise/faculty-wise?**

Remedial aspects of the syllabus are incorporated within different courses. This is particularly carried out in the case of PG courses. In addition, we assign reading groups and peer discussion groups to bridge the learning gaps between students. For example, students from senior classes are assigned to tutor juniors in summer or during the semester. (This has been successfully done in the case of the Computational Physics course in the department of Physics)

We offer 'English language' classes for UG-1 and UG-2 students which help them bridge the gap of language barrier. However, we wish to emphasize that we do not officially call them 'remedial courses' since it can affect the confidence and performance levels of the students.

### **2.2.4 Has the university conducted any study on the academic growth of students from disadvantaged sections of society, economically disadvantaged, physically handicapped, slow learners, etc.? If yes, what are the main findings?**

No.

### **2.2.5 How does the university identify and respond to the learning needs of advanced learners?**

The University does not have a well-defined mechanism but at the individual level, faculty try to find a measure of the learning capabilities of students through class tests, assignments etc. For advanced learners, harder problems that involve deeper analytical and logical thinking, the writing of a dissertation, term paper, research project etc. are assigned. The exceptionally bright students who aspire to go abroad for higher studies are carefully nurtured and mentored by individual faculty members, purely on an informal personal basis.

## **2.3 Teaching-Learning Process**

### **2.3.1 How does the university plan and organize the teaching, learning and evaluation schedules (academic calendar, teaching plan, evaluation blue print, etc.)?**

The university publishes the academic calendar on its website, including the dates for the End-Sem exams. All departments publish their UG and PG syllabi on their departmental websites. Following an elaborate admission process that is conducted nationally, students are admitted to our UG and PG programmes. The syllabus and curriculum gets ratified through the departmental 'Board of Studies' and they are periodically upgraded based on the needs of the students and the development of the discipline.

All teaching assignments are ratified through the 'Board of Studies' of the respective department and the teaching load is allocated based on UGC recommendations and faculty workload.

### **2.3.2 Does the university provide course outlines and course schedules prior to the commencement of the academic session? If yes, how is the effectiveness of the process ensured?**

All courses and syllabi of courses are published online. Individual weekly teaching plans are often put up by

faculty members on the departmental notice boards. Lists of suggested reading are often handed out in class at the commencement of the course.

For the choice-based GenEd courses, the university maintains an online enrollment system where students register for GenEd courses based on their choices. The GenEd enrollment is processed and monitored through the GenEd cell.

**2.3.3 Does the university face any challenges in completing the curriculum within the stipulated time frame and calendar? If yes, elaborate on the challenges encountered and the institutional measures to overcome these.**

Due to the elaborate UG and PG admission process, the university had to shorten its teaching period in the 'Odd' semester and, as a result, there were some difficulties regarding completion of syllabus. However, in most departments, additional classes were held to overcome this challenge in order to ensure that students did not face any problem in tackling End-Sem Exams and professional competitive exams.

**2.3.4 How is learning made student-centric? Give a list of participatory learning activities adopted by the faculty that contributes to holistic development and improved student learning, besides facilitating life-long learning and knowledge management.**

1. Choice-based GenEd programme.
2. Designing of courses based on the differential needs of students so that students can take courses across disciplines. The GenEd programme is completely unique and has not been introduced anywhere else in India. The main goal of the programme is to offer a comprehensive liberal arts education to the students.
3. We provide a window (of one month) within which students can change their GenEd choices. Students are given the opportunity to sit in classes, audit the lectures, and then to commit their final choices.
4. Regular tutorial classes are organized in several departments.
5. The lab courses in the science departments are designed to include some open-ended problems and design of experiments.
6. Several instructors use course-web and encourage the participation of students. Students are encouraged to ask questions and voice their own interpretations in class so that the class-room lecture does not remain a monologue but becomes truly a dialogue – a free exchange of ideas.
7. Students are taken to national labs, research institutes for more exposure.
8. In many departments, students are engaged in intensive field-work for coursework or dissertation.
9. In our UG Major curriculum, the option of elective courses/modules and directed studies helps students to make a choice-based selection and also to get directly involved in research. This is specifically done to bridge the gap between class-room teaching and real research.
10. The PG specializations, elective courses and dissertation are places where students have the option to choose and nurture their individual potentials/interests.

**2.3.5 What is the university's policy on inviting experts / people of eminence to deliver lectures and/or organize seminars for students?**

1. Different departments organize seminars, workshops, invited talks, on a regular basis. In the Physics department, weekly research colloquiums are organized where student participation is strongly encouraged. Please see the list in Annexure.
2. The university organizes extensive public lectures. List of public lectures organized so far are provided.

## Presidency University

3. Students participate and give oral, poster, and power-point presentations at regional, national and international conferences.
4. Students invite eminent speakers and organize lectures, seminars, workshops. These activities are encouraged to enhance academic leadership and intellectual nourishment among students.

### **2.3.6 Does the university formally encourage blended learning by using e-learning resources?**

The university strongly encourages e-learning. Every department has at least one classroom that has audio-visual facility. Several faculty use audio-visual facilities to teach courses. The library provides e-learning resources and also there are e-classrooms where many of the language courses (English, French and German) and other courses with an audio-visual content (e.g. a module on 'Literature and Film') are taught.

### **2.3.7 What are the technologies and facilities such as virtual laboratories, e-learning, open educational resources and mobile education used by the faculty for effective teaching?**

Faculty members make extensive use of the e-classroom, audio-visual rooms, course websites, and library e-resources. (For a list of the available library e-resources, please see Annexure). Recently the Physics department organized a teaching-learning workshop on classroom clicker systems which we have plans to incorporate in near future.

### **2.3.8 Is there any designated group among the faculty to monitor the trends and issues regarding developments in Open Source Community and integrate its benefits in the university's educational processes?**

Faculty, at the individual level, use the Massive Open Online Courses (MOOC) and Edx facilities along with open course materials to enrich their syllabus, assignments, lecture plans etc. Students are also encouraged to take part in these open courses. Courses are also specifically designed in a way that enhances e-learning and integrates learning through social networks and other media resources. The best example of this is the 'Digital Humanities' English GenEd course. The library community and the IT community take an active part in many such activities.

### **2.3.9 What steps has the university taken to orient traditional classrooms into 24x7 learning places?**

Class-website, e-learning resources, take-home assignments, take-home exams, Facebook user groups (e.g., departmental groups, tutorial groups) keep students engaged with the teaching-learning process outside the classroom hours. Skype lectures, use of mobile-phone apps etc. ensure that learning is not confined either spatially or temporally.

### **2.3.10 Is there a provision for the services of counsellors / mentors/ advisors for each class or group of students for academic, personal and psycho-social guidance? If yes, give details of the process and the number of students who have benefitted.**

Every department has a 'Student-Teacher Committee' that meets every month. Moreover, every class has faculty class mentors. In addition to this, faculty members at the individual level engage in informing discussion groups, professional development seminars and encourage students in taking leadership roles. There is a dedicated cell run by the Dean of Students that offers counselling services. In special cases, a student may be referred to a specialist counsellor recommended by the university authorities.

### **2.3.11 Were any innovative teaching approaches/methods/practices adopted/put to use by the faculty during the last four years? If yes, did they improve learning? What were the methods used to evaluate the impact of such practices? What are the efforts made by the institution in giving the faculty due recognition for innovation in teaching?**

1. Peer evaluation process by students. Often students are encouraged to critique papers presented by their own classmates at student seminars.

2. Integrating class-room teaching with research.
3. Visiting research labs, other professional/academic organizations as part of class-room activity and for greater exposure.
4. Assigning tutors from senior classes to tutor junior classes.
5. Term paper presentations where students are required to defend their argument and field questions from both students and faculty members.
6. Interactive tutorial sessions which give students the opportunity of clearing doubts in a more cozy and personal atmosphere.
7. Use of tutorials that are designed to address burning issues in modern education research. See Annexure for example of such tutorials.

Most of these measures appreciably boosted the confidence of the students, both in terms of extending their domain knowledge and in their ability to speak extempore in public.

**2.3.12 How does the university create a culture of instilling and nurturing creativity and scientific temper among the learners?**

Students are actively encouraged to write a dissertation, undertake independent research projects, participate in creative writing classes/competitions, engage in the publication of departmental journals (e.g. Department of Geology), organize the ‘ChemiQuiz’ (in the Department of Chemistry), work collectively to stage plays (e.g. ‘Copenhagen’, a Quantum Mechanics themed play, organized by the Department of Physics).

**2.3.13 Does the university consider student projects mandatory in the learning programme? If yes, for how many programmes have they been (percentage of total) made mandatory?**

Projects are mandatory as part of the UG and PG curriculum through directed study, summer programmes, independent study, field work, dissertation, term paper etc.

- Number of projects executed within the university
- Names of external institutions associated with the university for student project work
- Role of faculty in facilitating such projects

Student projects are all supervised and evaluated by respective faculty members who have a specialization in that particular area. Apart from formal supervision, faculty freely interact with students in discussion sessions, thus providing them valuable mentoring.

**2.3.14 Does the university have a well qualified pool of human resource to meet the requirements of the curriculum? If there is a shortfall, how is it supplemented?**

Each department has sanctioned posts for faculty positions. Many of these posts have been filled up by highly qualified faculty members who have come from some of the best institutions within the country and also from abroad. This process of recruitment is still ongoing. The shortage is addressed by appointing Guest Lecturers, especially in areas of specialization.

**2.3.15 How are the faculty enabled to prepare computer-aided teaching/ learning materials? What are the facilities available in the university for such efforts?**

The university has a centralized computer lab, and audio-visual devices in many classrooms. Every faculty member has a yearly FRPDF grant through which they can purchase computers/printers/scanners. The university provides wi-fi access to every faculty member and this facility is being extended to the students as well.

## Presidency University

### 2.3.16 Does the university have a mechanism for the evaluation of teachers by the students / alumni? If yes, how is the evaluation feedback used to improve the quality of the teaching-learning process?

The university introduced student feedback questionnaires and the results of the student feedback (obtained from the analysis by an external agency) were summarized by the Controller of Examinations (through pie-charts, graphs and tables) and were presented to the Heads of Departments. However, given the logistic burden of paper questionnaires, the idea was mooted that students' feedback should be taken online, preserving their anonymity. Some departments and individual faculty members take student feedback on a regular basis, on their own personal initiative. The process of implementing a revised university-wide student feedback is ongoing. Samples of the student feedback form used by the university and by the Physics department are enclosed in the Annexure.

## 2.4 Teacher Quality

### 2.4.1 How does the university plan and manage its human resources to meet the changing requirements of the curriculum?

The vacancies in the sanctioned posts for every department are advertised on the university website. The Board of Studies proposes the sub-fields in which hiring should be done in order to fill the gaps in faculty specialization. The Board of Studies also proposes the names of external subject experts to serve on the interview board during the process of recruitment/selection. The faculty members regularly attend national and international conferences, workshops etc., and UGC funded Orientation Programmes and Refresher Courses. Several departments themselves organize 'Teaching-learning workshops', symposiums, conferences etc., to get exposed to the growing needs of the discipline and to keep themselves updated about the latest developments.

### 2.4.2 Furnish details of the faculty

Highest qualification	Professor		Associate Professor		Assistant Professor		Total
	Male	Female	Male	Female	Male	Female	
A. Permanent teachers							
DSc/Dlit	0	0	0	0	0	0	
PhD	6	5	10	7	56	36	120
M.Phil.	0	0	1	0	8	3	12
PG	0	0	2	0	7	4	13
<b>Total(A)</b>	<b>6</b>	<b>5</b>	<b>13</b>	<b>7</b>	<b>71</b>	<b>43</b>	<b>145</b>
B. Temporary teachers*							
PhD	0	0	0	0	3	2	5
M.Phil.	0	0	0	0	0	0	0
PG	0	0	0	0	0	0	0
C. Part-time teachers							
PhD							
M.Phil.							
PG							
Total	6	5	13	117	74	45	150



**2.4.3 Does the university encourage diversity in its faculty recruitment? Provide the following details (department / school-wise).**

Department / School	% of faculty from the same university (as student of erstwhile Presidency College)	% of faculty from other universities within the State	% of faculty from universities outside the State	% of faculty from other countries
Faculty of Humanities	30%	55%	15%	
Faculty of Science	20%	65%	15%	

**2.4.4 How does the university ensure that qualified faculty are appointed for new programmes / emerging areas of study (Bio-technology, Bio-informatics, Material Science, Nanotechnology, Comparative Media Studies, Diaspora Studies, Forensic Computing, Educational Leadership, etc.)? How many faculty members were appointed to teach new programmes during the last four years?**

The Board of Studies (BOS) identifies potential growth areas within the department and also plans for inter-disciplinary courses and programmes. In the process of appointment of new faculty members, the BOS requests for recruitment in potential growth areas and in fields that are emerging as inter-disciplinary subjects. For example, in the Physics department, two research groups have been built consisting of those who specialize in astrophysics and in nanoscience. Both the fields are emerging as two vastly growing fields national and international levels.

**2.4.5 How many Emeritus / Adjunct Faculty / Visiting Professors are on the rolls of the university?**

**State Govt sanctioned five Chair Professor Positions:**

- Kabiguru Rabindranath Tagore Distinguished University Professorship in the Humanities (in the field of literature and cultural studies); Acharyya JC Bose Distinguished Professor in Natural Sciences, Swami Vivekananda Distinguished University Professorship in the Humanities (in the field of philosophy); and Netaji Subhas Chandra Bose Distinguished University Professorship in the Social Sciences (in the fields of economics, history and/or political science), Kazi Nazrul Islam Distinguished University Professorship (in the fields of intercultural dialogue and Peace).
- **Two more Chair Professorships** are created from Alumni endowment and from Infosys Foundation sponsorship.

Faculty/Department	Chairs instituted	Positions held
Humanities and Social Sciences	Kabiguru Rabindranath Tagore Distinguished Professor in the Humanities (in the field of literature and cultural studies)	Prof. Swapan Kumar Chakraborty (2015-)
	NetajiSubhash Chandra Bose Distinguished Professor in the Fields of economics, history and/or political science	Prof. Sajal Nag (2014-2016)
	Paresh Chandra Chatterjee Professor of History	Prof. Rupendra Kumar Chattopadhyay (2015-)
Faculty of Natural and Mathematical Sciences	Acharyya JC Bose Distinguished Professor in Natural Sciences	Prof. Sabyasachi Bhattacharyya (2014-15)
	Infosys Chair in Economic Sciences	Prof. Pulak Ghosh (2015-)

## Presidency University

### 2.4.6 What policies/systems are in place to academically recharge and rejuvenate teachers (e.g. providing research grants, study leave, nomination to national/international conferences/ seminars, in-service training, organizing national/international conferences etc.)?

All faculty members at Presidency are given an FRPDF grant which helps them to acquire books, journals, IT equipment, lab essentials etc., in fact all that is pertinent to their research work and scholarly pursuits.

Faculty regularly organize both national and international conferences and workshops, at the departmental level. Faculty are also encouraged to upgrade their professional skills by attending UGC sponsored Refresher Courses and Orientation Programmes from time to time. Some faculty members have been granted study leave (sometimes for a whole semester) so as to enable them to complete their Doctoral research; short term leave has also been granted to those engaged in book projects, overseas research projects etc.

### 2.4.7 How many faculty received awards / recognitions for excellence in teaching at the state, national and international level during the last four years?

- INSA Teachers award 2015: Prof. Joydip Mukhopadhyay, Department of Geology
- A number of faculty members are Visiting Professors/Scientists in Foreign universities

### 2.4.8 How many faculty underwent staff development programmes during the last four years (add any other programme if necessary)?

Academic Staff Development Programmes	Number of faculty
Refresher courses	21
HRD programmes	8
Orientation programmes	16
Staff training conducted by the university	14
Staff training conducted by other institutions	2
Summer / Winter schools, workshops, etc.	24
Total	85

### 2.4.9 What percentage of the faculty have

- been invited as resource persons in Workshops / Seminars / Conferences organized by external professional agencies? 20%
- participated in external Workshops / Seminars / Conferences recognized by national / international professional bodies? >95%
- presented papers in Workshops / Seminars / Conferences conducted or recognized by professional agencies? >95%
- teaching experience in other universities / national institutions and other institutions? 10%
- industrial engagement? ~5% (through research)
- international experience in teaching? 10%

Attendance in conference/refresher course during last four years					
Conference	2012	2013	2014	2015	Total
LOCAL	9	9	12	15	45
State level	9	10	11	20	50
National	30	71	90	104	295
International	29	44	51	46	170
					560
Attendance as Resource person /Invited speaker in Conference/Seminar					
Conference	2012	2013	2014	2015	Total
LOCAL	12	10	26	11	58
State level	4	11	7	12	36
National	13	51	63	42	164
International	13	37	48	38	132

**2.4.10 How often does the university organize academic development programmes (e.g.: curriculum development, teaching-learning methods, examination reforms, content / knowledge management, etc.) for its faculty aimed at enriching the teaching-learning process?**

The curriculum has been revised in 2011 and again in 2012/2013. It is an ongoing dynamic process. The Board of Studies recommends changes in the curriculum, and in evaluation systems based on the experiences of faculty members and the feedback of students. For example, in the literature-based subjects, the prescribed texts (i.e. a novel/ play/ poem/ short story) may be subject to change from year to year in order to avoid monotony and also to avoid a predictable pattern of examination questions which often tends to promote mere rote learning.

**2.4.11 Does the university have a mechanism to encourage**

- Mobility of faculty between universities for teaching?
- Faculty exchange programmes with national and international bodies?

If yes, how have these schemes helped in enriching the quality of the faculty?

Presidency University has formally signed memoranda of understanding (MoU) with the following universities:

1. Trinity College, Dublin
2. University of Groningen
3. Cambridge University
4. Hiroshima University

**2.5 Evaluation Process and Reforms**

**2.5.1 How does the university ensure that all the stakeholders are aware of the evaluation processes that are in place?**

All important notices regarding timelines and schedules pertaining to examinations are published and

## Presidency University

circulated to the Heads of the Departments for display and intimation to their students. The university also takes necessary steps in this regard to inform the students through their emails registered with the Examinations department.

### **2.5.2 What are the important examination reforms initiated by the university and to what extent have they been implemented in the university departments and affiliated colleges? Cite a few examples which have positively impacted the examination management system.**

The Office of the Controller of Examinations has ensured that all exam-related activities are conducted online for better manageability and timely publication of results. Some of the highlights are:

- a) Initiating the online form submission process since the Odd Semester results of 2014.
- b) Initiating the online form submission process for the examinees of UG and PG Regular students since the Even Semester Examinations of 2015.
- c) Developing a software for the course-wise Examiner registration and thereafter the Online Marks Submission system.

These endeavours have greatly benefitted the data management and documentation system of the examinees. The introduction of OMS, which is the first of its kind among the universities of West Bengal, has been done with the hope of speeding up the result publication in an error-free and timely manner. Presidency University is the pioneer of such an electronic management of the examination system amidst all the State universities.

### **2.5.3 What is the average time taken by the university for declaration of examination results? In case of delay, what measures have been taken to address them? Indicate the mode / media adopted by the university for the publication of examination results (e.g. website, SMS, email, etc.).**

Generally, examination results are published within 30 working days (of the last date on which examinations are held). In the case of any delay, the information is sent to the respective Heads of the Departments with a tentative date for publication of results.

After a meeting of the Controller of Examinations with all the Heads of academic departments, and the formal signature of the Hon'ble Vice-Chancellor, printed summary sheets of the official results, department-wise, are put up on the notice boards of the respective departments. Students can access their individual results on-line, within a couple of hours, by entering their examination roll no. and registration no.

### **2.5.4 How does the university ensure transparency in the evaluation process? What are the rigorous features introduced by the university to ensure confidentiality?**

The examination system in Presidency is designed to maintain the anonymity of the examinee. The pattern of examination is semester-wise. For both the undergraduate and post graduate courses, there are two types of papers: taught course papers and the laboratory or Sessional papers, each paper being of 50 marks (or 4 credits). Under the new regulations, in vogue from 2013, the former type has a distribution of 35 marks for the End-semester examination along with 15 marks of continuous (internal) assessment. The laboratory or sessional papers are also evaluated on the basis of continuous evaluation (though some may opt for holding practical examinations, viva-voce, seminar presentations, etc.). Assessments of the papers are done by the respective examiners and the marks awarded are transferred to respective grades. There is provision for review of the taught course papers, without any restriction being imposed on the number of papers that a student can review.

The marks for the internal assessments and the laboratory/internal assignments are shown to the students while the end-semester written exam marks are not divulged. The answerscripts are designed so that the name of the examinee does not appear on the answerscript, thereby maintaining anonymity.

**2.5.5 Does the university have an integrated examination platform for the following processes?**

- Pre-examination processes – Time table generation, OMR, student list generation, invigilators, squads, attendance sheet, online payment gateway, etc.
- The pre-examination routine for the Controller’s department involves publication of the time schedule and important timelines pertaining to the examinations. This is done at the end of the first month of the academic semester. Joint meetings are held between the Controller’s Office and the different departmental exam committees for the discussion on and publication of the time lines.
- Application form for the examination is online, with the facility to pay the exam fees online through SBI e-collect portal.
- Examination process – Examination material management, logistics, etc.
- The office of the CoE issues notifications to the respective departmental Heads for the collection of exam related stationeries from its central store
- Post-examination process – Attendance capture, OMR-based exam result, auto processing, generic result processing, certification, etc.

Attendance is an important issue for appearing at the examination. A minimum of 75% class attendance is mandatory for appearing at the examination.

**2.5.6 Has the university introduced any reforms in its PhD evaluation process?**

Since Presidency is a very young university, we have just inducted our first batch of PhD scholars (in mid 2014). The PhD rules have been formalised, with the emphasis being on course work, defense of the synopsis and proposed title of the thesis in front of a departmental PhD committee comprising external experts. Every attempt is made to continuously monitor and vet the research output of the student.

**2.5.7 Has the university created any provision for including the name of the college in the degree certificate?**

Not applicable as Presidency is a unitary university.

**2.5.8 What is the mechanism for redressal of grievances with reference to examinations?**

The publication of results are followed by post-publication review process. Students are allowed to review their scripts by pre-assigned reviewers. In the case of dissatisfaction with the marks/grades, the student may opt for self- assessment of scripts, whereby the student is given a photocopy of the entire script, as desired, on a chargeable basis.

**2.5.9 What efforts have been made by the university to streamline the operations at the Office of the Controller of Examinations? Mention any significant efforts which have improved the process and functioning of the examination division/section.**

The office of the Controller of Examinations is in constant touch with the Office of the Vice-Chancellor, the Registrar and the Finance Officer, and the Heads of academic departments, for the smooth functioning of the examination system. Meetings with the different quarters of the University administration from time to time has ensured that harmony is maintained and notifications issued are approved by the concerned authorities.

**2.6. Student Performance and Learning Outcomes**

**2.6.1 Has the university articulated its Graduate Attributes? If so, how does it facilitate and monitor its implementation and outcome?**

Presidency University aspires to live up to the glorious tradition established by Presidency College which

## Presidency University

has, over the years, nurtured outstanding individuals who have made significant contributions to the life of the Indian nation - producing stalwarts in the varied fields of science, literature, economics, history, journalism and nation-building. Presidency University too aims to fulfill its duty to the nation, and humanity at large, by grooming graduates so that they excel not merely in their own specific academic field but also in the universal and timeless human values. In fact, of the many prizes that are awarded on the Founders' Day of Presidency as an institution, one prize is reserved for the graduate with the 'best human quality'. At the annual convocation ceremony, Presidency University graduates are administered an 'Exhortation' by the Hon'ble Chancellor where they pledge not only to respect their parents and teachers but also to always speak the truth fearlessly, to serve the ailing and the deprived and to put others before self, to share the power of enlightenment with all, and to remain steadfast in their commitment to their chosen intellectual pursuit without succumbing to greed.

### **2.6.2 Does the university have clearly stated learning outcomes for its academic programmes? If yes, give details on how the students and staff are made aware of these?**

Presidency University believes that the academic exercise involved in the curricular design is done with the larger goal of making our students academically competitive and market-oriented. Therefore, the opinion of the students, popularly termed as the students' feedback, is an integral and indispensable part of the entire process. Presidency University respects such feedbacks, with the objective of delving deeper into the issues raised and thereafter shaping and planning the design of the course after taking on board some suggestions, if necessary. Major feedback from external experts, at the national and international levels, is also crucial for course design and implementation.

### **2.6.3 How are the university's teaching, learning and assessment strategies structured to facilitate the achievement of the intended learning outcomes?**

At Presidency, we try to actively discourage mere rote learning. We try to provide an intellectually stimulating academic environment where the curiosity of the student is encouraged so that they develop the capacity for independent thinking and individual judgement. Students are always encouraged to challenge received wisdom and ask probing questions both within the classroom and outside. Also, since teaching and research are supplementary academic activities, there exists a close connection between curriculum design and the latest research in the field. We hope that, in the near future, some of our bright youngsters will pioneer innovations that will benefit all humanity.

### **2.6.4 How does the university collect and analyse data on student learning outcomes and use it to overcome the barriers to learning?**

Student learning outcomes are continuously assessed by individual teacher through sessional assignments, mid-term exams and semester examination. Progress of students are discussed in the teacher-student committee. Class attendance records are discussed at regular intervals. The slow-learners are encouraged to take tutorials or off-class meetings with respective teacher.

### **2.6.5 What are the new technologies deployed by the university in enhancing student learning and evaluation and how does it seek to meet fresh/ future challenges?**

Most faculty members incorporate web-based e-resources and audio-visual materials as part of their classroom teaching strategy. This ensures that the subject information that is disseminated among the students is never dated but, rather, is constantly in the process of being updated and upgraded. Thus when our students step out beyond the campus into the wider world of academics/ research/ industry, they are never at a disadvantage; in fact, they perform much better, both at the national and international levels, compared to their peers from other institutions.

## CRITERION III

### Research, Consultancy and Extension

#### 3.1 Promotion of Research

##### 3.1.1 Does the university have a Research Committee to monitor and address issues related to research? If yes, what is its composition? Mention a few recommendations which have been implemented and their impact.

The university has a Research Advisory Committee (RAC) to monitor and address issues related to research. The Committee includes Deans of the two faculties and a senior professor (Prof. J. Mukhopadhyay) of the University.

The Committee primarily encourages and facilitates the research proposals from faculty members, particularly the young faculty members, for submission to nodal funding agencies, such as, UGC, DST, CSIR, BRNS, MoES, DBT etc. Every single proposal is vetted by the Committee for a general review of scientific objectives and technical details. The Committee, wherever required, suggests the improvements and facilitates submission to funding agencies. The Committee also encourages research programmes by Woman Scientists and postdoctoral fellows/RAs.

The Committee plays an important role in promoting interdisciplinary research and research-consultancy in industry-academia partnership.

The Committee also encourages departmental research infrastructural programmes through DST-FIST and UGC-SAP programmes.

A major impact of the committed is reflected in the 100% success rate of the research proposal by faculty members and postdoctoral fellows from every department. Last year three science departments received the DST-FIST assistance. The DBT-Builder programme of the Department of Biological Sciences since last three years has resulted in a significant upgradation and modernization of the laboratory infrastructure.

In addition to the RAC, the statutory Doctoral Committee of the University and the PhD Committees of each department provide basic framework for the PhD degree research programmes and look into issues related to PhD programme, such as, recruitment of research scholars, PhD coursework, registration of research scholars etc.

##### 3.1.2 What is the policy of the university to promote research in its affiliated / constituent colleges?

Not applicable as Presidency University is an autonomous unitary university.

##### 3.1.3 What are the proactive mechanisms adopted by the university to facilitate the smooth implementation of research schemes/ projects?

- **Advancing funds for sanctioned projects: Not available now.**
- **Providing seed money:**

Presidency University has a unique statutory provision to support faculty research programme to a great extent through a special grant, known as the Faculty Research and Professional Development Fund (FRPDF). The FRPDF creates a provision of Rs 1 Lakh to 3 Lakhs annual grant for each faculty for supporting their research and academic activities. The FRPDF serves as the seed money for initiating a research project.

## Presidency University

- **Simplification of procedures related to sanctions / purchases to be made by the investigators:**

Presidency University has a very well defined procedure for purchase of equipments etc. from research fund. Presidency University has created roster of approved and enlisted vendors for various categories of items from whom the Principal Investigators can directly procure required items. For items of higher values and foreign transactions, the university has specific cell for facilitating and performing all the necessary formalities related to such purchases. The web-based tender-system, to a large extent, has reduced both the paperwork and the inordinately long time it took for the purchase and procure equipments for research.

- **Autonomy to the principal investigator/coordinator for utilizing overhead charges:**

The university partly utilises the overhead charges towards the development charge and electrical/water consumptions for research labs. However, university utilizes the overhead fund for AMC of costly instruments, repair and maintenance of equipments upon request of the Principal Investigators as well as by the Heads of the departments.

- **Timely release of grants:**

The university finance section has a dedicated cell for supporting research projects. The grant is immediately released as per the requirement of the PI and adhering to the basic framework of the project.

- **Timely auditing;**

Auditing is done by university appointed auditors, as per schedule at the end of every financial year for each project.

- **Submission of utilization certificate to the funding authorities;**

UCs and Statement of expenditure are submitted every year after the completion of the audit.

### 3.1.4 How is interdisciplinary research promoted?

- **between/among different departments /schools of the university and :**

Presidency aims at constructing new academic domains by bridging the traditional disciplinary gaps between the humanities, the social sciences, and the natural sciences. The thrust of the effort is into creating viable programmes and projects through interdisciplinary methodologies and researcher-interaction. The curricular design of the newly born university is based on the principle of interdisciplinarity based on a solid foundation of fundamental teaching. The Department of Biological Sciences is the newly created platform where researchers from Biochemistry, Physiology, Botany, Zoology, Chemistry, Physics, Statistics and Bioinformatics have come together in an organic way to enhance both research and pedagogy. Thus, research projects are formulated jointly by faculty members with diverse specialization in the field of life sciences. Phd scholars often avail of guidance across departments, for examples, there have been interdepartmental collaborations between geology and statistics, geology and biology, and geography and geology, to name just a few.

Interdisciplinary research is also gaining ground in humanities and social science. Collaborations between Departments of History and English, History and Geography, Hindi, Bengali & English have already proved quite successful in addressing emerging areas of cultural, demographic and ethnic diversity particularly in the context of eastern and northeastern India. Further, many students of Sociology MA regularly take optional courses in other departments, such as, History. PhD students of Sociology are encouraged to take credit courses from not only outside the department, but also outside institution for their course work. Another prime example of interdisciplinary collaboration and research is the Generals Education (Gen Ed) programme implemented at the university undergraduate level. The Gen Ed courses



are good illustration of interdepartmental knowledge sharing and building.

There have been interdisciplinary collaboration between faculty at the level of their personal research as well. Faculty members from the English (Souvik Mukherjee) and History (Milinda Banerjee) Departments of Presidency University have collaborated in an UKIERI (UK-India Education and Research Initiative) project (2014-16). The project, entitled on 'Narratives of Migration', collaborates with different departments in the University of St Andrews, UK, thereby carrying out interdisciplinary research involving academics from English, History, Film Studies, and Computer Sciences. The project, among other things, has carried out pioneering Digital Humanities research, bringing humanities and social science academics into fruitful collaboration with experts from Computer Sciences, and has also involved academics from archaeology and geography. This project also has a strong student component, involving interdisciplinary student research, drawing expertise especially from students of History and English.

- **collaboration with national/international institutes / industries.**

University has had a number of collaboration at national and international levels, both through collaborative research and through MoUs.

Collaboration at National level: (Detailed list provided under departmental input)

Collaboration at international level:

- a. Through MoUs with the Trinity College Dublin, Hiroshima University, University of Groningen
- b. Through bilateral collaborative research projects:
  1. DST-CNPq: Indo-Brazil Bilateral programmem: Prof. J. Mukhopadhyay with Federal University of Minas Gerais, Brazil: Geology
  2. JSPS-DST : Indo-Japan bilateral programme: Dr. S. Bose: Geology
  3. UKERI-DST: UK-India: Milida Banerjee and Souvik Mukherjee: English-History
  4. Indo-Japan: ModhuchandaGhosh, Political Science
- c. Through individual faculty member

Souvik Mukherjee (English) and Milinda Banerjee (History) have also carried out interdisciplinary research, involving also Digital technologies and with intensive interdisciplinary student collaboration, to create a Digital database on the early modern Dutch cemetery in Chinsurah (West Bengal). The project can be found here: <http://dutchcemeterybengal.com/>. Mukherjee and Banerjee have also lent their academic expertise to a Delhi-based architect team to create a digital database on the early modern Dutch presence in Bengal. This has involved interdisciplinary cooperation between academics and architects. The project can be found here: <http://dutchinchinsurah.com/>.

Banerjee (History), in the course of his research on the Tokyo Trial (1946-48), has carried out interdisciplinary cooperation with academics researching Law. He has pursued this interdisciplinary cooperation between History and International Criminal Law also through his participation in various international conferences and workshops.

### **3.1.5 Give details of workshops/ training programmes/ sensitization programmes conducted by the university to promote a research culture on campus.**

Seminar, workshop and invited talks are regularly arranged in every department. Periodically national and

## Presidency University

international seminars have also been organized. Besides Public Lectures by pioneers in different fields are organized to promote, research and ethics. Nearly 200 seminars-conferences-invited talks were arranged in last four years. (Detailed list provided under departmental input)

### 3.1.6 How does the university facilitate researchers of eminence to visit the campus as adjunct professors? What is the impact of such efforts on the research activities of the university?

The Govt. Of West Bengal created positions for five Chair Professors in the Humanities, Social Sciences, and the Natural Sciences. The Presidency University Act has also created provisions for adjunct professor in each department. So far three Distinguished Chair Professors have joined the university. Besides two chair professorships – one from Infosys Foundation and from and alumni endowment fund have been created in social science and history, respectively. The Distinguished professors deliver lectures involving several departments and provide guidance for formulating research policies at doctoral levels, laboratory modernization, and the new approaches in emerging fields.

### 3.1.7 What percentage of the total budget is earmarked for research? Give details of heads of expenditure, financial allocation and actual utilization.

University supports the research facilities through FRPDF grant (for the faculty members) and the University Research Fellowship (URF) for the research scholars. Both of these grants together constituted 16% to 23% of the total spending of the university in last three years.

Research Fund (Rs in Lakh)	2012-13	2013-14	2014-15
FRPDF	59.14	125.39	148.17
University Research Fellowship			10.30
Percentage of total budget	16%	19%	23%

Besides the university funded research, research scholars receive fellowship through CSIR-NET, UG-JRF-SRF, as well as the fellowships through research projects sponsored by different National/International funding agencies.

### 3.1.8 In its budget, does the university earmark funds for promoting research in its affiliated colleges? If yes, provide details.

Not applicable as Presidency University is an unitary university.

### 3.1.9 Does the university encourage research by awarding Post Doctoral Fellowships/Research Associateships? If yes, provide details like number of students registered, funding by the university and other sources.

University has provision of Research Associate positions attached to the Distinguished or Chair Professors. At present university supports postdoctoral or research associates through project-based funding from UGC and DST. Currently four such postdoctoral research fellows carry out research projects under either DST WoS scheme or UGC RA-ship programmes.

### 3.1.10 What percentage of faculty have utilized the sabbatical leave for pursuit of higher research in premier institutions within the country and abroad? How does the university monitor the output of these scholars?

A number (eight) of faculty members have availed the benefit of study leave to carry out research works mainly in foreign universities. The progress is monitored through their publications and from report submitted after the completion. No sabbatical leave has been yet availed by any of the Faculties.

**3.1.11 Provide details of national and international conferences organized by the university highlighting the names of eminent scientists/scholars who participated in these events.**

A large number of seminars/symposia and conferences have been organised by the university in last four years. Detailed list of conference and seminars organized by each department is annexed with the departmental inputs. An indicative list of major conferences arranged is given below.

Department	National Seminar				Total (four years)	International Seminar				Total
	2012	2013	2014	2015		2012	2013	2014	2015	
DBS			1	2	3					0
Chemistry	1	1	1	1	4					0
Economics	0	1	1	4	6			1	1	2
English	0	0	1	0	1	0	1	3	2	6
Geography			1		1					0
Geology			1		1					0
Hindi			2	3	5	1	1	1		4
History	1	1	1	3	6	1		1	1	3
Political Science			1		1			1		1
Sociology	0	1	2	1	4	0	0	1	0	1
Statistics				1	1					0
Total	2	4	12	15	33	2	2	8	4	17

**Eminent scholars:**

- Economics Prof. Amartya Sen, Dr. Raghuram Rajan, Prof. Joseph Stiglitz, Prof. Maitreesh Ghatak, Dr. Bimal Jalan, Prof. Mukul Majumdar
- English: Prof. Gayatri Chakravorty Spivak, Prof. Geraldine Forbes, Prof. Gautam Bhadra, Prof. Swapan Chakravorty, Prof. Nicholas Roe, Prof. Deirdre Coleman. Prof. Kate Teltscher, Prof. Nigel Leask, Dr John Mathew
- DBS: Prof. L S Shashidhara, Prof. Debashis Mitra, Prof. Dipankar Chatterji, Prof. Gaiti Hasan, Prof. Bernard Paul, Prof. de Biologievégétale, Jules Guyot, Prof. Anindya Sinha
- Geosciences: Prof. S. Bardhan, Dr. Debiprasad Duari, Dr. Basab Chattopadhyay, Prof. Gautam Sen, Prof. D. Nelson, Prof. H. Hidaka, Prof. Carlos Rosiere
- Sociology: Sudipta Kaviraj, Dipankar Gupta, Simon Schaffer, T. K. Oommen, Prof. Sugata Bose, Prof. P. Sainath, Prof. Vandana Shiva, Prof. Brian Hatcher, Prof. Itty Abraham

Besides subject specific seminars and conferences, regular public lectures are arranged. The public lectures are open to all and attracts audience from across the disciplines.

**Public Lectures (2014-15)**

	<b>Speaker</b>	<b>Topic</b>	<b>date</b>
1.	Dr. Raghuram Govind Rajan, Governor, Reserve Bank of India	Debt: The Dipak Banerjee Memorial Lecture	10.12.15
2.	Prof. Jayant Vishnu Narlikar	How well do we know our universe?	21.8.15
3.	Dr. Bimal Jalan	Economics, Politics and Governance	
4.	National Brain Research Centre (NBRC), Manesar	Brain Awareness week	9-12 March 2015
5.	Prof.SugataMitra	Future of Learning	
6.	Smt Amla Shankar and Tanusree Shankar	The Virasat of the Uday Shankar Style of Dance	24th February to 27th February 2015
7.	Ruchira Gupta	As if Women Matter: Feminism Beyond Borders to Tackle Sex Trafficking	19th February 2015
8.	Sudha Murthy		6.2.15
9.	Swapan Dasgupta, Shereen el Feki	Learning, Protest	27.1.15
10.	His Holiness, The Dalai Lama	A Human Approach To World Peace	13.1.15
11.	Prof. Abha Sur	Recasting Science	13.1.15
12.	Prof. Mriganka Sur	Brain wiring and brain disorders	13.1.15
13.	Prof. Inder Mohan Verma	Cancer Stem Cells: Hierarchy Vs. Plasticity	5.1.15
14.	Prof. S. R. Kulkarni, California Institute of Technology	Astronomy on the Cusp: A Subject Driven by Progress in Technology	5.1.15
15.	Prof. Gayatri Chakravorty Spivak	Teaching the Humanities	19.12.14

**3.2 Resource Mobilization for Research**

**3.2.1 What are the financial provisions made in the university budget for supporting students' research projects?**

University supports research activities of students at three levels:

- a. University supports UG-PG summer research projects of deserving candidates by funding the laboratory expenses for in-house research and by partially supporting in the cost of railway fare, accommodation and such, wherever required, especially for economically disadvantaged students.
- b. Partially supporting cost of fieldwork or laboratory consumables for students in their Master's dissertation projects (Geology, Geography, DBS, Chemistry).
- c. University has instituted University Research Fellow programme for supporting PhD scholars. Each faculty member with an experience of at least three years after completion of their own PhD degree can provide one PhD student the URF for five years. Besides, there is an amount of contingency grant also available every year under this programme. University indirectly supports the departmental laboratories and equipments through providing annual maintenance grant, repair of equipments and providing round the clock wireless internet connectivity and computer hardware-software to every faculty.

**3.2.2 Has the university taken any special efforts to encourage its faculty to file for patents? If so, how many have been registered and accepted?**

University has a Law Cell to facilitate patent application and registration.

**3.2.3 Provide the following details of ongoing research projects of faculty:**

Synopsis of ongoing research projects: (Full List in Annexure-1)

Funding Agency	Projects	2014-15	Projects	2015-16	Total Proj	Fund recd
UGC	18	144,29,940	15	12008600	33	26438540
DST	32	872,67,488	8	22874000	40	110141488
CSIR	4	21,15,000	0	0	4	2115000
DBT	5	192,29,760	3	9324539	8	28554299
WB DST	2	33,53,200	1	2213000	3	5566200
MOES	2	32,56,750	0	0	2	32,56,750
BRNS	3	84,19,375	0	0	3	8419375
OTHERS (DBT-Wellcome Trust etc)	0	0	1	35838792	1	35838792
Total	66	1380,71,513	28	82258931	94	22,03,30,444

**3.2.4 Does the university have any projects sponsored by the industry / corporate houses? If yes, give details such as the name of the project, funding agency and grants received**

University receives industry patronage for promoting research in several ways:

- Industry sponsored Chair Professor for a thematic programme of interdisciplinary character. Last year the INFOSYS foundation created a research endowment of Rs 5 Crore for developing the Big Data Analysis infrastructure involving Economics, Statistics and Mathematics. A position of Chair Professor was created for leading this project.
- City based Industrial laboratories through MoU gave access to sophisticated equipments and analytical facilities to researchers and faculty members. The EFRAC laboratories provide training in Visible spectrometer, HPLC, GC-MS, Fluorimeter to research scholars in chemistry, biochemistry and Biological Sciences. ONGC, Atomic Minerals Directorate, TATA STEEL, NHPC, Schlumberger provide training to PG students in the field of mineral and hydrocarbon exploration.
- A MoU has been signed with the Tata Memorial Cancer Hospital, Kolkata for collaborative research in cell biology.
- The university so far has carried out two consultancy mode research projects with industry, both through the Department of Geology. One project in the field of ore mineral assessment for beneficiation from the SGS Pvt. Ltd. The other project was on field petroleum exploration from ONGC. Funding to the tune of Rs. 8.32 Lakh has been received from these two projects.

**3.2.5 How many departments of the university have been recognized for their research activities by national / international agencies (UGC-SAP, CAS; Department with Potential for Excellence; DST-FIST; DBT, ICSSR, ICHR, ICPR, etc.) and what is the quantum of assistance received? Mention any two significant outcomes or breakthroughs achieved by this recognition.**

All the science departments have been recognized by several central funding agencies for different

## Presidency University

funding programmes since over past three decades, in recognition of long track record of excellence in teaching and research. All the science departments have received DST-FIST recognition since the inception of the programme. The Departments of Physics, Chemistry, Geology, Geography, Mathematics, and Biological Sciences (Botany, Zoology, Physiology) have already completed first cycle of DST FIST in the erstwhile Presidency College, which was recognized as a College with Potential for Excellence (UGC-CPE) in 2003. With the transition to the new University, several departments have received the second cycle of DST FIST programme, namely, Physics, Chemistry, Biological Sciences and Geography. Department of Geology finished the second cycle of DST-FIST in 2014 and now is eligible for a fresh application in 2016. The recognition for the Department of Geology and the proposed Centre for Advanced Studies under UGC-SAP has helped the departments to develop infrastructure in research and teaching. Major upgradation has been possible with these assistance in establishing advanced laboratories such as IR, NMR, CD, XRD, SEM-EDS, WD-XRF, High-resolution optical microscopes, fluorescent microscopes. The Department of Biological Sciences too has received grants from DBT under DBT-Builder programme.

### 3.2.6 List details of

#### a. Research projects completed and grants received during the last four years (funded by National/International agencies).

- 35 Research projects with sanctioned grant of Rs. 3.4 Crore have been completed in last four years (List in Annexure-2)

#### b. Inter-institutional collaborative projects and grants received

##### i) National Collaboration:

Faculty members actively collaborate with premier national institutes such as Bose Institutes, SINP, IISER Kolkata, Indian Institute of Geomagnetism, ISI, Kolkata, IISc Bangalore, NGRI-Hyderabad.

##### ii) International Collaborations:

International collaborations operate in following modes:

##### a. Through inter governmental bilateral programmes:

- i) DST-CNPq: Indo-Brazil Bilateral programme: Prof. J. Mukhopadhyay with Federal University of Minas Gerais, Brazil: Geology : Rs 30 lakh (DST-Indian Side)
- ii) TCD-FEMS (Trinity College Dublin): Prof. J. Mukhopadhyay, Geology (Euro 5000 from TCD, Ireland)
- iii) JSPS-DST : Indo-Japan bilateral programme: Dr. S. Bose: Geology: Rs 6 Lakh
- iv) UKERI-DST: UK-India: Milinda Banerjee and Souvik Mukherjee: English-History
- v) Indo-Japan: Modhuchanda Ghosh Political Science (Rs 10 Lakh from Japan Govt)

##### b. MoU signed with foreign universities etc for collaborative work and faculty/student exchange programme.

- i) Trinity College Dublin, University of East Anglia, UK, SOAS, UK, Hiroshima University, Japan, Groningen University, The Netherlands, Cambridge University

**Synopsis of national and International collaborations**

Dept	National Collaboration	International Collaboration
Chemistry	<ul style="list-style-type: none"> <li>Prof. Bijan Das with Dr. Chanchal Das, Department of Chemistry, Sikkim Government College, Gangtok, Sikkim</li> </ul>	<ul style="list-style-type: none"> <li>Prof. Bijan Das with Dr. Ranjit De, Department of Chemistry, Gwangju Institute of Technology, Republic of Korea.</li> </ul>
	<ul style="list-style-type: none"> <li>Prof. Bijan Das with Dr. Sajal Das, Department of Chemistry, North Bengal University, Darjeeling 734 013</li> </ul>	<ul style="list-style-type: none"> <li>Prof. Bijan Das with Dr. Ajaya Bhattarai, M.M.A.M.C (Tribhuvan University), Biratnagar, Nepal</li> </ul>
	<ul style="list-style-type: none"> <li>Prof. Bijan Das with Dr. Pranab Ghosh, Department of Chemistry, North Bengal University, Darjeeling 734 013</li> </ul>	<ul style="list-style-type: none"> <li>Dr. Pulak K. Ghosh with Professor Franco Nori, Quantum Condensed Matter Research Group, Center for Emergent Matter Science, RIKEN, 2-1 Hirosawa, Wako-shi, Saitama 351-0198, Japan</li> </ul>
	<ul style="list-style-type: none"> <li>Dr. Arnab Halder with Dr. Saptarshi Mukherjee, Department of Chemistry, IISER Bhopal</li> </ul>	<ul style="list-style-type: none"> <li>Dr. Pulak K. Ghosh with Professor Fabio Marchesoni, Department of Physics, Università di Camerino, Sezione di Perugia, Italy.</li> </ul>
		<ul style="list-style-type: none"> <li>Dr. Pulak K. Ghosh with Professor Peter Hanggi, Department of Physics, Augsburg University, Germany</li> </ul>
DBS	<ul style="list-style-type: none"> <li>DST SERB: Targeting TRAIL resistance: An approach for preferential killing of advanced stage breast cancer cells (Accepted) PI: Ranjana Pal, Co-PI: Nabendu Biswas Collaborator: Dr. Sanjoy Chatterjee, (Tata Medical centre)</li> </ul>	<ul style="list-style-type: none"> <li>Dr.M.Ganesan: Development of transgenic Bentgrass and Sweet Potato plants with PhyB genes, in collaboration with Jeju National University and National Research Foundation, South Korea, Korean PI: Song-Pill Soon</li> </ul>
	<ul style="list-style-type: none"> <li>Dr. Sutapa Saha: National Collaboration with Prof. Dr. Abhijit Chakrabarti &amp; Dr. Soumen Manna at Saha Institute of Nuclear Physics, Kolkata, Project Title: Investigating Common Molecular Mediators of Leukemia Reversion vs. Leukemogenesis &amp; Molecular Mechanism of Leukemia Reversion in Acute Lymphoblastic Leukemia, Funding Agency: DBT (2014-2017)</li> </ul>	
	<ul style="list-style-type: none"> <li>Dr. Sugopa Sengupta: National Collaboration with Prof. Valakunja Nagaraja at Department of Microbiology &amp; Cell Biology, Indian Institute of Science, Bangalore; Project Title: Understanding the importance of GINS-DNA polymerase interaction during replication., Funding Agency: DBT(2014-2017)</li> </ul>	
Physics	<ul style="list-style-type: none"> <li>Dr. Barnali Chakraborty Prof. V. K. B. Kota, PRL, Ahmedabad</li> </ul>	<ul style="list-style-type: none"> <li>Dr. Barnali Chakraborty: Prof. Lorentz Cederbaum, University of Heidelberg, Germany.</li> </ul>
	<ul style="list-style-type: none"> <li>Dr. Suchetana Chatterjee, University Associate, Inter University Centre for Astronomy and Astrophysics, Pune, India</li> </ul>	<ul style="list-style-type: none"> <li>Prof. Luca Salasnich, University of Padova, Italy.</li> </ul>

Dept	National Collaboration	International Collaboration
		<ul style="list-style-type: none"> <li>• Dr. Andrea Trombettoni, SISSA and ICTP, Italy.</li> </ul>
		<ul style="list-style-type: none"> <li>• Prof. Sylvio Canuto, University of Sao Paulo, Brazil.</li> </ul>
		<ul style="list-style-type: none"> <li>• Prof. M. L. Lekala, University of South Africa, South Africa.</li> </ul>
		<ul style="list-style-type: none"> <li>• Dr. Axel U Lode, University of Basel Switzerland</li> <li>• Dr. Suchetana Chatterjee</li> </ul>
		<ul style="list-style-type: none"> <li>• Prof. Adam Myers (University of Wyoming, USA),</li> </ul>
		<ul style="list-style-type: none"> <li>• Prof. Ryan Hickox (Dartmouth College, USA),</li> </ul>
		<ul style="list-style-type: none"> <li>• Prof. Zheng Zheng (University of Utah)</li> </ul>
		<ul style="list-style-type: none"> <li>• Prof. Jeff Newman (University of Pittsburgh)</li> </ul>
		<ul style="list-style-type: none"> <li>• NASA Project entitled, “Modeling AGN Feedback in Cosmological Simulations” PI – Daisuke Nagai</li> </ul>
Geology	<ul style="list-style-type: none"> <li>• Dr. S. Bose, BESUS now IEST)-Rs. 18 lakhs</li> </ul>	<ul style="list-style-type: none"> <li>• Prof. J Mukhopadhyay, G. Ghosh: 1 (Trinity College, Dublin)-Rs. 6.0 lakh</li> </ul>
	<ul style="list-style-type: none"> <li>• Dr. G. Ghosh: Jogomaya Devi College)-Rs. 19.5 lakhs</li> </ul>	<ul style="list-style-type: none"> <li>• Prof. J. Mukhopadhyay: Federal University of Minas Gerais, Brazil</li> </ul>
	<ul style="list-style-type: none"> <li>• Dr. N. Dasgupta: Ashutosh College)-Rs. 13.5 lakhs</li> </ul>	<ul style="list-style-type: none"> <li>• Dr. S. Bose : Hiroshima University, Japan: Rs. 6.98 lakh</li> </ul>
History	<ul style="list-style-type: none"> <li>• Mridu Rai, Netaji Subhas Bose Research Bureau, Kolkata</li> </ul>	<ul style="list-style-type: none"> <li>• Swarupa Gupta, Member, Indo-British Scholars’ Association</li> </ul>
	<ul style="list-style-type: none"> <li>• Mohammad Sajjad Alam Rizvi, Member, Social Science Panel, National Council for Promotion of Urdu Language, New Delhi, under HRD Ministry, Government of India (Higher Education</li> </ul>	<ul style="list-style-type: none"> <li>• Swarupa Gupta, Member, Association of British Scholars</li> </ul>
		<ul style="list-style-type: none"> <li>• Soumen Mukherjee, Fellow of the Royal Asiatic Society of Great Britain &amp; Ireland</li> </ul>
		<ul style="list-style-type: none"> <li>• Soumen Mukherjee, Member, European Association for South Asian Studies (2010-2012)</li> </ul>
		<ul style="list-style-type: none"> <li>• Mridu Rai, Specialist Academic Assessor for Travelling Fellowships, National University of Ireland, 2015</li> </ul>
		<ul style="list-style-type: none"> <li>• Mridu Rai, Member of Board, South Asia Studies Initiative, Trinity College, Dublin, January 2011 - March 2014</li> </ul>
	<p>Kabiguru Rabindranath Tagore Distinguished Chair Professor in the Humanities (Literary and Cultural Studies) Prof. Swapan K. Chakravorty, Member, Advisory Committee</p>	<p>2014-17: Second Cities in the Circuits of Empire: Glasgow / Calcutta and the Legacy of the Scottish Enlightenment, School of Critical Studies, University of Glasgow, Centre for Studies in Social Sciences, Calcutta, and Presidency University. Funded by the British Academy, UK</p>



**3.3 Research Facilities**

**3.3.1 What efforts have been made by the university to improve its infrastructure requirements to facilitate research? What strategies have been evolved to meet the needs of researchers in emerging disciplines?**

University plans for infrastructure upgradation mainly in two ways:

- a) From university budgetary provisions and augmenting own resources: The major physical infrastructure, laboratory space, space for researchers and scholars are provisioned by the university either through modification of existing space or construction of new space by adding mezzanine floors to existing heritage structure or by adding new floors wherever feasible. University in last four years have made massive investment in modernizing laboratory space. New efficient power infrastructure, air-conditioning, LED lighting and fire safety measures have been installed. State-of-the art modular laboratory furniture and laboratory-ware have been installed. Massive upgradation of networking, server system, high-speed internet through NKN network have been already installed.
- b) From Major support programmes of nodal agencies: Resear chequipments are mainly funded from the major assistance programmes such as DST-FIST, DBT, UGC-CAS and corporate funding, such as, the recently received aid from the Infosys Foundation for Big Data analysis.

Scheme (last four years)	Fund Sanctioned
DST-FIST	81800000
CAS-UGC	15000000
DBT-Builder	49485767
Any other	3800000
Total	15,00,85,767

Moreover, land for the second campus in the city has already been allotted and work is in progress for building up the new space for emerging areas of interdisciplinary research, such as, biotechnology, information science and big data analysis, climate change and atmospheric and environmental science, Earth and Planetary Science, Cultural and Demographic studies, Modern Languages and Performing Arts and Peace Study.

**3.3.2 Does the university have an Information Resource Centre to cater to the needs of researchers? If yes, provide details of the facility.**

The university library is the nodal point for information resource centre pertaining to research. The library has been able to provide several e-resources and e-journals through university server. Fairly good number of e-journals and e-books are now made available through library portal on campus. Details of the e-resources have been provided in Criterion IV.

**3.3.3 Does the university have a University Science Instrumentation Centre (USIC)? If yes, have the facilities been made available to research scholars? What is the funding allotted to USIC?**

University is not being able to provide all instrumentation facility under one roof and under one particular supervision system because of lack of adequate space for such centre. Traditionally laboratories of different departments grew under the auspices of respective departments. The natural science departments are equipped with several advanced instruments such as IR, NMR, CD, XRD, SEM-EDS, WD-XRF, High-resolution optical microscopes, fluorescent microscopes. The researchers and faculty members can use any of these equipments in any of the departments. The Department of Biological Sciences has now integrated all equipments under a Central Instrumental Facility (CIF). The funding for maintenance and repair are

## Presidency University

allotted to every department as per requirements. The university also provides supports for technical staff for laboratory maintenance and sample preparation.

### 3.3.4 Does the university provide residential facilities (with computer and internet facilities) for research scholars, post-doctoral fellows, research associates, summer fellows of various academies and visiting scientists (national/international)?

University provides hostel accommodations to the students and research scholars. The hostels are equipped with internet facility. International students and guests also have provisions for accommodation in both hostels.

### 3.3.5 Does the university have a specialized research centre/ workstation on-campus and off-campus to address the special challenges of research programmes?

University has established new centre in Kurseong Hills specialized for studying Himalayan Diversity. The Centre will concentrate on research on language and social diversity of the hill region, The Centre will also focus on Himalayan Geology and will have a radio telescope observatory for astrophysics postgraduate programme and research.

### 3.3.6 Does the university have centres of national and international recognition/repute? Give a brief description of how these facilities are made use of by researchers from other laboratories.

The laboratory facilities established through DST-FIST, DBT and UGC-CAS programmes provide service to neighbouring institutes as well as institutes from different parts of the country. For Example:UGC-CAS; Petrology lab, WD-XRD and SEM-EDS and the Heavy media separation lab of the Geology Department are being used by researchers from different parts of the country. Training programmes for technical persons from central agencies have also been conducted in these laboratories.

## 3.4 Research Publications and Awards

### 3.4.1 Does the university publish any research journal(s)? If yes, indicate the composition of the editorial board, editorial policies and state whether it/they is/are listed in any international database.

The university has yet to introduce any scientific journal publication system; however, several departments traditionally encourage students for scientific article writing through annual volumes. For example, the publication of Bhuvirdya from the Geology Department has now been a more than 100 year tradition (since 1906). This bilingual journal publishes scientific articles from students.

### 3.4.2 Give details of publications by the faculty:

- Number of papers published in peer reviewed journals (national / international) :

National	166
International	369
Monographs	6
Chapters in Books	44
Books edited	13
Books with ISBN with details of publishers	25
Number listed in International Database (For e.g.Web of Science, Scopus, Humanities International Complete, EBSCO host, etc.)	8
Citation Index – range / average	upto 197

SNIP	0.9 to 0.29
SJR	1 to 5.2
Impact Factor – range / average	<1 to 31/av 7
h-index	1 to 34

### 3.4.3 Give details of

- Faculty serving on the editorial boards of national and international journals
- Prof. Bijan Das has been awarded Honorary Membership of the American Chemical Society, USA (2015).
- Prof. Bijan Das has been awarded Certificate of Appreciation for Valuable Contribution and Dedicated Service in the Peer Review of Manuscripts Submitted to the American Chemical Society Journals (2011).
- Prof. Joydip Mukhopadhyay has been awarded Certificate of Appreciation for Valuable Contribution and Dedicated Service in the Peer Review of Manuscripts Submitted to the Elsevier Journals (South American Journal of Earth Science)
- Dr. Rabindranath Bhattacharyya: Fellow: Elected fellow of Linnean Society of London.

Associate Editor: International Journal of Integrated Research and Development (Section Science and Technology).

- Dr. M. Ganesan, Editorial Board Member in a) Journal of Plant science and Research, b) Biodiversitas and c) International Journal of Advanced Pharma and Bioengineering
- Dr. Abhik Saha is a member of the Editorial Board of Future Microbiology (Editorial Board, 2013-Present) and Infectious Agents and Cancer (Editorial Board, 2013-Present)
- Abhijit Dey is a Editorial board member of International Journal of Pharmacology, and International Journal of Botany and Reviewer of the book series Studies in Natural Products Chemistry (Bioactive Natural Products) ISBN: 13: 978-0-444-59603-1. Elsevier Science Publishers, Amsterdam (Book Series), Edited by Prof. Atta-urRahman
- Dr. Sutapa Saha is member of Human Proteome Organization (HUPO), USA
- Pradip Basu, Founder- Editor of Journal of Humanities and Social Sciences
- Dr. Muktesh Acharyya has acted as Editorial Board member of Frontiers in interdisciplinary Physics (ISSN 2296-424X), Review of Applied Physics (ISSN 2327-1612), American Journal of Physics and Application (ISSN:2330-4286), Heliyon (Elsevier)
- Swarupa Gupta, (1) Life Member, Institute of Historical Studies, Kolkata  
(2) Swarupa Gupta, Member, Indian History Congress
- Soumen Mukherjee, Reviewer/Member of Advisory Board (2014, 2015), ARGUMENT: Biannual Philosophical Journal
- Soumen Mukherjee, Member Editorial Board, Presidency Historical Review
- Mridu Rai, Member Editorial Board, Presidency Historical Review

## Presidency University

- Swapan K. Ckakovorty, 2015: Invitee, Peer Review Group, National Digital Library, Union Ministry of Human Resource Development, IIT , Kharagpur
  - Swapan K. Ckakovorty, 2011-: Member, Advisory Board, Inquire: Journal of Comparative Literature (University of Alberta, Canada)
  - Swapan K. Ckakovorty, 2011-: Member, Oversight and Monitoring Committee of the Kalanukramik Rabindra Rachanavali Project, Ministry of Culture, Undertaken by Visva Bharati (Chronological Anthology of Rabindranath Tagore's Works) (letter from the Director, Rabindra Bhavana, RB:OG:602 dated 5 December 2011)
- **faculty serving as members of steering committees of international conferences recognized by reputed organizations / societies:**
- Dr. S Bose, Department of Geology, is currently acting as the Chairperson of the East Chapter of the Indian JSPS Alumni Association.
  - Swarupa Gupta, Member, Indo-British Scholars' Association
  - Swarupa Gupta, Member, Association of British Scholars
  - Soumen Mukherjee, Fellow of the Royal Asiatic Society of Great Britain & Ireland
  - Soumen Mukherjee, Member, European Association for South Asian Studies (2010-2012)
  - Mridu Rai, Specialist Academic Assessor for Travelling Fellowships, National University of Ireland, 2015
  - Mridu Rai, Member of Board, South Asia Studies Initiative, Trinity College, Dublin, January 2011 - March 2014
  - Swapan K. Ckakovorty, 2016: Chairperson, Committee for Monitoring the Renovation of the Heritage Building of the National Library, Union Ministry of Culture, Kolkata
  - Swapan K. Ckakovorty, 2015-: Malone Society, London, England
  - Swapan K. Ckakovorty, 2015-: State Government Nominee; Board of Governors, Centre for Studies in Social Sciences, Calcutta
  - Swapan K. Ckakovorty, 2014-: Member, Executive Committee, Centre for Archaeological Studies and Training, Eastern India, Kolkata
  - Swapan K. Ckakovorty, 2013- : Manak Sadasya, Karyakarini Samiti, Bharatiya Bhasha Parishad, Kolkata
  - Swapan K. Ckakovorty, 2013: Managing Trustee, Kolkata Museum of Modern Art, Kolkata
  - Swapan K. Ckakovorty, 2012-: Member (Chancellor's Nominee), Senate, University of Calcutta
  - Swapan K. Ckakovorty, 2012-: Member, Executive Council, Gour Banga University, Malda
  - Swapan K. Ckakovorty, 2011-: Expert Member, Nominated by the Executive Council, Granthan Vibhaga Management Committee, Visva Bharati (GVMC/460 dated 31 December 2011), Santiniketan and Kolkata
  - Swapan K. Ckakovorty, 2011: Member, Jury Board, Sarat Puraskar, Sarat Samiti, Kolkata (in Bengali Literature)

- Swapan K. Ckavrorty, 2006-: Member, National Council of Education, Bengal, Kolkata
- Swapan K. Ckavrorty, 2003-: Member, International Shakespeare Association
- Swapan K. Ckavrorty, 2001- Member, Jury Board of Ananda Literary Award (in Bengali Literature), Kolkata
- Swapan K. Ckavrorty, 2000-: Member, Shakespeare Association of India, New Delhi

#### 3.4.4 Provide details of

► research awards received by the faculty and students :

- National Mineral Award-2008 (received in 2010): Prof. Joydip Mukhopadhyay, Department of Geology
- National Geosciences Award (2012): Dr.Sankar Bose, Department of Geology
- Dr. Barnali Chakrabarti, Department of Physics, nominated as Regular Associate of ICTP for 2015-2020.

► national and international recognition received by the faculty from reputed professional bodies and agencies:

- INSA Teachers Award 2015, INSA, New Delhi: Prof. Joydip Mukhopadhyay, Department of Geology
- Visiting Professorship by University of Johannesburg: Prof. Joydip Mukhopadhyay

#### 3.4.5 Indicate the average number of successful M.Phil. and PhD scholars guided per faculty during the last four years. Does the university participate in Shodhganga by depositing the PhD theses with INFLIBNET for electronic dissemination through open access?

- The University does not offer M Phil degree.
- The PhD degree has been initiated only from the last academic session. Faculty members in last four years supervised 31 PhD scholars continuing from the erstwhile Presidency College registered under Calcutta University

#### 3.4.6 What is the official policy of the university to check malpractices and plagiarism in research? Mention the number of plagiarism cases reported and action taken.

The university has recently subscribed to software (Turnit in) for assessing plagiarism. The university makes it mandatory for dissertations to be vetted by the plagiarism software prior to submission. Moreover, supervisor(s) certify the originality of the dissertation at the time of submission.

#### 3.4.7 Does the university promote interdisciplinary research? If yes, how many interdepartmental / interdisciplinary research projects have been undertaken and mention the number of departments involved in such endeavours?

Interdisciplinary research is promoted through basic foundation course structure of the university. The choice based GenEd programmes encourages interdisciplinary studies among every student. The same spirit is also inherited in the postgraduate courses. The most of the current PhD programmes in Biological Sciences and Environmental Sciences involve participation from different disciplines of natural and mathematical sciences.

## Presidency University

### 3.4.8 Has the university instituted any research awards? If yes, list the awards.

No, the university has not instituted any research awards.

### 3.4.9 What are the incentives given to the faculty for receiving state, national and international recognition for research contributions?

The recognition of outstanding performers has been already established in the provisions under the Presidency University Act (Amendment 2013). The policy for incentive is now in the formulation stage.

## 3.5 Consultancy

### 3.5.1 What is the official policy of the university for structured consultancy? List a few important consultancies undertaken by the university during the last four years.

University has formulated a structured policy for consultancy university has so far undertaken following two consultancy:

1. Mineralogy and Liberation of Chrome Ore: Department of Geology: Rs 72,000=00
2. Sedimentological characterization of subsurface formations in Purnia Basin: ONGC:Rs. 7,60,000=00

### 3.5.2 Does the university have a university-industry cell? If yes, what is its scope and range of activities?

- University promotes industry-academia relationship through the office of the Dean of Students Affairs and also at the individual departmental levels.
- A student-teacher committee explores the employment opportunities and organizes campus recruitments. Students of Economics Department has formed a Presidency University Young Entrepreneurs Society (PUYES) with the objective of inculcating the spirit of entrepreneurship, including social entrepreneurship, among students. The Economics Department, in collaboration with PUYES, organized a 3-day workshop on Entrepreneurship Development on 6-9 January, 2016.
- At the departmental level the industry-academia relationship is mainly based on research interests of individual faculty members. Such interactions result in consultancy projects, campus recruitment and joint seminars/workshops.

### 3.5.3 What is the mode of publicizing the expertise of the University for Consultancy Services? Which are the departments from whom consultancy has been sought?

Consultancy services so far has remained at the level of faculty research and in the case of the advanced analytical facility set up through the alliance with Infosys. For example, the mineralogical laboratory with SEM facility of the Geology Department and the rock thin-section preparation facility attracted the attention of mining and mineral industry for supporting their exploration and ore beneficiation strategies. The fundamental research on ore genesis and controls on mineralization also have attracted the attention of the miners for collaborating with the department in areas of mutual interest. Such initiatives further created scope for publicizing the expertise and knowledge base of the university researchers through workshops, seminars, and joint field programmes in the mining districts.

### 3.5.4 How does the university utilize the expertise of its faculty with regard to consultancy services?

University provides the administrative support for promoting industry-academia relations through faculty research programmes. The consultancy rules and incentives to project leaders reflect the positive outlook of the university towards industry-academia relationships.

**3.5.5 List the broad areas of consultancy services provided by the university and the revenue generated during the last four years**

Board Areas:

- Mineral beneficiation
- Petroleum Exploration

**Revenue generated: 8.3 Lakh**

**3.6 Extension Activities and Institutional Social Responsibility (ISR)**

**3.6.1 How does the university sensitize its faculty and students on its Institutional Social Responsibilities? List the social outreach programmes which have created an impact on students' campus experience during the last four years.**

- Presidency University Committee Against Sexual Harassment (PUCASH) organized the following activities to sensitize faculty and students about sexual harassment in the workplace:
  - Public lecture by Ruchira Gupta
  - Poster competition
  - Performed a play on Gender Sensitization
  - Organized a debate on Violence Against Women
- The Department of History collaborated with Kashish Forward and Gaylaxy Magazine to screen films on the experiences of sexual minorities. This was followed by a discussion on LGBTQ issues. This has been done through the active participation and lead of LGBTQ students in the university campus, with the aim of promoting greater awareness about the problems, demands, and rights of sexual minorities, including those of students and of the wider community.
- The Political Science curriculum is taught in the manner to link theory to the social setting of the department and the university. In the undergraduate course, the Political Science Department has introduced a course on Applied Politics, where students are encouraged to go to the field and make reports on a topic of their choice. In the postgraduate course, the students' dissertation also enhances socio-political awareness among students. The students themselves have formed a group in the department called 'Political Science League' and often arrange talks on various issues of social advocacy.
- The university promotes different social outreach programmes to sensitize its faculty and students on its Institutional Social Responsibilities. One of the most notable is the National Service Schemes (NSS). Through different schemes of NSS the students are presented with different options to choose how to participate in the social outreach programmes of the university.
- At departmental levels academic projects with a social focus have been undertaken, such as, the removal of Arsenic from drinking water in the rural & remote parts of North Bengal. Research on the development of nano-polymer as semiconductor are also under the progress.

**3.6.2 How does the university promote university-neighbourhood network and student engagement, contributing to the holistic development of students and sustained community development?**

- The dept of Sociology collaborated with NGO, Durbar, to organize a seminar on the plight of unorganized female, domestic helps and their conditions. The programme helped to capture the narratives of the domestic help, their agony,plight in their own voices.

## Presidency University

- A state-level programme of NSS (National Service Scheme) on National Integrity funded by the Government of West Bengal was organized at Derozio Hall, Presidency University on 23 January, 2015.

### 3.6.3 How does the university promote the participation of the students and faculty in extension activities including participation in NSS, NCC, YRC and other National/ International programmes?

- Dr. Sumita Saha, of the Department of Sociology, has been appointed as the campus NSS Programme Officer (unit -1 of presidency university). As the Programme Officer (Unit-1) of PU-NSS, Dr. Saha has organised three major camps, each 7 days long, in Belegkata slum area (basti no 44) with the students as a part of an Outreach Programme. This included a Health Awareness Camp, a Camp on Geriatric Care, and a Camp on Physical and Mental Disability and Rehabilitation. This initiative not only ensured student participation, but resulted in many UG and PG students becoming members of the campus NSS chapter.
- A few other activities undertaken by the students acting as NSS volunteer under the supervision of teachers the last one year are as follows:
  1. AIDS awareness programmes: A seminar was arranged at A.J.C. Bose auditorium of Presidency University on the 1st December, 2014 (World AIDS Day), followed by a rally and campaign with red ribbon distribution within and around the campus. AIDS awareness message was circulated among friends and known people through Internet by forwarding an informative article on AIDS entitled, 'EDUCATION ON AIDS' prepared by a faculty member. A day-camp on AIDS awareness was organized at Lady Brabourne College, Kolkata in collaboration with their NSS Cell on 6th December, 2014. There was a session for the presentation of academic papers on AIDS awareness where students of both institutions took part enthusiastically. A best paper award was also given to one of the student presenters with appropriate certificates.
  2. In order to popularize NSS and Campaign on Cleanliness, a sit & draw competition was arranged for slum children on the theme of cleanliness. Selected sketches were printed as NSS banner with a date calendar that was circulated in both slum areas and academic institutions free of cost.

### 3.6.4 Give details of social surveys, research or extension work, if any, undertaken by the university to ensure social justice and empower the underprivileged and the most vulnerable sections of society?

- Dr. Purna Banerjee, English Department, undertook ethnographic research on the gender-based violence in the North-Eastern States of India. A part of this research was published as "“Why so much blood?” Narratives of Violence Against Women in Tripura” Economic and Political Weekly: Special Issues on Gender, Vol 49, Issue 43-44, November 1, 2014. The research was done in collaboration with the local chapters of National Commission for Women and Human Rights activists Jayanto Bhattacharya, Krishna Banerjee, Meenakshi Sen Bandyopadhyay.
- Dr. Mousumi Dutta, Economics Department, is undertaking a survey of cost-effectiveness of alternative ovarian cancer treatments. This study is in collaboration with Tata Medical Centre (Kolkata), AIMS (Delhi), Indian Institute of Technology (Kharagpur) and Jawaharlal Nehru University (Delhi).
- Dr. Mousumi Dutta, Economics Department, is undertaking a survey of the impact of malnutrition at the foetal stage on subsequent physical development in collaboration with Indian Institute of Technology Kharagpur (2014-2016).
- Dr. Mousumi Dutta, Economics Department, undertook a survey on working women, child care and intergenerational relationships in 2012. The study was published in Economic & Political Weekly, May 2015.



- Pranjali Rawat, student of Economics Department, had undertaken a study of urban slum dwellers in 2014. His study examined on how the economically deprived lead their lives and tried to establish a link between crime and destitution. PranjaliRawat is also involved with a blog, Youth kiawaaz, (<http://www.youthkiawaaz.com/>) highlighting social issues.
- Noyonika Bose, student of Economics Department, has volunteered with Child Rights and You (CRY) in 2014. As part of her duties, she conducted a survey of schools in Calcutta slums to find out whether they follow the guidelines of the Right To Education (RTE) Act. She also carried out health assessments of children and organised sessions to monitor a child's progress in school.
- Students of the 2013-16 batch, Economics Department, have undertaken a study of disaster management in the context of Aila in the Sunderban region. Many of the undergraduate and postgraduate students of the Economics Department have worked on projects on social themes like malnutrition, gender disparities in education, gender violence, evaluation of the Mid-Day Meal programme, corruption and social sector spendings, etc.
- Sociology department organised special camp on "health awareness" from 9-16th December, 2014. The students of sociology department participated in organising the programme.
- Students of the Sociology department also work on social issues for their UG and PG dissertations. They do field work with under-privileged population. Some examples: Banhisikha Ghosh worked with the Hijras in Burdwan for UG 5th SEM dissertation.
- Faculty from the Humanities departments (especially, English, History, Bengali, Hindi, and Sociology) have active research interest in Gerontology and related psycho-social problems, transgender issues, childhood and related social problems, and Dalit studies.

**3.6.5 Does the university have a mechanism to track the students' involvement in various social movements / activities which promote citizenship roles?**

Dean of Students Affairs is actively involved in promoting outreach and extension activities for the students. Students participating in various social movements are supported by the university through Dean's office.

**3.6.6 Bearing in mind the objectives and expected outcomes of the extension activities organized by the university, how did they complement students' academic learning experience? Specify the values inculcated and skills learnt.**

We would like to present student involvement with the campus NSS chapter as a best example of social extension activities that both promote citizenship among our students and extend their academic learning experiences beyond the confines of the four walls of the university. The popular conception about 'social work' is that it is a work that serves the interest of the community as whole and it should not confer any benefit to the worker himself. But with NSS, the definition of 'social work' gets reconfigured, since here the primary focus is on the development of the personalities of the students through community service. The greatest achievement of the NSS Cell of Presidency University is that it had been successful in extending the learning process into the real world outside of the academia and thereby has been able to teach the students to think beyond the established academic disciplinary boundaries. When a social science student works as a NSS volunteer, he or she get introduced to such intriguing nuances of social reality which even the best textbooks fail to capture. As a result of this, their knowledge gets enhanced, they get to learn from 'praxis', realize the practical implications of the theoretical perspectives which they develop from books and ultimately emerge as socially conscious citizens who are fully aware of their duties.

## Presidency University

### **3.6.7 How does the university ensure the involvement of the community in its outreach activities and contribute to community development?**

One example of how the university ensures the involvement of community in its outreach activities that ultimately contributes to a larger community development can be found in the Sociology department, where, faculty, Dr.SumitaSaha is in charge of outreach programmes undertaken by the department. For example, she is in charge of the Bratachari course in association with the Bengal Bratachari Society, Kolkata. Some of our students that have undertaken this course have written articles for the Bengal Bratachari journal as a part of their beyond syllabus scholarly contribution. Like UjjainiAiche (PG) contributed a write up entitled “Rabindranath o NariSahitya” for the Journal published by the Bengal Bratachari Society.

### **3.6.8 Give details of the initiatives of the university which have encouraged community participation in its activities.ils of awards received by the institution for extension activities and/contributions to social/ community development during the last four years.**

Presidency is a new university which is still at the nascent stage in its development. Despite being both socially committed and academically productive, it has not yet received any awards for its extension activities and contributions to community development. However, it has received very good press coverage for its many extension activity endeavors and has had a high esteem in the court of public (civil society) opinion.

## **3.7 Collaboration**

### **3.7.1 How has the university’s collaboration with other agencies impacted the visibility, identity and diversity of activities on campus? To what extent has the university benefitted academically and financially because of collaborations?**

University collaborates with several societies for diverse activities that haslead to its elevated profile, through constant mention in newspapers and through its being rewarded with financial aid and grants from both governmental and corporate sectors. Some example of activities that have shed positive light on the university collaborations are:

- The Department of History has collaborated with Kashish Forward and Gaylaxy Magazine to enhance awareness of student diversity, and especially the rights and concerns of LGBTQ students.
- Co curricular activities:
  - Calcutta Debating Society
  - SPICMACAY
  - British Council
- Faculty from the English and History departments being awarded the UKIERI (UK-India Education and Research Initiative) project (2014-16).

### **3.7.2 Mention specific examples of how these linkages promote:**

- Curriculum development
- Internship
- On-the-job training
- Faculty exchange and development
- Research
- Publication

- Consultancy
- Extension
- Student placement
- Any other (please specify)

Faculty members from the Departments of History and English have worked with several institutions and agencies - including the University of St Andrews, the Netherlands Embassy in India, and AishwaryaTipnis Architects (Delhi) - to create collaboration between interdisciplinary academic research and wider public outreach in fields such as heritage sensitization (for details, see 3.1.1). Since these projects have involved intensive work of university students, this has also led to student training in field research, besides promoting faculty exchange and development. Some of the fruits of these programmes have been translated into the development of new courses on global intellectual history in the postgraduate curriculum of the History Department. Some of the research outcome has also contributed to enhancing heritage sensitization, with potential long-term impact on tourism development in West Bengal. For example, a workshop organized in February 2014 brought Dutch and Danish delegates into conversation with Presidency academics and students as well as with representatives of the Tourism Department of the Government of West Bengal and with national and local heritage enthusiasts. This workshop has led to further brainstorming on how Presidency University faculty and students can contribute to improving heritage awareness and tourism in West Bengal, through collaboration between local communities and local, national, and transnational academics and publics. Further similar workshops have been intended for 2016, centring especially on the Danish heritage in West Bengal. Discussions have also been carried out between Presidency faculty and students and Scottish historians and heritage personnel, resulting in ongoing collaborative ventures on giving greater visibility to the Scottish heritage in West Bengal. The aim is to promote academic research as well as tourism in West Bengal.

**3.7.3 Has the university signed any MoUs with institutions of national/international importance/other universities/ industries/corporate houses etc.? If yes, how have they enhanced the research and development activities of the university?**

- SOAS, University of East Anglia, Sciences Po (France), Groningen University, Hiroshima University, Trinity College, Dublin
- Students from Sciences Po have been taking classes in the Political Science and History Departments of Presidency, while our students have gone to France to attend classes in Sciences Po. This has had a very positive impact on student research and development.
- The MoU with Hiroshima University Faculty of Science enabled four researchers and four postgraduate students this year to learn advanced analytical techniques in their laboratories.

**3.7.4 Have the university-industry interactions resulted in the establishment / creation of highly specialized laboratories / facilities?**

- The MOU with Efrac has opened a scope for our students and research scholars to get trained in modern research instruments useful for their research works. This training will also help them to get absorbed in various industrial jobs.
- The Departments of Economics, Mathematics and Statistics have jointly applied for funding under RUSA to establish a hi-tech computing lab for analysis of big data. This will facilitate industry-university linkage.
- Schlumberger Ltd. Is providing software support for developing petrophysics laboratory at the Geology Department

Annexure: 1

List of ongoing research projects

Sl. No.	Project Title	Funding Authority	P.I.	Department	Sanction letter No. & Date	Sanctioned Amount		
						Non-Recurring	Recurring	Total
<b>Projects ongoing from 2014-15</b>								
1	Understanding mechanism..... Regulation in S. Aureus	BRNS	Adhar Chandra Manna	DBS	2013/37B/46/BRNS/2822, Dt 7/1/14	9,00,000	15,94,875	24,94,875
	<b>Sub-Total-BRNS (A)</b>					<b>9,00,000</b>	<b>15,94,875</b>	<b>24,94,875</b>
2	Origin & structural control.....Arunachal Pradesh	BRNS	Nilanjan Dasgupta	Geology	36(5)/14/37/2014-BRNS/ 1150, Dt. 21.07.2014	10,00,000	22,56,750	32,56,750
3	Structural control ..... SUB-BASIN Andhra Pradesh	BRNS	Gautam Ghosh	Geology	2011/36/59/BRNS/2186	8,00,000	18,67,750	26,67,750
	<b>Sub-Total-BRNS (B)</b>					<b>18,00,000</b>	<b>41,24,500</b>	<b>59,24,500</b>
	<b>TOTAL - BRNS (A+B)</b>					<b>27,00,000</b>	<b>57,19,375</b>	<b>84,19,375</b>
40	Biochemical characterisation ..... molecular genetics	DBT	Adhar Chandra Manna	DBS	BT/PR7897/ME D/29/703/ 2013, DT. 13.01.2014	14,00,000	28,94,160	42,94,160
41	Targeting Autophagy..... Chronic Myeloid	DBT	Abhik Saha	DBS	BT/PR8123/ME D/30/990 /2013, Dt. 05/11/2014	18,93,000	42,50,000	61,43,000
42	Understanding the importance..... During replication	DBT	Sugopa Sengupta	DBS	BT/Bio-CARe/ 01/10021/2013 -14,Dt.20.11.2014	20,00,000	34,36,800	54,36,800
44	Investigating Vommon Molecular ..... Leukemia (All)	DBT	SutapaSaha	DBS	BT/Bio-CARe /07/99 89/2013-14, Dt. 9.10.2014	2,00,000	13,80,000	15,80,000
45	Molecular dissection..... Indica rice (RGYI)	DBT	Bhaskar Gupta	DBS	BT/PR6031/GB D/27/374/ 2012, Dt 02.12.2013	2,03,000	15,72,800	17,75,800
46	Support to establish DBT..... Boost Presidency University (BUILDER)	DBT-Builder	Abhik Saha Piyali Mukherjee	DBS	BT/PR-11357/ INF/22/197/ 2014, Dt 28.03.2014	379,85,767	115,00,000	494,85,767
43	Identification of susceptible..... West Bengal India	WB-DBT	Dr. Amlan Ghosh	DBS	922/(Sanc)-BT (Estt.)/RD-13/13, Dt. 09.09.2014	3,00,000	12,62,000	15,62,000
	<b>TOTAL- DBT</b>					<b>439,81,767</b>	<b>262,95,760</b>	<b>702,77,527</b>

Sl. No.	Project Title	Funding Authority	P.I.	Department	Sanction letter No. & Date	Sanctioned Amount		
						Non-Recurring	Recurring	Total
1	Interaction between ..... Ionic Liquids	DST	Dr. Bijan Das	Chemistry	SR/S1/PC-67/2010(G) Dt.23.09.2011	11,25,000	19,10,800	30,35,800
6	Photoinduced energy trasfer.... Multitryptophan proteins	DST	Dr. Sanjib Ghosh	Chemistry	SB/S1/PC-003/2013, Dt 22.8.2013	33,60,000	21,40,000	55,00,000
10	Structural and confirmation ..... Different temperature	DST	Dr. Pinki Saha Sardar	Chemistry	SB/FT/CS-141/2012, DT 31.12.2013	4,00,000	18,90,000	22,90,000
14	Design and synthesis ..... Asymmetric reaction	DST	Dr. Koena Ghosh	Chemistry	SB/FT/CS-031/2012, Dt. 22.08.2013	0	25,40,000	25,40,000
15	New boron-containing ..... hybrid materials	DST	Dr. Sasikumar Palani	Chemistry	SB/FT/CS-112/2013, Dt.02.06.2014	7,60,000	15,96,000	23,56,000
16	Preperation of advance..... Chromatogeraphy	DST	Dr. Dhruba Prasad Chatterjee	Chemistry	SB/FT/CS-189/2011,Dt. 27.06.2014	13,00,000	5,90,000	18,90,000
17	Development of novel....imaging lead	DST	Dr. Anjoy Majhi	Chemistry	SB/FT/CS-188/2012, Dt.30.06.2014	6,70,000	13,50,000	20,20,000
28	Studies towards..... Thiopheneanalogs	DST	Dr. Gandhi Kr Kar	Chemistry	SR/S1/OC-30/2011, Dt 20.02.2015	8,30,000	14,70,000	23,00,000
	<b>Sub-Total -DST (A)</b>					<b>84,45,000</b>	<b>134,86,800</b>	<b>219,31,800</b>
3	Study the molecular ....rice cultivars	DST	Dr. Kamala Gupta	DBS	SB/FT/LS-256/2012, Dt.02.05.2013	4,90,000	17,40,000	22,30,000
9	Studied on enhancing ..... Fungal agents	DST	Dr. Puja Ray	DBS	SB/YS/LS-127/2013, Dt. 19.11.2013	5,40,000	14,80,000	20,20,000
18	Development and characterisation..... soil tolerance studies	DST	Dr. M Ganesan	DBS	SB/YS/LS-300/2013, Dt.30.06.2014	6,50,000	16,50,000	23,00,000
23	Regulation of mitochondrial..... Parkinson's disease	DST	Dr. Piyali Mukherjee	DBS	SB/YS/LS-124/2014, Dt. 20.03.2015	8,70,000	16,30,000	25,00,000
26	Overcoming Imatinib..... hydrooxychavichol	DST	Dr. Nabendu Biswas	DBS	SB/YS/LS-123/2014, Dt. 20.03.2012	3,45,000	20,05,000	23,50,000

Sl. No.	Project Title	Funding Authority	P.I.	Department	Sanction letter No. & Date	Sanctioned Amount		
						Non-Recurring	Recurring	Total
27	Collective cell migration.... Protein Par-1	DST	Dr. Pralay Majumder	DBS	SB/YS/LS-88/2014, Dt. 11.03.2015	3,60,000	24,40,000	28,00,000
35	DST Ramanujan	DST	Dr. Abhik Saha	DBS	SR/S2/RJN-04/2012, Dt. 21.06.2013	0	73,00,000	73,00,000
<b>Sub-Total-DST (B)</b>						<b>32,55,000</b>	<b>182,45,000</b>	<b>215,00,000</b>
12	Modelling the impact..... Teesta river	DST	Dr. Joy Sanyal	Geography	SR/FTP/ES-97/2013, Dt. 16.04.2013	10,50,000	11,00,000	21,50,000
<b>Sub-Total-DST (C)</b>						<b>10,50,000</b>	<b>11,00,000</b>	<b>21,50,000</b>
4	Petrological, geochemical..... eastern India shield	DST	Dr. Arijit Ray	Geology	SR/S4/ES-646/2012, Dt.10.07.2013	13,12,000	18,30,000	31,42,000
5	Study of systematics.... Kutch, Gujarat	DST	Dr. Kalyan Halder	Geology	SR/S4/ES-653/2012, Dt.10.07.2013	50,000	21,94,000	22,44,000
8	Influence of climate..... Loktak, Manipur	DST	Dr. Supriyo Kr das	Geology	SR/FTP/ES-21/2013, Dt 07.10.2013	15,00,000	11,00,000	26,00,000
19	DST Inspire	DST	Dr. Nilanjana Sorcar	Geology	DST/INSPIRE Faculty Award /2014/DSTINSPIRE/ 04/2014/000221, Dt. 10.11.2014	12,25,000	22,75,000	35,00,000
13	Archean craton-margin..... supercontinents	DST	Dr. Sankar Bose	Geology	DST/INT/JSPS /P-190/2014, Dt. 28.05.2014	0	6,98,000	6,98,000
22	BIF & BIF hosted.....Giants of Brazil & India	DST	Dr. Joydip Mukhopadhyay	Geology	INT/Brazil/P-09/2013, Dt. 26.06.2014	0	30,07,110	30,07,110
29	Ba anomaly in hornblende..... NE Purulia, West Bengal	DST	Dr. Aditi Mandal	Geology	SR/WOS-A/ES-27/2011 (G), 09.05.2012	1,25,000	20,85,000	22,10,000
30	Management Performance of ..... solid material/sludge	DST	Dr. Pampa Bhatta Charyya	Geology	SEED/DISHA/WOSB/ 034/2012 G, Dt 06.09.2013	6,65,000	10,21,800	16,86,800
31	Applied clay science..... Petroleum indication	DST	Dr. Swapna Mukherjee	Geology	HR/UR/24/2011, Dt 02.05.2013	0	9,66,000	9,66,000

Sl. No.	Project Title	Funding Authority	P.I.	Department	Sanction letter No. & Date	Sanctioned Amount		
						Non-Recurring	Recurring	Total
32	Design consideration.... Transfer programme	DST	Dr. Shara dindra Cha kraborty	Geo logy	DST/TM/WTI /2K11/299 (G), Dt 22.05.2012	0	19,46,600	19,46,600
25	Petrological, geochemical....Orissa, India	DST	Dr. Piyali Sengupta	Geo logy	SR/WOS-A/ES-22/2012	1,50,000	20,85,000	22,35,000
<b>Sub-Total-DST (D)</b>						<b>50,27,000</b>	<b>192,08,510</b>	<b>242,35,510</b>
20	Many body effects .....Feshbach resonance	DST	Dr. Barnali Chakraborti	Ph ysics	SR/S2/CMP-126, Dt. 20.06.2014	2,44,315	17,55,263	19,99,578
21	2-D Nanomaterials for..... Photo detector	DST	Dr. Sukanta De	Ph ysics	SB/FTP/PS-190/2013, Dt. 04.09.2014	10,00,000	14,12,000	24,12,000
24	Modelling astrophyerical... hydrodynamics	DST	DR. Mira Dey	Ph ysics	SR/S2/HEP/-26/2009( C )	1,50,000	22,33,600	23,83,600
33	Unvelling the epoch ..... neutral Hydrogen	DST	Dr. Kanan Kr. Dutta	Ph ysics	SR/FTP/PS-119/2012, Dt 7.10.2013	5,00,000	17,10,000	22,10,000
34	DST Ramanujan	DST	Dr. Sukanta De	Ph ysics	SR/S2/RJN-98/2011, Dt. 02.11.2014	0	84,45,000	84,45,000
<b>Sub-Total-DST (E)</b>						<b>18,94,315</b>	<b>155,55,863</b>	<b>174,50,178</b>
<b>TOTAL-DST (A+B+C+D+E)</b>						<b>196,71,315</b>	<b>675,96,173</b>	<b>872,67,488</b>
7	Molecular analysis.... Indica Rice	WB-DST	Dr. Bhaskar Gupta	DBS	167(sanc)/ST/ P/S&T/IG-12/2011, Dt 6/5/13	60,000	22,09,075	22,69,075
<b>TOTAL-WB-DST</b>						<b>60,000</b>	<b>22,09,075</b>	<b>22,69,075</b>
49	Study of the Sub-Himalayan..... Subathu Basin	MOeS	Dr. Gautam Ghosh	Geo logy	MoES/P.O. (Geosci)/ 3/2012, Dt 05.06.2013	0	8,00,000	8,00,000
50	Paleoseism interpretations .... Other occurrence	MOeS	Dr. Gautam Kr. Deb	Geo logy	MoES/P.O. (Seismo) /1(145)/2012, Dt 28.09.2012	1,04,800	17,05,200	18,10,000
<b>TOTAL-MOES</b>						<b>1,04,800</b>	<b>25,05,200</b>	<b>26,10,000</b>
47	Performing Chilhood..... Indian Theatre	ICSSR	Dr. HiaSen	DBS	02/218/2014-15 / ICSSR/RPR, Dt. 28.10.2014	0	7,00,000	7,00,000
<b>TOTAL-ICSSR</b>						<b>0</b>	<b>7,00,000</b>	<b>7,00,000</b>

Sl. No.	Project Title	Funding Authority	P.I.	Department	Sanction letter No. & Date	Sanctioned Amount		
						Non-Recurring	Recurring	Total
11	Design and validation ... nanotechnology transfer programme	PHED	Dr. Sharadindra Chakraborty	Geology	PHE/WSSO/8-14/818, Dt26/2/15	0	15,00,000	15,00,000
48	Culture dependent..... around Kolkata	WBBB	Dr. Bhaskar Gupta	DBS	777/3K/(Bio)-4/2012	0	14,98,000	14,98,000
<b>TOTAL-OTHER</b>						<b>0</b>	<b>29,98,000</b>	<b>29,98,000</b>
<b>Projects ongoing from 2014-15 (CSIR)</b>								
1	Photophysical Aspects and Photo induced Energy Transfer/Electron Transfer in ternary System Consisting of two Donors and one Acceptor	CSIR	Prof. Sanjib Ghosh	Chemistry	21(0871)/11/EMR-II dt-28-04-2014	–	5,29,000	5,29,000
<b>Department wise Total</b>						–	<b>5,29,000</b>	<b>5,29,000</b>
2	Synchronization in a network of nonlinear oscillators	CSIR	Dr. Prodtot Kumar Roy	Physics	21(0942)/12/EMR-II dt-23.12.2013	–	5,04,000	5,04,000
<b>Department wise Total</b>						–	<b>5,04,000</b>	<b>5,04,000</b>
3	Identification and phylogenetic characterisation of genes regulating unique pioneering behaviour in tree bamboo	CSIR	Dr. Malay Das	DBS	38(1386)/14/EMR-II dt-06.05.14	–	7,32,000	7,32,000
<b>Department wise Total</b>						–	<b>7,32,000</b>	<b>7,32,000</b>
4	Characterization of Fluids during The Evolution of Granulites of Eastern Ghats Belt, India Estimation from solid assemblage and fluid inclusion study	CSIR	Dr. Sankar Bose	Geology	24(0333)/14/EMR-II dt 27.11.2014	–	3,50,000	3,50,000
<b>Department wise Total</b>						–	<b>3,50,000</b>	<b>3,50,000</b>
<b>Grand-Total-CSIR</b>						–	<b>21,15,000</b>	<b>21,15,000</b>



Sl. No.	Project Title	Funding Authority	P.I.	Department	Sanction letter No. & Date	Sanctioned Amount		
						Non-Recurring	Recurring	Total
<b>List of Projects ongoing from 2014-15 (UGC)</b>								
1	UGC-BSR Research Start-Up-Grant	UGC	Dr. Sasikumar Palani	Chemistry	F.30-19/2014 (BSR) & dt -18.07.2014	–	6,00,000	6,00,000
2	UGC-BSR Research Start-Up-Grant	UGC	Dr. Adity Bose	Chemistry	F.30-19/2014 (BSR) & dt -18.07.2014	–	6,00,000	6,00,000
3	UGC-BSR Research Start-Up-Grant	UGC	Dr. Anjoy Majhi	Chemistry	F.30-19/2014 (BSR) & dt -18.07.2014	–	6,00,000	6,00,000
4	UGC-BSR Research Start-Up-Grant	UGC	Dr. Krishna Pada Bhabak	Chemistry	F.30-19/2014 (BSR) & dt -18.07.2014	–	6,00,000	6,00,000
5	Photophysical behavior of some ..... biological membranes	UGC	Dr. Adity Bose	Chemistry	42-1033/2013 (SR) dt 30.03.13	45,000	75,000	1,20,000
<b>Department wise Total</b>						<b>45,000</b>	<b>24,75,000</b>	<b>25,20,000</b>
6	UGC-BSR Research Start-Up-Grant	UGC	Dr. M. Ganesan	DBS	F.30-19/2014 (BSR) & dt -18.07.2014	–	6,00,000	6,00,000
7	UGC-BSR Research Start-Up-Grant	UGC	Dr. Bhaskar Gupta	DBS	F.30-19/2014 (BSR) & dt -18.07.2014	–	6,00,000	6,00,000
8	UGC-BSR Research Start-Up-Grant	UGC	Dr. Nabendu Biswas	DBS	F.30-19/2014 (BSR) & dt -18.07.2014	–	6,00,000	6,00,000
9	UGC-BSR Research Start-Up-Grant	UGC	Dr. Amlan Ghosh	DBS	F.30-19/2014 (BSR) & dt -18.07.2014	–	6,00,000	6,00,000
10	UGC-BSR Research Start-Up-Grant	UGC	Dr. Kamala Gupta	DBS	F.30-19/2014 (BSR) & dt -18.07.2014	–	6,00,000	6,00,000
11	UGC-BSR Research Start-Up-Grant	UGC	Dr. Ranjan Pal	DBS	F.30-19/2014 (BSR) & dt -18.07.2014	–	6,00,000	6,00,000
12	UGC-BSR Research Start-Up-Grant	UGC	Dr. Sangha mitra Dey	DBS	F.30-19/2014 (BSR) & dt -18.07.2014	–	6,00,000	6,00,000

Sl. No.	Project Title	Funding Authority	P.I.	Department	Sanction letter No. & Date	Sanctioned Amount		
						Non-Recurring	Recurring	Total
13	“Molecular characterization and evaluation ..... Hypertension and oxidative stresses”	UGC	Dr. Jana Char kraborti	DBS	42-214/2013 (SR) dt 22.03.13	4,00,000	8,25,800	12,25,800
14	Cytological & phytochemical analysis ... species of Ornithogalum L.	UGC	Dr. Madhubrata Choudhury	DBS	42-965/2013 (SR) dt 30.03.13	2,00,000	8,74,800	10,74,800
	<b>Department wise Total</b>					<b>6,00,000</b>	<b>59,00,600</b>	<b>65,00,600</b>
15	Dynamics of Stock market Cycles: Asystematic introspection from recent evidences	UGC	Dr. Gagari Chakraborti	Economics	F.6-35/2013 (HRP) & dt 27.06.2014	40,000	50,000	90,000
	<b>Department wise Total</b>					<b>40,000</b>	<b>50,000</b>	<b>90,000</b>
16	“Narratives of Migration and Exchange “ under UDC-UKIERI Thematic Partnership-2014	UGC	Dr. Souvik Mukherjee	English	F.184-9/2014 (IC) & dt-19.06.2014	–	26,39,340	26,39,340
17	UGC-BSR Research Start-Up-Grant	UGC	Dr. Priyank Pravin Patel	Geography	F.30-78/2014 (BSR) & dt-22.01.2015	–	6,00,000	6,00,000
	<b>Department wise Total</b>					–	<b>32,39,340</b>	<b>32,39,340</b>
18	UGC-BSR Research Start-Up-Grant	UGC	Dr. Supriyo Das	Geology	F.4-5(49)/2013 (BSR) & dt 20.08.2014	–	6,00,000	6,00,000
	<b>Department wise Total</b>					–	<b>6,00,000</b>	<b>6,00,000</b>
19	UGC-BSR Research Start-Up-Grant	UGC	Dr. Subhra Bhatta charya	Mathematics	F.4-5(12)/2013 (BSR)(FRP) & dt-08.10.2014	–	6,00,000	6,00,000
	Department wise Total					–	6,00,000	6,00,000
	<b>Grand-Total-UGC</b>					<b>6,85,000</b>	<b>128,64,940</b>	<b>135,49,940</b>
<b>List of projects starting from the year 2015-16 (DST-DBT)</b>								
1	Dissecting the molecular..... using pseudo-particles	DBT	Dr. Aparna Mukhopadhyay	DBS	BT/Bio-CARe /07/10139/2013-14, Dt 15.05.2015	13,29,739	15,28,000	28,57,739

Sl. No.	Project Title	Funding Authority	P.I.	Department	Sanction letter No. & Date	Sanctioned Amount		
						Non-Recurring	Recurring	Total
14	Tbx20 function in cardiomyocyte..... Cardiac injury	DBT	Dr. Santanu Chakra borty	DBS	BT/PR11785/BRB/10/1324/2014, Dt 26/11/2015	4,70,000	34,96,800	39,66,800
5	Molecular mechanism ..... Tumorigenesis	DBT Rajib Gandhi	Dr. Saghamitra Dey	DBS	6242-P39/RG CB/PMD/DBT/SNMD/2015, Dt 29.07.2015	9,00,000	16,00,000	25,00,000
2	Evaluation of phytopathogens..... Toxin production	WB-DBT	Dr. Puja Ray	DBS	212/BT(Estt)/RD 36/2014, Dt 17/3/15	5,35,000	16,78,000	22,13,000
<b>TOTAL-DBT</b>						<b>32,34,739</b>	<b>83,02,800</b>	<b>115,37,539</b>
4	Synthesis and characterisation ..... Chiral Magnets	DST	Dr. Biplab Biswas	Chemistry	YSS/2014/000466, Dt 02.09.2015	8,50,000	15,76,000	24,26,000
12	Interactions of model ..... In different microenvironments	DST	Dr. Adity Bose	Chemistry	YSS/2014/000403, Dt 04/11/2015	14,00,000	12,00,000	26,00,000
15	Investigations of diffusion..... In confined geometries	DST	Dr. Pulak Kumar Ghosh	Chemistry	YSS/2014/000853, Dt 4/11/2015	15,00,000	14,06,000	29,06,000
<b>Sub-Total-DST (A)</b>						<b>37,50,000</b>	<b>41,82,000</b>	<b>79,32,000</b>
9	Functional characterisation ..... Effective mutagenesis tool	DST	Dr. Atreyi Chatterjee	DBS	YSS/2014/000397	5,50,000	21,16,000	26,66,000
10	Molecular mechanism ..... stress condition	DST	Dr. Saghamitra Dey	DBS	EMR/2014/000366, Dt 8/10/15	19,63,200	35,06,800	54,70,000
11	Potential role of interleukin..... In teleost fish	DST	Dr. Kousick Pramanick	DBS	YSS/2015/001272, Dt 06/11/2015	6,50,000	23,16,000	29,66,000
<b>Sub-Total-DST (B)</b>						<b>31,63,200</b>	<b>79,38,800</b>	<b>111,02,000</b>
8	Solution-processed ..... CZTS solar cells	DST	Dr. Rabindra Nath Gayen	Physics	YSS/2014/000038, Dt 13.10.2015	15,00,000	7,20,000	22,20,000
<b>Sub-Total-DST (C)</b>						<b>15,00,000</b>	<b>7,20,000</b>	<b>22,20,000</b>

Sl. No.	Project Title	Funding Authority	P.I.	Department	Sanction letter No. & Date	Sanctioned Amount		
						Non-Recurring	Recurring	Total
6	Lab to lab field ..... Bankura districts, West Bengal	DST-Disha	Ms. Kankan Mukhopadhyay	Geology	DST/Disha/SoRF-PM/064/2013/C, Dt 14.09.2015	4,50,000	14,70,000	19,20,000
<b>Sub-Total-DST (D)</b>						<b>4,50,000</b>	<b>14,70,000</b>	<b>19,20,000</b>
<b>TOTAL-DST (A+B+C+D)</b>						<b>88,63,200</b>	<b>143,10,800</b>	<b>231,74,000</b>
7	Chemical, physical .... Environment	WB-DST	Dr. Adity Bose	Chemistry	546(Sanc.)/ST/P/S&T/4G-13/2014, Dt 13.10.2015	4,00,000	13,91,200	17,91,200
<b>TOTAL-WB-DST</b>						<b>4,00,000</b>	<b>13,91,200</b>	<b>17,91,200</b>
<b>List of Projects from the Financial Year 2015-16 (UGC)</b>								
1	UGC-BSR Research Start-Up-Grant	UGC	Biplab Biswas	Chemistry	F.30-32/2015 (BSR) &dt -30.03.15	–	6,00,000	6,00,000
2	UGC-BSR	UGC	Arnab Halder	Chemistry	F.30-32/2015 (BSR) &dt -30.03.15	–	6,00,000	6,00,000
3	UGC-BSR	UGC	Dhruba Prosad Chatterjee	Chemistry	F.30-32/2015 (BSR) &dt -30.03.15	–	6,00,000	6,00,000
4	UGC-BSR	UGC	Pulak Kumar Ghosh	Chemistry	F.30-32/2015 (BSR) &dt -30.03.15	–	6,00,000	6,00,000
<b>Department wise Total</b>						–	<b>24,00,000</b>	<b>24,00,000</b>
5	UGC-BSR	UGC	Santanu Chakraborty	DBS	F.30-78/2014 (BSR) dt 05.10.15	–	6,00,000	6,00,000
6	UGC-BSR	UGC	Paramita Chaudhuri Basu	DBS	F.30-78/2014 (BSR) dt 05.10.15	–	6,00,000	6,00,000
7	Targeted ..... Duplication	UGC-MRP-Major	Malay Das	DBS	F.No.43-68/2014 (SR) dt 17.08.15	2,00,000	11,80,000	13,80,000

Sl. No.	Project Title	Funding Authority	P.I.	Department	Sanction letter No. & Date	Sanctioned Amount		
						Non-Recurring	Recurring	Total
8	Asporin Function in Aortic..... And Calcification	UGC-MRP-Major	Santanu Chakra borty	DBS	F.No.43-61/2014(SR) dt 12.08.15	4,20,000	12,66,600	16,86,600
9	Regulation of mitochondrial bioenergetics ..... in T cell lymphomas.	UGC-MRP-Major	Piyali Mukherjee	DBS	F.No.43-44/2014(SR) dt 12.08.15	10,000	12,11,000	12,21,000
10	Protrusions; the role of actin cytoskeleton	UGC-MRP-Major	Pralay Majumder	DBS	F.No.43-565/2014 (SR) dt 30.10.15	2,00,000	9,30,000	11,30,000
11	Understanding the Molecular Crosstalk ... indeveloping B-Cell Lymphomas.	Well come Trust/ DBT India Alliance	Abhik Saha	DBS	IA/I/14/2/501537 dt 13.07.15	135,70,000	222,68,792	358,38,792
	<b>Department wise Total</b>					<b>144,00,000</b>	<b>280,56,392</b>	<b>424,56,392</b>
12	UGC -CAS Phase-II	UGC-CAS	Dr. Joydip Mukhopadhyay	Geology	F.55085/CAS/2012(SAP-1) dt 16.06.15	–	10,84,433	10,84,433
	<b>Department wise Total</b>					–	<b>10,84,433</b>	<b>10,84,433</b>
13	UGC-BSR Research Start-Up-Grant	UGC	Dr. Ritaban Chatterjee	Physics	F.30-32/2015 (BSR) & dt -30.03.15	–	6,00,000	6,00,000
14	UGC-BSR Research Start-Up-Grant	UGC	Dr. Saumyadip Samui	Physics	F.30-32/2015 (BSR) & dt -30.03.15	–	6,00,000	6,00,000
15	UGC-BSR Research Start-Up-Grant	UGC	Dr. Suchhetana Chatterjee	Physics	F.30-32/2015 (BSR) & dt -30.03.15	–	6,00,000	6,00,000
16	Development Synthesis and .....Thin Film for Photovoltaic Devices.	UGC-MRP-Major	Dr. Arabinda Nayak	Physics	F.No.43-44/2014(SR) dt 12.08.15	2,20,000	9,71,000	11,91,000
	<b>Department wise Total</b>					<b>2,20,000</b>	<b>27,71,000</b>	<b>29,91,000</b>
	<b>Grand-Total-UGC</b>					<b>46,20,000</b>	<b>343,11,825</b>	<b>489,31,825</b>

Annexure 2

Projects completed in last four years

Sl. No	Title of the R&D project	Sponsoring agency	Project Investigator	Fund
1	Cytological .. of some Indian species of Ornithogalum	UGC	Dr. Madhubrata Chowdhury	675000
2	An Ergonomic ..remedial measures”	DST	Dr. Bijetri Bandyopadhyay	2908000
3	Studies towards .., furo-macrolides and their thiopheneanalogs	DST	Prof. Gandhi K. Kar	2300000
4	Interaction .. ionic liquids	DST	Prof. Bijan Das	3035000
5	Studies on ... aldehyde inter-mediate	CSIR	Prof. Gandhi K. Kar	1500000
6	Design .. Compounds to Study their	UGC	Dr. K. P. Bhabak	600000
7	Enhancement .... antioxidants towards cancer	DST	Dr. K. P. Bhabak	3500000
8	Studies towards ....furomacrolides as well as their thiophene and	CSIR	Prof. G. K. Kar	1080000
9	Studies towards furomacrolides as nuclear citreofuran	CSIR	Prof. G. K. Kar	700000
10	Folding studies on $\beta$ -sheet proteins	CSIR	Prof. D. K. Mondal	900000
11	Synthesis, ...ition metal mixed oxides	CSIR	Dr. U. C. Ghosh	1121400
12	Polymer inorganic ..... and their potential as nanodielectrics	CSIR	Dr. M. Biswas	1358000
13	Photoinduced ..Charge transfer complexes	DST	Prof. S. Ghosh	5200000
14	Photoinduced .. supramolecular systems, charge transfer complexes		Prof. S. Ghosh	1468000
15	Synthetic .... in the presence of ions occurring in the groundwater.	CSIR	Dr. U. C. Ghosh	608800
16	Studies on noble metal .... tumour cell.	WBHE	Dr. Snigdha Ganguly	88000
17	Characterization .. retardant and antioxidant additive for polymers	UGC	Dr. A. K. Ghosh	193000
18	Studies towards .. citreofurananalogue	CSIR	Prof. G. K. Kar	650000
19	“Paleoseismic .. from other occurrence”	MoES	Dr. Gautam Deb	1705000
20	Geochronology .. early Precambrian crustal evolution.	TCD, Ireland	Prof. Joydip Mukhopadhyay	600000
21	Sedimentological Controls On Uranium .. Basin.	BRNS, DAE	Prof. Joydip Mukhopadhyay	700000
22	Mineralogical and .. subcontinental mantle.	DST as M	Dr. Arijit Ray	50000
23	Mobilization of an .. Orissa	CSIR	Dr. Sankar Bose	600000
24	Lunar Geology around Kopff crater.. Chandrayaan – 1 Mini SAR joint collaborative study.	DAE	Dr. Nilanjan Dasgupta	Nil
25	Sedimentary ...Precambrian sedimentary rock record	DST	Dr. Sampa Ghosh (Prof. Joydip Mukhopadhyay)	140000
26	Stratigraphic, Structural .., Singhbhumcraton	DST, Major	Dr. Gautam Ghosh	170000

Sl. No	Title of the R&D project	Sponsoring agency	Project Investigator	Fund
27	Structural and .. belt boundary	DST, Major	Dr. Gautam Ghosh	1068000
28	Study of the Sub-Himalayan .. of Subathu basin.	MoES	P. Dasgupta,	
29	Management performance of Arsenic saturated solid/ sludge material	DST	Pampa Bhattacharya, Prof. J Mukhopadhyay	600,000
30	Mangalkaby : Adhunikata O Punarman	UGC	Dr. Sandip K Mondal	1020000
31	Petrological, geochemical and paleomagnetic studies of mafic dykes around Chaibasa, Jharkhand, India: Implication for Meso- to Neo Proterozoic mantle processes in Eastern Indian Shield.	DST Major	Dr. Arijit Ray as Mentor	120000
32.	Analyzing nature of demand for medical care in India: A micro-level analysis	ICSSR	Dr. Mousumi Datta	3000
33	Hindi, Bangla Aur Bangladeshi Upanyason mein Bharat Vibhajan ki Trasadi Evam Sanskritik Asmita Ka Nirman	UGC	Dr. Tanuja Majumder	482000
34	Contemporary North-Eastern Literature	GSDC	Dr. Tanuja Majumder	189000
35	History of North-Eastern Literature	GSDC	Dr. Tanuja Majumder	189000
	<b>Total</b>			<b>347330200</b>

## CRITERION IV

### Infrastructure and Learning Resources

#### 4.1 Physical Facilities

##### 4.1.1 How does the university plan and ensure adequate availability of physical infrastructure and ensure its optimal utilization?

- The university houses state-of-the-art academic and allied infrastructure including living space, activity arena, facilities, and amenities on the campus. The university has a policy of upgradation and maintenance of physical infrastructure. For this purpose, a statutory committee on Planning and Development has been constituted with members from academic and administrative departments. The committee invites requisition and future plans on infrastructure from all the departments and sections periodically. The committee meets at least six times a year and takes up each proposal for preparing the action plan, budget and technical plans to ensure the fulfilment of the need only after it ensures that the existing physical infrastructure is optimally utilised. The recommendations of the Committee are reported in the university Governing Body for approval.
- The university main campus is situated at the heart of the city on a 14.2 acre area that includes the university Main Office, Academic Departments, Libraries and the Boys' Hostel. The Main Building was established in 1876; subsequently, the Baker Laboratories came up in 1913, Derozio Building in 1960s and Netaji Subhas Building in 1992. The Eden Hindu Hostel (estd. 1886) is attached to the Main Campus.
- The century-old academic buildings are all heritage buildings and no external modifications are allowed on these buildings. With the transformation of the university, the rich laboratory and teaching resources of the erstwhile Presidency College are now being redesigned and renovated according to the need of new university departments. Some of the initiatives taken in recent times have added additional space and integrated some laboratories:
  - a. Mezzanine floors are being added to the high ceilinged Main Building and Baker Laboratories. An additional space of about 20% of the existing space has been added.
  - b. Major renovation is in progress for the integrated Biological Sciences laboratories. A Central Instrumentation Facility (CIF) has been created for Biological Sciences by renovation and redesigning of the existing laboratories.
  - c. A mezzanine space has created provisions for faculty office in the Main Building for the Humanities faculty
  - d. In each department one class room (preferably lecture theatre) has been converted to e-class room with digital projections, wi fi connectivity etc.

Considering the future expansion programme and university outreach, two additional campuses have been planned:

- The Rajarhat campus (10 acre)
- Himalayan Centre for Presidency University at Dow Hill Educational Hub, Kurseong (2.5 acre at first phase)



Work is in progress in both places. Architectural design and building plans have been prepared and are now with the competent authority for construction.

The available facilities and laboratories are planned to cater the need of all the stakeholders. Adequate usage is ensured for laboratory equipment through time sharing, dedicated technical assistance and for some equipment with appointing experts for on-hand training to students and proper maintenance of high-value equipments. The equipment are covered under annual maintenance contract with the service providers to ensure maximum run time.

**4.1.2 Does the university have a policy for the creation and enhancement of infrastructure in order to promote a good teaching-learning environment? If yes, mention a few recent initiatives.**

- It is a part of university development policy to create and enhance infrastructure facilities for promoting state-of-the-art teaching learning environment in the campus. The Statutes provide guidelines for the creation and enhancement of the infrastructure and teaching learning environment. The committee on Planning and Development is the nodal body to formulate and execute the plans for infrastructure and teaching learning resources. Moreover, the basic framework for teaching learning environment is guided by the respective faculty councils. Faculty Councils periodically evaluate the need and future programme for enhancing the teaching learning resources. The plans are then taken up by the Planning and Development Committee for further execution upon ratification by the Governing Body, the apex decision making statutory body of the university. In last two years the PDC has initiated massive infrastructure upgradation for establishing good teaching learning environment.

**4.1.3 How does the university create a conducive physical ambience for the faculty in terms of adequate research laboratories, computing facilities and allied services?**

- The university inherited a rich and traditional laboratories and libraries in both Sciences and Humanities. The laboratories built over centuries have already earmarked and required space for pursuing research at Master's as well as at doctoral levels. Over the years with the funding from central agencies such as DST-FIST, UGC-CAS, DBT-Builder, BRNS and WB State a basic infrastructure for research has been created. The new faculty of the University further planned state-of-the art laboratories according to priority areas in teaching-learning and research. The university procures tools and equipment for research laboratories using university research funds and grants available from other external funding bodies to cater the research needs of the students and faculty members. The university encourages faculty members to apply for external grants, major and minor research projects from different funding agencies like UGC, DST, DBT etc. The university provides power supply, space furnished with modern laboratory infrastructure and appliances, air-conditioning (wherever required).
- The university has a very efficient IT-infrastructure. The entire campus is a wi-fi enabled zone with high-speed NKN connectivity. Every student, teacher and staff of the university can have access with a proper user id. The connectivity is also provided through mobile handsets. Each department has a computer centre for students. Major computer centre and E-classroom is attached to the Science Library. Computing hardware and software, and a round the clock high-speed (1GBps NKN) wireless network connectivity are all supported by the university. Moreover, university has also equipped the library with e-resources, e-journals and partial WEBOPAC facility.
- A major project has been underway for creation of space for new faculty and new research laboratories through adding mezzanine floors in the old high ceilinged halls of the Main Building and the Baker Laboratories. This has been done as a project of restoration of the heritage building as well as adding state-of-the-art facility without disturbing the heritage structure.

## Presidency University

Some Laboratory facility currently available in campus:

- UV-VIS-NIR Spectrometer - Spectroscopic measurements
- Thin film deposition unit - Thin film deposition
- Electrochemical Analyzer - Electrochemical analysis
- SAXS - X-ray diffraction analysis
- Flow cytometer- Laser based cell counting/cell sorting
- Chemi DOC- Imaging DNA/Protein Gel
- FPLC- Fraction collection/Purification
- UV-Spectrometer- Intensity measurements
- Phase contrast Microscope- Microscopic measurements
- SEM-EDS
- WD-XRF
- Rock Grinder
- Petrothin
- Heavy-media mineral separation Lab
- Petrology Microscope Laboratory
- RS-GIS Lab

### **4.1.4 Has the university provided all departments with facilities like office room, common room and separate rest rooms for women students and staff?**

- Every department has a separate office space well equipped with networking computers and printer facility. Since the campus has limited space for restrooms in each department and because of the small area, a central common room with resting facility and gym equipment have been created for the girl students. Separate restrooms are also provided for female staff members.

### **4.1.5 How does the university ensure that the infrastructure facilities are disabled-friendly?**

- The university has adequate arrangement for disabled students and staff. Such facilities include elevators, toilets and ramp in every building. Library has a limited collection of audio resources for visually challenged students.

### **4.1.6 How does the university cater to the requirements of residential students? Give details of**

- Capacity of the hostels and occupancy (to be given separately for men and women)
- Recreational facilities in hostel/s like gymnasium, yoga centre, etc.
- Broadband connectivity / wi-fi facility in hostels.
- Transportation facility

Hostels	Capacity	Facility
Boys' Hostel : Eden Hindu Hostel (estd. 1886)	219	<ul style="list-style-type: none"> <li>well-equipped gymnasium</li> </ul>
		<ul style="list-style-type: none"> <li>two libraries, one for text books and the other for fiction and valuable journals</li> </ul>
		<ul style="list-style-type: none"> <li>a 75 seater common room/TV room.</li> </ul>
		<ul style="list-style-type: none"> <li>a 100 seater dining hall with three canteens.</li> </ul>
		<ul style="list-style-type: none"> <li>meeting room.</li> </ul>
		<ul style="list-style-type: none"> <li>Three guest rooms with community refrigerator, water purifier and coolers are available .</li> </ul>
		<ul style="list-style-type: none"> <li>Residential flats are provided for superintendent, assistant superintendent and residing teacher in the hostel complex</li> </ul>
Girls' hostel: 175th Anniversary Girls' Hostel	175	<ul style="list-style-type: none"> <li>Well equipped library</li> </ul>
		<ul style="list-style-type: none"> <li>TV room</li> </ul>
		<ul style="list-style-type: none"> <li>Gymnasium</li> </ul>
		<ul style="list-style-type: none"> <li>Communal refrigerator</li> </ul>
		<ul style="list-style-type: none"> <li>Bus service between the hostel and the University</li> </ul>
		<ul style="list-style-type: none"> <li>Water cooler and purifiers</li> </ul>
		<ul style="list-style-type: none"> <li>Sanitary Napkin Vending Machine</li> </ul>
		<ul style="list-style-type: none"> <li>Well equipped sick room, doctor on-call facility and tie-up with multi-speciality hospital for emergencies.</li> </ul>
		<ul style="list-style-type: none"> <li>Residential flats for superintendent and matron in the hostel complex to enable proper monitoring of the hostel.</li> </ul>

**4.1.7 Does the university offer medical facilities for its students and teaching and non-teaching staff living on campus?**

- University has an agreement with the neighbouring Calcutta Medical College for any emergency medical facility for students and staff living on campus or outside.
- In critical situations, the university also provides assistance to students for treatment in some selected private/state run hospitals in the city.
- A group medical insurance scheme has been subscribed by the university for staff.

**4.1.8 What special facilities are available on campus to promote students' interest in sports and cultural events/activities?**

- ▶ Sports: Games and sports activities are planned throughout the year by the Students' Union. The University provides following facility to encourage games and sports:
  - A full-size football and cricket ground and tracks for all athletic events inside the campus
  - A dedicated sports department under the supervision of teacher-in-charge takes care of the planning and need for games sports.

## Presidency University

- An indoor badminton court, and table tennis etc.
- Sports, football, cricket tournaments, badminton and TT tournaments are arranged annually
- ▶ Cultural Events: The campus is always vibrant with cultural and co-curricular activities. University has following facility to promote such events:
  - A 700-seater fully airconditioned auditorium: Derozio Hall
  - A 100-seater airconditioned gallery for conference/seminar/special events: AJC Bose Auditorium
  - A 150 seater Lecture Theatre for organizing Quiz, Debate and elocution events: PLT-1
  - A 30 seater conference room for debate, group discussion and campus recruitment events.: Bankim Sabhagriha

## 4.2 Library as a Learning Resource

### 4.2.1 Does the library have an Advisory Committee? Specify the composition of the committee. What significant initiatives have been taken by the committee to render the library student/user friendly?

- The Library Advisory Committee (LAC) was formed on 17 March 2015 (No PU/Admin-36(B)/03-15) to replace the Library Steering Committee set up earlier. It is chaired by Professor Anuradha Lohia, Hon'ble Vice-Chancellor.
- LAC has Sm Swagata Das Mukherjee former Librarian, Joykrishna Public Library, Uttarpara, as Chief Advisor, The other members are Professor Swapan Chakarvorty, former Director General of the National Library and currently Kabiguru Rabindranath Tagore Distinguished Chair Professor in the Humanities, Presidency University; Dr. Arun K. Chakraborty. Director General, Raja Rammohun Roy Library Foundation along with the Registrar; the Professor-in-charge (Library Services), the Senior System Analyst and Assistant Librarians.
- The Library Advisory Committee meets frequently to decide and deal with important matters related to library development.

Significant initiatives have been taken by the committee to render the library student/user friendly:

The Library System consists of:

- o Arts Library-Main, Arts Library-Annex,
- o Science Library (Central Library),
- o Departmental/ Seminar Libraries in each department

The following initiatives have been taken by the Library Advisory Committee to render the library user friendly:

- User Awareness Services: User Awareness Services are provided very frequently to the users.
  - o Instruction on display boards
  - o Trained staff to assist the users as and when required
  - o Online instructions made available in the web pages of the library
  - o User awareness through e-mail, User awareness programmes
  - o Rare Collection/ Archival Material Section

- o E-Resources access
- o Institutional Repository (Printed Documents/Books):
- o Career Guidance Section
- o Recreation Section
- o Online Reference Service/Ask – a-Librarian
- o Library Webpage:
- o Current Awareness Service
- o Online Forms: Online different forms are available in the Library Webpage for the users’ community:  
<http://presiuniv.ac.in/web/library/forms.php>
- o Recommendation for Books Online
- o Online Public Access Catalogue (OPAC)
- o Library facilities for outside members
- o Turnitin Anti-plagiarism Software

**4.2.2 Provide details of the following:**

- Total area of the library (in Sq. Mts.)

Library	Sub-Area	Area in Sq. M.
Arts Library – Main	Book Stack with Mezzanine	16.150
	Book Stack	69.130
	Reading Room	81.030
	Circulation Section	81.100
	Delivery Section	69.580
	Asst. Librarian’s Room	16.260
	Book Stack with Cubicle & Mezzanine	63.410
Arts Library – Annex	Book Stack with Mezzanine	62.880
		112.940
Science Library	First Floor	586.040
	Second Floor	586.040
	Third Floor	586.040

- **Total seating capacity:** 135 seats for reading purpose in Arts and Science Library
- **Working hours (on working days, on holidays, before examination, during examination, during vacation)**
  - o Arts Library - 10am to 5 pm on working days
  - o Science Library - 10am to 5 pm on working days
  - o Seminar/Departmental Libraries – 10am to 5 pm on working days

## Presidency University

- o Hostel Library - 8pm-10pm and 11pm-7am
- **Layout of the library (individual reading carrels, lounge area for browsing and relaxed reading, IT zone for accessing e-resources):** Displayed
- **Clear and prominent display of floor plan; adequate sign boards; fire alarm; access to differently-abled users and mode of access to collection:** Displayed

### 4.2.3 Give details of the library holdings:

#### a) Print (books, back volumes and theses)

##### Books:

Science Library	44087
Arts Library	143238
Total	187325

#### b) Average number of books added during the last four years: - 5000+

#### c) Non Print (Microfiche, AV)

- i. NIL
- ii. Some audio books may be procured for Visually impaired students

#### d) Electronic (e-books, e-journals)

##### E-books Subscribed/Purchased:

- Oxford Reference (132 books)
- Oxford Scholarship ( 192 Books)
- Cambridge E-Books (1306 Titles)

##### E-journals accessible through UGC-Infonet:

- Springer E- Journals Database (2336 titles along with books and others)
- APS E-Journals Database (13 Titles)
- Wiley E-journals (908 titles)
- American Chemical Society Journals (55 Titles)
- Oxford University Press E-Journals (206 Titles)
- Project Muse (493 Titles)
- Economic and Political Weekly
- JSTOR (2585 titles)
- ISID (Bibliographic Database)

##### E-journals subscribed:

- Science Direct (624 Titles)

- Nature Group of Journals (10 titles)
- Royal Society of Chemistry (25 Titles)
- Science Magazine (from AAAS) (with archive since 1997)

**E-databases subscribed**

- Early English Book Online (131,226 records)
- Nineteenth Century Collection Online – British Theatre , Music and Literature
- MathSciNet

**Open Access e-Resources:**

<http://presioniv.ac.in/web/library/openaccesshome.php>

**Research Guides:**

- Subject Guide: <http://presioniv.ac.in/web/library/subjectguide.php>
- General Guide: <http://presioniv.ac.in/web/library/generalguide.php>

**e) Special collections (e.g. text books, reference books, standards, patents)**

Reference Books like dictionary, encyclopedia, handbook, etc. : 5600 (approx)

**f) Book Banks : No**

**g) Question Banks : Yes**

**4.2.4 What tools does the library deploy to provide access to the collection?**

- OPAC : OPAC can be accessed from the desktops available inside the libraries. Electronic Resource Management package for e-journals :J-gate e-resource search tool is accessible due to which users can search e-resources through Single Gateway from Campus Only. E-journals can be searched Title wise, Publisher wise, Subject wise through the links provided in the library web page.
- Federated searching tools to search articles in multiple databases
- University has recently installed New Genlib Library Automation Software. It is in implementation and experimental stage. Federated search is possible to some extent with this software.
- Library Website: A website for library: <http://presioniv.ac.in/web/library/aboutlibrary.php>.
- In-house/remote access to e-publications
- Users are able to access e-resources In-house (Campus access) as well as through remote access with the help of VPN.

**4.2.5 To what extent is ICT deployed in the library? Give details with regard to**

- **Library automation:** Data Entry, Cataloguing (OPAC), Circulation, Membership, Report Generation
- **Total number of computers for general access:**10 computers for accessing OPAC and e-journals.
- **Total numbers of printers for general access:** 02
- **Internet band width speed:** 1 GBPs

## Presidency University

- **Institutional Repository:** Many rare documents have been digitised in the CD/DVD format and are accessible by the users. 200DVDs/CDs are available in the Digital Library Section.
- **Content management system for e-learning: Subject Guide:** <http://presiuniv.ac.in/web/library/subjectguide.php>; General Guide:<http://presiuniv.ac.in/web/library/generalguide.php>
- **Participation in resource sharing networks/consortia (like INFLIBNET):** Access to e-resources through UGC INFONET has been made available through links provided on Library web page.

### 4.2.6. Provide details (per month) with regard to

- Average number of walk-ins -3900 (approx)
- Average number of books issued/returned - 2000 (approx)
- Ratio of library books to students enrolled : 130:1
- Average number of books added during the last four years- 5000
- Average number of login to OPAC :3000
- Average number of login to e-resources :Table#
- Average number of e-resources downloaded/printed:
- Number of IT (Information Technology) literacy trainings organized:
- login to e-resources#

Name of the Resources	Year 2014	Year 2015
Jstor	24212	21056
Springer Link	3066	3868
Wiley-Blackwell	2716	2751
Oxford University Press	2057	1820
Project Muse	733	896
American Chemical Society	Not Subscribed	2264
APS	Not Subscribed	861
Average	6557	4788

### 4.2.7 Give details of specialized services provided by the library with regard to

- **Manuscripts:** Manuscripts have been preserved (laminated and in bound state) separately in the Archival section. Users are allowed to get access to them with special permission. Photography of manuscripts is allowed with prior permission.
- **Reference:** Separate sections have been created for reference materials for which only reading service is allowed. Users can ask for information through e-mail with Ask-a-librarian online reference service facility.
- **Reprography/Scanning:** Photography and scanning are allowed with permission depending on the physical condition of the documents and without violation of Copy Right Act.
- **Inter-library Loan Service:** Scanned copy/photographs of certain documents are sent through e-mail on demand to any person with prior permission.



- **Information Deployment and Notification:** Online notices are served to reach to the members of the libraries. Notices are also displayed in the notice boards.
- **OPACS:** Users can access OPAC from library premises. Very recently New Genlib Library automation software has been installed. It is in implementation and experimental stage. WebOPAC will be made available after successful implementation of NewGenLib.
- **Internet Access:** Provided through Digital Library Section for academic use only
- **Downloads:** Provided on demand as permissible under Licence agreement
- **Printouts:** Printouts of e-resources and digitised resources are provided on demand as permissible under Copy Right Act
- **Reading list/ Bibliography compilation** Provided on demand
- **In-house/remote access** to e-resources In house access provided through IP based service. 24 hrs x 7 days' access provided through VPN.
- **User Orientation:** User Awareness Services are provided very frequently to the users.
  - Instructions are put up on display boards.
  - Trained staff assist the users as and when required.
  - Online instructions are made available on the web pages of the library.
  - Users are informed of developments (such as activation of e-resources, new acquisitions) by the library staff through e-mail.
  - Book jackets of newly procured books are displayed on Display Boards to inform users of new arrivals.
  - List of new arrivals are also given online for maximizing usage.
- **Assistance in searching Databases:** Instruction on display boards are provided. Trained staff also assists the users as and when required. Online instructions are also made available in the web pages of the library (eg. How to search card catalogue, how to search OPAC). J-gate e-resource search tool has been made accessible, due to which users can search e-resources through Single Gateway from Campus Only. E-journals can be searched Title wise, Publisher wise, Subject wise through the links provided in the library web page.
- **INFLIBNET/IUC facilities:** Access to e-resources through UGC INFONET

**4.2.8 Provide details of the annual library budget and the amount spent for purchasing new books and journals.**

Year	Amount in Rs. (for Arts Library)	Amount in Rs. (for Science Library)	Total Amount for Arts and Science Library
2012-2013	6,21,269.00	43,00,000.00	49,21,269.00
2013-2014	4,90,857.00	26,61,074.00	31,51,931.00
2014-2015	NIL	4,27,659.00	4,27,659.00
2015-2016	4,24,254 (books-excluding English, Pol. Sc& Philosophy) 74,70,330 (e-resources)		

## Presidency University

### 4.2.9 What initiatives has the university taken to make the library a 'happening place' on campus?

- Digital Library Section: Users can access information on WWW, E-resources, etc. in this section.
- Lounge Area: In the first floor of the Science Library, there is a lounge area where students can sit and discuss academic topics in a relaxed way.
- Interactive Learning Zone: There is a classroom in the ground floor of Science Library with interactive learning facility. Library also arranges poster competition and displays posters on display boards to make the users library-friendly.

### 4.2.10 What are the strategies used by the library to collect feedback from its users? How is the feedback analysed and used for the improvement of the library services?

- Users may send their feedback through e-mail.
- They can also drop their valuable suggestions in the suggestion/feedback boxes kept at the libraries.
- Online survey is made through Google form to get feedback from users.
- Survey with printed questionnaire is also done to collect feedback from users.
- Based on the subject of survey, the feedback is analysed in tabular form and library services are improved according to need of users.

### 4.2.11 List the efforts made towards the infrastructural development of the library in the last four years.

- Accession and cataloguing of old books as well as new arrivals
- Rearranging Reference section rare books and archive sections
- E-class room with video conferencing
- OPAC installation
- Subscription to e-recourses, e-journals

## 4.3 IT Infrastructure

### 4.3.1 Does the university have a comprehensive IT policy with regard to

- IT Service Management
- Information Security
- Network Security
- Risk Management
- Software Asset Management
- Open Source Resources
- Green Computing

### 4.3.2 Give details of the university's computing facilities i.e., hardware and software.

- **Number of systems with individual configurations**  
HP converged system to provide virtual server infrastructure.

- **483** Computing Systems catering to the needs of the Students, Faculties & Non teaching staff.
- **Computer-student ratio [total 145 lab computers]:** The computer student ratio is 2:1
- **Dedicated computing facilities:** 338 dedicated computing facilities available to faculties, staff & administrative officers.
- **LAN facility:** 10G optical fibre redundancy backbone for the entire campus. 1Gbps Ethernet connectivity for approximately 700 endpoints.
- **IP-Telephony** (installation in progress)
- **Proprietary software**

Name of the Software/tool	proprietary	Open source	Description
Geography			
ArcGIS	ESRI	No	Satellite image processing and mapping, Spatial analysis, 3D analysis (30)
Map Info	Map Info Corporation	No	GIS software (10)
NVivo	QSR International	No	Qualitative Data analysis (1)
MATLAB	Mathwork	Yes	Programmaming
Economics			
STATA Intercool Version 13	Yes		Statistical software
SPSS	Yes		Statistical software
R		Yes	Statistical software
DBS			
Discovery Studio	Perpetual license		One user only
Sybyl-X	Perpetual license		One user only
Modeller 9.15	Academic license	Yes	Standalone
HEX		Yes	Standalone
SAMTOOLS		Yes	Standalone
BAMTOOLS		Yes	Standalone
BOWTIE		Yes	Standalone
FASTQC		Yes	Standalone
VELVET		Yes	Standalone
VARSCAN		Yes	Standalone
PHASE		Yes	Standalone

- Number of nodes/ computers with internet facility: Approximately 1511.
- Any other (please specify): Presidency University has transformed its traditional data centre to a Software Defined Data Centre for management, automation and orchestration of the IT systems and resources. The university has upgraded the campus wide LAN infrastructure along with extending Wi-Fi facility to

## Presidency University

almost every corner of the campus. The IT equipment and resources implemented are robust, scalable and flexible towards catering to future expansion plan of the University. The central network and server system include following components.

- HP Converged System with an objective to reduce the cost and complexity of data centre operations and maintenance.
- VMware virtualization to take advantage of consolidation and resiliency of the IT infrastructure.
- Microsoft Active Directory to provide secure & central authentication service to access the University network.
- HP Network Node Manager I (NNMi) for efficient monitoring of the University network.
- HP Network Automation (NA) for efficient management of the University network.
- HP SiteScope for efficient monitoring the availability and performance of the distributed IT infrastructure.
- HP Server Automation as an important system management and IT automation tool that simplifies and reduces the time needed to manage the physical and virtual servers throughout their lifecycle.
- HP Operation Orchestration (OO) to manage the automation of IT infrastructure and operations more efficiently HP Operation Orchestration (OO) to manage the automation of IT infrastructure and operations more efficiently
- HP Cloud Service Automation (CSA) to automate the deployment of on premise infrastructure and application.
- HP Radia Client Automation (RCA) to simplify the complex task of managing the PC environment.
- HP Service Manager (SM) towards aligning enterprise IT services with primary focus on the delivery of the best services to end user.

### 4.3.3 What are the institutional plans and strategies for deploying and upgrading the IT infrastructure and associated facilities?

- Identity aware context aware network access.
- Mobile device on boarding for allowing them to intranet facilities.
- Network admission control via posture verification & remediation.
- Redundant Wireless LAN controller to add fault tolerance in wireless network.
- Back up storage hardware with back up & restoration software.
- Adding more computation power to the Blade chassis.
- Adding Desktop based & room based collaboration system.
- High performance computing clusters.
- Web collaboration facilities for distance learning.
- Digital classroom for providing digital environment to traditional classroom, session recording, digital content delivery, interactive remote classrooms.
- Campus converged core switch.

- Number of IP phone extension will be increased.
- Enhancing current 10 Gbps network to higher capacity
- Setting up a modest high performance computing facility
- Setting up number of PC clusters both at departmental level and centrally administered for the students.
- Upgrading power backup plants
- upgrading the hardware of the existing PCs
- Procuring campus licences for some software that are used by a wider student and teaching community such as Adobe Illustrator, Adobe Photoshop, statistical software like SPSS, Matlab and bibliographic management software like Endnote.

**4.3.4 Give details on access to on-line teaching and learning resources and other knowledge and information database/packages provided to the staff and students for quality teaching, learning and research.**

- On-line e-resources from library :

**E-books Subscribed/Purchased:**

- ▶ Oxford Reference (132 books)
- ▶ Oxford Scholarship ( 192 Books)
- ▶ Cambridge E-Books (1306 Titles)

**E-journals accessible through UGC-Infonet:**

- ▶ Springer E- Journals Database (2336 titles along with books and others)
- ▶ APS E-Journals Database (13 Titles)
- ▶ Wiley E-journals (908 titles)
- ▶ American Chemical Society Journals (55 Titles)
- ▶ Oxford University Press E-Journals (206 Titles)
- ▶ Project Muse (493 Titles)
- ▶ Economic and Political Weekly
- ▶ JSTOR (2585 titles)
- ▶ ISID (Bibliographic Database)

**E-journals subscribed:**

- ▶ Science Direct (624 Titles)
- ▶ Nature Group of Journals (10 titles)
- ▶ Royal Society of Chemistry (25 Titles)
- ▶ Science Magazine (from AAAS) (with archive since 1997)

**E-databases subscribed:**

- ▶ Early English Book Online (131,226 records)

## Presidency University

- ▶ Nineteenth Century Collection Online – British Theatre , Music and Literature
- ▶ MathSciNet
- ▶ Open Access e-Resources: <http://presiuniv.ac.in/web/library/openaccesshome.php>

### Research Guides:

- ▶ Subject Guide: <http://presiuniv.ac.in/web/library/subjectguide.php>
- ▶ General Guide: <http://presiuniv.ac.in/web/library/generalguide.php>
- ▶ Special collections (e.g. text books, reference books, standards, patents)
- Providing dedicated software to faculty members and students (multiuser licence)
- Open source Learning Management Software for course content development and on line teaching.

### 4.3.5 What are the new technologies deployed by the university in enhancing student learning and evaluation during the last four years and how do they meet new / future challenges?

- Online marks submission portal
- Admission form online
- PC classroom, Language lab e-classroom in several departments with fixed multi-media projectors and audio system
- Campus wide State of the art cloud based video conferencing facility [Video] using NKN Network.
- Open source Learning Management System (LMS) such as Moodle which includes student dashboards, progress tracking and support for multimedia classes. Helps interaction between students and teachers outside stipulated class hours. Makes evaluation procedure simple as it has the provision for the students to submit their assignments online. Teachers can benefit from the plagiarism detection tools in LMS which ensures academic ethics in the learning process.

### 4.3.6 What are the IT facilities available to individual teachers for effective teaching and quality research?

- Desktop PC and laptop with round the clock high-speed NKN connectivity in secure university network
- Access to e-journals and other e-resources
- Dedicated software for teaching modules as per requirement
- Learning Management Software (Moodle-LMS)

### 4.3.7 Give details of ICT-enabled classrooms/learning spaces available within the university? How are they utilized for enhancing the quality of teaching and learning?

- E classrooms with projection system and round the clock high-speed wi-fi connectivity in all departments
- E-class-room with and video calling facility in one room

### 4.3.8 How are the faculty assisted in preparing computer- aided teaching-learning materials? What are the facilities available in the university for such initiatives?

- University all hardware and software support to faculty members to create course materials, lecture presentation, and e-resource access.

- E-learning is introduced at different extent to deliver part of a course. The Moodle LMS recently employed. Moodle is a an open source modular system based on plug ins for different kinds of content and collaborative activities, delivering a powerful set of learner-centric tools and collaborative learning environments that empower both teaching and learning.

**4.3.9 How are the computers and their accessories maintained?**

- Technical vetting and procurement of new computers with at least 3 year OEM warranty.
- ICT technical support staffs resolve software related issues.
- Issues regarding hardware are resolved directly by the OEM.

**4.3.10 Does the university avail of the National Knowledge Network connectivity? If so, what are the services availed of?**

- The university does avail National Knowledge Network connectivity.

Two services:

- i) NKN Connectivity with 1 Gbps
- ii) Cloud based video desktop software for online teaching and learning through NKN.

**4.3.11 Does the university avail of web resources such as Wikipedia, dictionary and other education enhancing resources? What are its policies in this regard?**

- The university avails the above mentioned web resources. Since, they are available free of cost, users can use the resources as per their own requirements.

**4.3.12 Provide details on the provision made in the annual budget for the update, deployment and maintenance of computers in the university.**

University allocates fund for ICT development under:

- FRPDF to individual faculty members for procurement of ICT hardware software and upgradation.
- The ICT-budget for upgradation and maintenance of the central IT backbone, departmental computer laboratories and dedicated course specific software, library software.

Actual spending in last three years (Rs in Lakh)

Financial Years	2012-13	2013-14	2014-15
FRPDF component for IT (approx)	59.14	125.39	148.17
ICT Infrastructure Development	33.67	3.11	33.34

**4.3.13 What plans have been envisioned for the gradual transfer of teaching and learning from closed university information network to open environment?**

- The university has elaborate plans to adopt state-of-the-art ICT facility for teaching, learning and bibliography. The steps already initiated with the inception of the open source LMS such as Moodle for on line teaching, evaluation, course material uploading, one-to-one web based teacher-student interaction beyond class hours. Some of the faculty members are participating in the e-pathshala programme for online course material preparation.

## Presidency University

### 4.4 Maintenance of Campus Facilities

#### 4.4.1 Does the university have an estate office / designated officer for overseeing the maintenance of buildings, class-rooms and laboratories? If yes, mention a few campus specific initiatives undertaken to improve the physical ambience.

- The maintenance of the university buildings, electrical installation is planned in the Planning Development Cell. The civil maintenance works are done through different agencies as per the recommendation of the PDC and the Finance Committee. Electrical installations are maintained by the PWD Electrical Cell. The Assistant Registrar and University Engineer supervise the maintenance works on regular basis.

#### 4.4.2 How are the infrastructure facilities, services and equipments maintained? Give details.

- Infrastructure facilities are maintained by the annual grant from the State Govt.
- Laboratory equipments are maintained through warranty and AMC from State Govt and also from the research overhead and special grants from funding agencies such as UGC, DST, DBT.

#### Expenditure in Maintenance in last three years (Rs in Lakh)

Maintenance	2012-13	2013-14	2014-15
AMC of Lab Equipments	0.29	4.72	1.64
Repair, Maintenance & Common Utilities & Services	14.47	25.17	34.69



## CRITERION V

### Student Support and Progression

#### 5.1 Student Mentoring and Support

##### 5.1.1 Does the university have a system for student support and mentoring? If yes, what are its structural and functional characteristics?

Presidency University drawing upon the centuries old legacy of Presidency College considers students as the heart of all its academic endeavours. The University carries forward the tradition of mentoring that characterised Presidency College since Derozio inspired Young Bengal movement. The teacher- student relationship in Presidency University follows the same tradition of close interaction inside and outside the classroom. In Presidency University there is a conscious effort to provide a formal structure to this age old tradition of mentoring and support to students. Towards that end the university statute includes the Office of Dean of Students directing reporting to the Office of the Vice Chancellor. The office of the Dean is the office exclusively geared towards responding to the needs of the student. The underlying philosophy being students should have a dedicated office to raise concerns and redressal of student issues should be one of the highest priorities of the University. This philosophy is reflected in the Act which provides Dean of Students with overall charge of all co-curricular activities related to students such as student's residence and health, student's aid, youth welfare activities, cultural activities and student societies, student council activities and elections, National Cadet Corps, National Service Scheme, counseling and monitoring, anti-ragging and Anti Harassment measures. The Dean of Students is also statutorily part of the Students' Welfare Board, Sports Board and the admissions committee.

To ensure academic mentoring and support the university has institutionalised a system of tutorials. Tutorials are outside classroom lecture discussion between teachers and students. A tradition of Presidency University, where teacher-student academic interaction occurred both inside the class and outside, the tutorial system aims to institutionalise the ethos of learning outside class lectures. In addition to tutorials, every department has its own seminar and workshop programmes aimed to broadening the academic exposure of the students. The Physics department of the university has a weekly colloquium that brings notable physicists from around the world to talk on diverse issues and expose the students to a world outside the formal syllabi. The English department has an event titled 'Talk of the Month' in which writers and scholars address students informally. Besides the departmental initiative aimed at academic mentoring the university has a Public Lecture series. The series of Public Lectures held in the university have seen the His Holiness the Dalai Lama, come and address the students and teachers of the university. Further, the university invited Dr Raghuram Rajan, Governor, RBI, Prof. J V Narlikar, Dr. Bimal Jalan, Prof. Gayatri Chakravorty Spivak, Prof. Sugata Mitra, Ruchira Gupta, Dr Sudha Murthy, Prof. Abha Sur, Prof. Mriganka Sur, Prof. Inder Verma and Prof. S R Kulkarni. The aim of the Public Lectures is to introduce issues of broader interest (outside disciplinary boundaries) to the students through national and global personalities and activists. In an earlier series in the winter of 2013-14, the speakers included Yuri Manin, Vladimir Voevodsky, Sankar Das Sharma, Gautam Basu, V S Sunder, Sudipta Sengupta, Shailesh Prabhu, Dipankar Das Sharma, Indra Vir Singh in the sciences, and Nicholas Roe, Amita Dutt, Nirmalangshu Mukherjee, Sugata Bose, Dilip Mookerjee, Rudrangshu Mukherjee, Jayanta Roy, Krishnan Srinivasan in the humanities and social sciences. Many of these lectures were webcast.

To support the academic and intellectual development of students the University follows a liberal policy of encouraging students run clubs and organisations. At present there are Literary Society, Debate Society, Quiz Society, Society for Paranormal Enthusiasts, Photography Club, Presidency College Cinematic Society, and

## Presidency University

Drama Society. Each of these bodies have a faculty as teacher-in-charge. These organisations and clubs are registered with the office of the Dean of Students which facilitates their activities. The functional activities of the student run bodies are fairly autonomous with faculty mentor acting as a guide.

The university has tied up with Ruby General Hospital (an ISO 9001) medical facility apart from West Bengal Health Service (Government of West Bengal Hospitals) to ensure medical facility to all students. Students can go to any of the mentioned medical centres and hospital and get treatment free of cost (university bears the expenses) just by showing their university ID cards. Health camps are organised within the University from time to time to raise general awareness and support students. Since examination related stress and contemporary lifestyle has often been highlighted as a cause of stress and health risks, there is facility for health and stress counselling for student.

Career Counselling and exposure to productive work is ensured by the university at two levels. The departments drawing on their rich alumni list encourage ex-students successful in their respective fields to return to their alma mater and address the present students like the geology department has instituted an informal arrangement whereby ex-students often address present students about their work and on going developments in the field of geology. Ex-students of Economics department have often come to address students and have provided them some ideas about the cutting edge research activities. At the level of the university, we have tied up with British Council to provide our students broader exposure. We have student exchange programmes with Groningen University, Netherlands; Trinity College, Dublin; Georgia State University, USA; SWAS, University of Cambridge, University of Anglia; Sciences Po. Paris (the 3rd best institution worldwide in Political Science), University of East Anglia, Hiroshima University, Japan; and Federal University of Minas Gerais, Brazil.

### 5.1.2 Apart from classroom interaction, what are the provisions available for academic mentoring?

Classroom teaching has been the strength of Presidency College for decades (notable teachers and alumni) as an undergraduate college under Calcutta University. The university also strives to retain its core strength in terms of classroom teaching. However there is also a conscious effort to move beyond classroom interactions to provide all round academic mentoring to students. The university has institutionalised teacher-student committees in every class to ensure that concerns of students are reflected at every level.

To ensure academic mentoring and support, the university has institutionalised a system of Tutorials. Tutorials are outside classroom lecture discussion between teachers and students. A tradition of Presidency University, where teacher-student academic interaction occurred both inside the class and outside, tutorial system is an effort to institutionalise the ethos of learning outside class lectures. Aside from the tutorial system, every department has its own seminar and workshop programme that is aimed towards broadening the academic exposure of the students. The Physics department of the university has institutionalised a weekly colloquium that brings notable physicists from around the world to talk on diverse issues and expose the students to a world outside the formal syllabi. Aside from the departmental initiative aimed at academic mentoring the university has a public lecture series.

The series of public lectures held in the university have seen the Honorable Dalai Lama, Prof. Gayatri Chakravorty Spivak of Columbia University, Prof. S. R. Kulkarni of California Institute of Technology, Prof. Inder Verma of Salk Institute of Biological Sciences, California, Prof. Mriganka Sur of MIT, Boston, Prof. Abha Sur of MIT, Dr. Sudha Murthy, Ruchira Gupta, Prof. Sugata Mitra, Dr. Bimal Jalan, Ex-Governor of RBI, Prof. Jayant Vishnu Narlikar, and Dr. Raghuram Govind Rajan, Governor, Reserve Bank of India come and address the students and faculties of the university. Students have attended a 'Literary Activism' symposium organised by the University of East Anglia and a Brain Awareness week. Presidency University and SPIC MACAY have organized programmes to relive "The Virasat Of India". The aim of the public lectures is to introduce issues of broader interest (outside disciplinary boundaries) to the students through national and global personalities and activists.

## Form of Academic Mentoring

### Department: Bengali

(1) Organisation of seminars, (2) Interdisciplinary Lecture Series eg. “Literature, Belief and Esthetics” by Prof, Swapan Chakraborty, Distinguished Chair Professor, (3) Participation in a number of inter-college academic seminars organised by institutions like Belur Vidyamandir, Jadavpur University, Rabindra Bharati University, etc.

### Department: Biological Sciences

(1) Nutritional survey and assessment of different physiological parameters such as anthropometry, hematological by undergraduate and postgraduate physiology students every year. (2) Visits to IICB conducted for undergraduate students of Human Physiology in 2013 and 2014. (3) Visit to neighboring research institutes like SINP in Kolkata for gaining hands on experience with sophisticated research instruments. (4) Organisation of guest lectures, and conferences. (5) Participation by students in various summer research fellowships to carry out short term (2 months) summer projects at different institutes like TIFR, NCBS, IISc, CCMB, IISER- Pune, IISER-Kolkata, JNCASR, Bangalore. etc. (6) Student outreach programme eg. “Brain Matters” with different schools in Calcutta. (7) Research activities in the lab and lab meetings (8) Journal clubs.

### Department: Chemistry

(1) Technical Seminars, (2) Projects, (3) Lab work, (4) Regular visits of the UG and PG students in the departmental research laboratories along with hands-on research experience with the research groups of the members of the faculty, (5) Organisation of “CHEMI-QUIZ”, an inter-College Quiz Competition by the third year B.Sc. Chemistry students.

### Department: Economics

(1) Organisation of lecture series by external experts, (2) Training / capacity building workshops, (3) Seminars and conferences, (4) Compulsory project papers at both UG and PG level

### Department: English

(1) Active participation of the students in the Literary Society, the Spook Society, the Debating Society, (2) Making of amateur short films, (3) Organisation of theatre festivals, (4) Seminars, Conferences, Lecture Series and Workshops (4) Organisation a ‘Talk of the Month’ series with novelist Kunal Basu inaugurating the series.

### Department: Geology

(1) Organisation of departmental seminars on topics of broad interests. (2) Participation of students in the functions of SPE and AAPG student chapters. (3) Participation in the geological programmes organised by other institutes, e.g., IIT, IISER, ISM, IISc. (4) Project work in industry during inter-semester breaks in the regular classes for more exposure.

### Department: Hindi

(1) Organisation of Student Seminars, (2) Organisation of Inter College & Universities Cultural meet on Hindi Diwas, (3) Organisation of seminars, special lectures, workshops, (4) Tours & Excursion.

### Department: History

(1) Organisation of conferences, workshops and special seminars and lectures e.g., the Professor Kuruvila Zachariah Memorial Lecture and the P. C. Sen Memorial Lecture. In collaboration with the Paschim

## Presidency University

banga Itihas Sansad, Kolkata, it organizes every year the Professor S. C. Sarkar Memorial Lecture (2) Educational trip to historical places in India, such as to Udaipur, Jaipur, Delhi, Agra, Ajanta, Ellora, Jabalpur, and Murshidabad. (3) Dissertation writing at the Undergraduate and Postgraduate Level. (4) Oral and written assignments and discussions with faculty.

### **Department:** Philosophy

(1) Seminars, Conferences, (2) Dissertations at the Undergraduate and Postgraduate Level.

### **Department:** Physics

(1) Weekly colloquium of eminent national and international speakers (2) Student Presentations in astro-particle tea journal club and at colloquium slots. (3) Student participation in local/national conferences. (4) Guided visits and academic trips for students in eminent laboratories/institutions eg. Inter-University Centre for Astronomy and Astrophysics (IUCAA) and Saha Institute of Nuclear Physics (SINP)(5) Visiting national labs, research institutes and execute extra-curricular research projects (6) Organisation of Seminars and Conferences

### **Department:** Political Science

(1) Neo ecclesia, various students' publications, (2) informal research, (3) Organisation of seminars and Conferences, (4) Out reach activities

### **Department:** Sociology

(1) Organisation of seminars and conferences, (2) Showing of films, (3) Dissertation at the undergraduate and postgraduate levels, (4) Fieldwork for undergraduate and postgraduate students, (5) Film-making, (6) Lecture series

### **5.1.3 Does the university have any personal enhancement and development schemes such as career counselling, soft skill development, career-path-identification, and orientation to well-being for its students? Give details of such schemes.**

The university has taken efforts to provide a well rounded education to its students. Teaching has been the forte of the university, drawing on the legacy of Presidency College. To supplement the strength of the academic institution, and groom our students a number of initiatives have been taken. The University has a placement cell under the Office of the Dean of Students. The placement cell is instituted in a manner to ensure greatest possible participation of the students (the stakeholders) in the process. The placement cell seeks to cater the need of every department through the respective placement coordinators. To ensure the development of soft skills the university has tied up with British Council and Alliance française du Bengale for language training,

The university has tied up with Ruby General Hospital (an ISO 9001) medical facility apart from West Bengal Health Service (Government of West Bengal Hospitals) to ensure medical facility to all students. Students can go to any of the mentioned medical centres and hospital and get treatment free of cost (university bears the expenses) just by showing their university ID cards. Boarders of the girls' hostel may use the facilities at the Bidhan Nagar State General Hospital. Health camps are organised within the University from time to time to raise general awareness and support students. Since exam related stress and contemporary lifestyle has often been highlighted as a cause of stress and health risks, there is facility for health and stress counselling for student.

University has proposed to develop an Innovation Club with the students having innovative ideas that might subsequently lead to development of entrepreneurship. An entrepreneurship programme has been held where students have met entrepreneurs from different fields as well as entrepreneurship management experts from different institutions.

Personal Enhancement/development Schemes for Students		Departments
1.	Summer research fellowships for short term summer projects at different institutes	DBS, Geology, Physics, Chemistry
2.	Interdepartmental faculty exchange between Geology and Geography in common areas of the curriculum such as: in RS-GIS, Cartography and Projection system, Petrology and geo dynamics.	Geography, Geology
3.	Special research laboratories exposing students to various areas within their discipline	DBS, Chemistry, Physics, Geology
4.	Dissertation writing, public speaking at presentations	Bengali, English, Hindi, History, Philosophy, Political Science and Sociology
5.	Development of Proficiency in Languages - English writing, French and German	GenED course offered at the Undergraduate level
6.	Sensitisation to various kinds of work done in the disciplines through seminars with experts, and discussion with faculty	All Departments

**5.1.4 Does the university provide assistance to students for obtaining educational loans from banks and other financial institutions?**

As a public university it is our foundational belief that access to education should be open and inclusive. Since its inception in 1817 Presidency in its various forms, has progressively expanded its ambit to include all section of society. To ensure that money does not act as a fetter to intellect, fees of the university as determined by Government of West Bengal is very low. Further there are number of scholarships and bursaries to help students. Although the university has no direct tie up with any financial institution to provide educational loans, all necessary support for student loan application is provided. The Controller of Examination Department and The Registrar’s Office have provisions for providing necessary documentation on a priority basis for such applications.

**5.1.5 Does the university publish its updated prospectus and handbook annually? If yes, what are the main issues / activities / information included / provided to students through these documents? Is there a provision for online access?**

The university publishes a brochure annually to inform the students about its course structure, fee structure and admission details. On the website of the university, there is a separate section for students where they get all updated details regarding admission, examination, attendance, detailed syllabus of Gen Ed and Major courses, conferences and seminars and other academic programmes to be held. It has a Dean of students’ corner where they get updated information on availability of different national and international fellowships, available student exchange programme, seminar and conferences to be held at other institutions, internship available, courses available at different national and international institutions and other extra-curricular activities where they may participate.

**5.1.6 Specify the type and number of university scholarships / freeships given to the students during the last four years. Was financial aid given to them on time? Give details (in a tabular form) for the following categories: UG/PG/M.Phil/PhD/Diploma/others (please specify).**

**Endowment Fund:** The university has more than 100 endowment funds for academically strong students. The university awards the toppers in different undergraduate major subject and postgraduate courses with cash prizes, book prizes and gold/silver medals out of such funds. It has endowment funds for financially

## Presidency University

poor but meritorious students. The university encourages meritorious students from outskirts by awarding them through such funds. There are endowment funds earmarked for encouraging meritorious students from the reserved category. Apart from encouraging meritorious students, endowment funds are allotted for student with best human quality, student with highest percentage of attendance, best all-rounder, curious and book loving reader, best field geologist and so on. There are provisions for providing assistance including contingencies to research scholars.

The university offers Student Aid, Free Studentship and Merit-cum-means scholarship in every academic year for its meritorious but financially weak students, at both the UG and PG levels.

**Student Aid:** Students belonging to the BPL category and securing a minimum of 65% marks or a GPA of 7.0 or above in the last qualifying or semester examination (as the case may be) are eligible to receive the scholarship. Aid of Rs. 1500/- per month for hostel students and 1000/- per month for day scholars is provided respectively.

**Free Studentship:** Students securing a minimum of 65% marks or a GPA of 7.0 or above in the last qualifying or semester examination (as the case may be) with a family income not exceeding Rs. 4000/- per month are eligible to receive the assistance. Under the scheme, only Tuition Fees are waived while all other fees are required to be paid by the students as per the norms of the University. No other student aid will be allowed for all those whose tuition fee is waived.

**Merit-Cum-Means Scholarship:** Students securing a minimum of 75% marks or a GPA of 7.5 or above in case of humanities and 80% marks or 8.0 and above in case of sciences in the last qualifying or semester examination (as the case may be) with a family Income not exceeding Rs.8000/- per month are eligible to receive the assistance provided they have a minimum of 75% of class attendance.

No student however, is allowed to enjoy more than one financial benefit, either from University or any government organizations or other agencies. All the applications are screened by a committee formed by the Hon'ble Vice-Chancellor and exceptional case, if any, is left to the discretion of the Hon'ble Vice-Chancellor.

A limited number of merit-cum-means scholarships and free studentships are available for the deserving and meritorious students whose parent's/guardian's monthly income does not exceed Rs. 25,000/- per annum.

In the academic year 2013-14: 16 (Sixteen)

In the academic year 2014-15: 52 (Fifty-two)

### **Recommended in the academic year 2015-16:**

Free Studentship : 07 [ Bengali: 02; Geology: 02, Hindi: 02, History:01]

Merit-cum-Means Scholarship: 10 [ Mathematics: 02, Bengali:08]

Students Aid: 07 [Biological science: 02, Mathematics: 01; Bengali: 02; Geography: 01, History: 01]

### **5.1.7 What percentage of students receive financial assistance from state government, central government and other national agencies (Kishore Vaigyanik Protsahan Yojana (KVPY), SN Bose Fellow, etc.)?**

The meritorious needy students at both the undergraduate and postgraduate levels may avail scholarships of the value Rs. 800/- from non-profit making organizations like Happy Calcuttans, set up by a group of alumni of the college. A limited number of Sheela Kanoria Foundation Scholarships of the value of Rs. 2000/- per month are available for disadvantaged female students. Students apply for the state government post matric scholarship and state government scholarships for the SC, ST students.

From the Geology department 2 students in 2014 and 1 in 2015 have qualified for INSPIRE fellowship. Four

PG 1st year students visited Hiroshima University, Japan under the SAKURA programme for three weeks in December 2015 and One PG 2nd year student (Santanu Ghosh) visited organic geochemistry facility at the Orebro University, Sweden for four weeks in 2014. Two research scholars (Proloy Ganguly and Sneha Mukherjee) received special research grant from Hiroshima University, Japan to visit and work in laboratories for a period of two weeks (March, 2015). One research scholar (Arnab Dasgupta) visited the same university as a part of DST-JSPS bilateral project. Another research scholar (Saheli De) visited the Fed University of Minas Gerais, Belo Horizonte, Brazil as a part of DST-Brazil Govt. bilateral project.

From the Physics department, three students, namely, Amitava Banerjee, Sunip Mukherjee and Kaustav Mitra got KVPY Fellowship. And four students -- Kaustav Mitra, Anwesh Majumdar, Puja Roy and Mr. Soumya Roy got received JBNSTS Fellowship.

From the Chemistry department, one UG student has been offered fellowships from three Universities (University of Massachussets, Dartmouth, USA; State University of New York, NY, USA & Tulane University, New Orleans, USA for the PhD programme. One UG student awarded Kishore Vaigyanik Protshan Yojona (KUPY) Fellowship in 2014-15

From the Mathematics department one student has qualified for JBNSTS in 2014.

From the Statistics department many UG passed out students have been successfully undergoing their PhD works with fellowship in different universities and institutes in USA.

**5.1.8 Does the university have an International Student Cell to attract foreign students and cater to their needs?**

To institutionalise the exchange of students the university has a committee exclusively dedicated to this purpose. The university has memorandum of understanding with Science- Po, Paris Georgia State University, USA, SOAS, University of London, Trinity College, Dublin among others. The Committee has successfully initiated student exchange. Three students of the U.G III batch Adrija Maitra, Arghya Bose, and Mehk Chakraborty spent a semester in Paris undertaking courses in Sciences Po, Paris. One student from the Sciences Po, Marshial Fournier de Saint Jean is presently taking courses in the Department of Political Science, Presidency University. In 2014 student delegation from Georgia State University came to the Department of Political Science as part of exchange programme. The department conducted a series of lectures to introduce the students to Indian politics.

**5.1.9 Does the university provide assistance to students for obtaining educational loans from banks and other financial institutions?**

The office of the Controller of Examination Department and the office of the Registrar have provisions for providing necessary documentation on a priority basis for such applications.

**5.1.10 What types of support services are available for**

**Overseas students:** The University encourages overseas student exchange. At present we have exchange programme with SOAS, Groningen University, Netherlands; Trinity College, Dublin; Georgia State University, USA; SWAS, University of Cambridge, University of Anglia; Sciences Po. Paris (the 3rd best institution worldwide in Political Science), University of Anglia, Hiroshima University, Japan; and Federal University of Minas Gerais, Brazil. In the case of GSU students came to Presidency, and in Sciences Po the student exchange has been mutual with two French students in presidency and 3 presidency students in paris). In case of foreign exchange students the University has waived fees as per reciprocal arrangements. The foreign students are provided accommodation in the University hostels and enjoy free transport between hostel and university like regular students. To institutionalise the exchange of students the University has a committee exclusively dedicated to this purpose.

## Presidency University

***Physically challenged / differently-abled students:*** To ensure equitable opportunities to education for all, the University is very serious about the concerns of differently abled students. Although at present the number of such students are few, the University is proactive in providing institutional facilities to encourage differently abled students. Despite being housed in a heritage structure with restrictions on construction, we have instituted lift in the historic main building of the university. The construction of lifts in the Baker Building and N.S Building are also underway. This will facilitate student access. The Central Library building has ramps and elevator. The examination rules provide for writers and library has some braille computer keyboards. The arrangements for differently abled students will receive a boost when digitisation and text to voice software are completed in the library ( a process we are working on). This will allow students to access digitised books and blind students to hear them. There are endowment funds for supporting meritorious students belonging to the SC category. Scholarship is being provided to a visually handicapped student under vice-chancellor's discretion.

***Students participating in various competitions/conferences in India and abroad:*** Students participating in various sports events organized by other institutions of national repute are often funded by the University (for Example, the athletic meet, Spardha organized by the BHU, The Marathon organized by the TATA steel.

***Health centre, health insurance etc.:*** There is a guideline for the Students' Medical Benefits for the hostel students. Residents of the girls' hostel may use the services of the government hospital in Bidhan Nagar. Under Vice Chancellor's discretion, the benefit applies to the non-boarders students too. Here, 'Medical benefit' means the benefit by way of either direct payment of a hospital bill by the University on behalf of a student or reimbursement of a part amount of a hospital bill paid by a student in accordance with the rules of the university. The BPL category students are exempted from paying any hospital expenses. The university has tie up with government hospitals and with some private hospitals where students may be immediately admitted in case of emergencies. The ambulance-on call facilities are available for the students. The above-mentioned benefits are provided for indoor / surgical treatment in the hospitals in respect of dengue, malaria, typhoid or similar infectious fever / disease, fatal injury to any part of the body caused by an accident; severe cardiac disease; any gynecological disease and any other major disease (if hospitalization and surgery is recommended by an authorized physician of the university and the same is approved by the Vice-Chancellor). For day scholars, university has agreements with the government hospitals where they may be admitted immediately in case of emergencies.

***Skill development (spoken English, computer literacy, etc.):*** Different departments have exclusively introduced Major papers on computer applications. In these classes, students start from learning the very basic ideas about computer applications. Later on they are given a hands-on training on how to handle, manage, present, analyse and interpret data using advanced software. The university has a 60 seater central computer laboratory dedicated for the purpose. Departments often organize workshop on data handling and introducing advanced software for the students (Economics Department 2011, 2014, 2015). Apart from this, many of the departments have their own computer laboratories. Department of English has initiated a GenEd course meant particularly for students who are not very fluent in English.

***Performance enhancement for slow learners:*** One of the core strengths of Presidency University is the wonderful and talented student body. Our students gain admission through demanding admission criteria that evaluates not only the board examination performance but also a demanding admission test performance. This policy has ensured a very high quality of students intake. The incidence of slow learners is very limited in the university. To help slow learners we have devised three level strategy: First at the departmental level the institution of tutorial system ensures outside class lecture interaction between faculties and students, Second, the examination system is structured in such a manner so as to provide maximum opportunity to students without year loss or lag; Thirdly it is our experience that while many slow learners are differently abled, a significant number are socially inhibited (first generation, poor household, and so on). To redress such social impediments we have remedial courses, fellowships, free studentships.



**Exposure of students to other institutions of higher learning/ corporates/business houses, etc.:** Presidency University was built on the idea of a global education where disciplinary and institutional boundaries would not act as an impediment to knowledge. Our courses, our institutional collaborations and our students reflect that exposure to other institutions of higher learning is not merely encouraged; it is structured within our daily activities. The lectures, departmental seminars, workshop with invited speakers from other institutions expose our students to outside academics. Science students have summer project at other laboratories (for details refer to the departmental report of Physics, Chemistry, Economics and Biological Sciences). Students of the Department of Biological Sciences are constantly encouraged to apply for various summer training and Visiting Students' Research Programmes in some of the leading research institutes of the country including IISC, TIFR, SINP, etc. Students are taken to such institute and given lab orientation from time to time.

Publication of student magazines :The Students' Union Council of Presidency University publishes Presidency College Magazine every year.

**5.1.11 Does the university provide guidance and/or conduct coaching classes for students appearing for Civil Services, Defence Services, NET/SET and any other competitive examinations? If yes, what is the outcome?**

In Presidency College, there was UGC-funded coaching and remedial classes for students. However that monetary support has not yet been extended to Presidency University. As such we have no formal arrangement for coaching classes for Civil Services, Defence Services, NET/SET and any other competitive examinations. The lack of formal and monetary resources has been negotiated through informal efforts by faculties. Some departments have held classes and lectures on subject specific NET/SET courses .

**Table : Outcome - Competitive Examinations**

	SET	NET	GATE	GRE	KVPY	JBNSTS	INSPIRE	Post Doctoral	Other
Total 2012 to 2015	11	116	31	27	2	2	22	14	154
(%)	2.9	30.6	8.2	7.1	0.5	0.5	5.8	3.7	40.6

**5.1.12 Mention the policies of the University for enhancing student participation in sports and extracurricular activities through strategies / schemes such as**

**Additional academic support and academic flexibility in examinations**

The university strictly follows the norms laid down by UGC for attendance and examination. This limits our capability to provide special privileges to student participation in sports and extracurricular activities. However to alleviate the situation in a transparent manner our examination system has been made very flexible and student friendly. Under the semester system students have the option of clearing examinations later without losing academic year. In addition the university conducts special supplementary examination for students with backlog in the final semester to prevent any loss of year.

**Special dietary requirements, sports uniform and materials or any other (please specify) :**

There is a department of sports and games, with staff and a teacher-in-charge who organize sports and games events in association with the office of the Dean of Students. This department arranges for provision of sports equipment and jerseys and maintenance of the playground. Annual Sports meets are held regularly. Two sports tournaments, the Presidency University Football League and the Presidency University Cricket League were constituted for the first time in 2012 and are carried out every year since then. Students are encouraged to participate in different national and state level meets. In some cases the expenditures are

## Presidency University

borne by the university. University is developing its own gymnasium in the campus. The work is in progress. There is a Games and Sports Endowment Fund with the university too.

### 5.1.13 Does the university have an institutionalized mechanism for students' placement? What are the services provided to help students identify job opportunities, prepare themselves for interview, and develop entrepreneurship skills?

The placement drive is organized at two levels. At the departmental level departments often contact directly with the recruiting companies. The Dean of Students office organize placement programme for all the departments of the university. It keeps on track with the potential recruiting firms and institutions. The liaison with the departments is maintained through the student placement coordinators from each department who are elected/selected by their respective departments. The DOS office organizes the placement programme for the students according to the needs of the corporates. Information regarding any such programme is immediately conveyed to the student coordinators and their queries, if any are immediately addressed after consultation with the companies. The office creates the database for the interested students and sends it to the corporates. Academic placements are also emphasized.

### 5.1.14 Give the number of students selected during campus interviews by different employers (list the employers and the number of companies who visited the campus during the last four years).

**Table: Students selected during campus interviews by different employers (indicative)**

	<b>Total (2012 to 2015)</b>
Number of Candidates placed in company/agency*	82
CSC/PSC	13
SSC	14
Others	50
Total	159

\*Some of the companies are:

Hindustan Zinc Ltd., Geological Survey of India, ONGC.

### 5.1.15 Does the university have a registered Alumni Association? If yes, what are its activities and contributions to the development of the university?

Presidency University has an active and lively Alumni Association. The Presidency College Alumni Association (PCAA) established in the year 1951 has evolved into the Presidency Alumni Association as the college transformed into university. The significant role of the Association over the years can be outlined as follows: It has been institution of several merit awards through endowment fund. The alumni have instituted over 150 merit awards and bursaries in curricular and extracurricular activities of the students. It created an endowment fund of Rs 1,00,000 for the Debate Competition between the past vs. the present students; and organizes events such as annual festival cricket match between past and. present students, Founders' Day celebration, seminar, cultural programmes to promote healthy interactions among present and ex-students such Udayan Mukherjee Memorial Debate, Annual 'Steamer' Get Together, Bijoyasammilani etc. It raises fund for the developmental activities of the university. Alumni has an own fund called Alumni Trust Fund. Trustees has been collected fund from the donations in interests. Alumni Association publishes 'Autumn Annual', the annual journal of the Alumni Association. It was first published in 1960, since that time the Autumn Annual published regularly.

Recent endowments received by the Alumni Association are as follows: (1) Dr. Sisir Kumar Mazumdar (Rs. 1 Lakh) for holding seminars every year, alternatively for science and arts subjects; (2) Prof. Gopendra Chandra Roy (Rs. 30,000) for awarding annual prizes in the form of books to the student securing first position in Physics honours; (3) Smt. Dalia Datta (Rs. 1 Lakh) in memory of her father Sri Satyabrata Ghosh, an alumnus of the college, for students securing highest marks in Part I and Part II examinations in Physics.

*Alumni News:* The first volume of this journal was published in 1951-52. This was edited by Prof. Somnath Maitra of the English Department. The second volume of this journal duly edited by the same editor was published in 1954. None of these volumes is at present available in the records of the Alumni Association or in the Presidency College library. Thereafter the literary activities of the Association had to wait till 1960 when the first volume of Autumn Annual, the annual journal of the Association was published.

**5.1.16 Does the university have a student grievance redressal cell? Give details of the nature of grievances reported. How were they redressed?**

Presidency University is yet to institute a central grievance redressal mechanism for students. However, the absence of a central body is addressed by multiple other mechanisms that provide students a platform to express their opinion and grievances. Every department has a student-teacher committee where students can raise their relevant issues. The delegation of grievance redressal at the departmental level provide accessible platform to students to raise and redress their grievances. Departmental and academic issues are addressed through the departmental teacher-student committee. Students can also raise their concerns with the office of the Dean of Students which is also mandated to look after all student related issues. Grievances related to examination can be directly raised with the office of the Controller of Examination with a time bound period of redressal. The existence of bodies such as PUCASH, Anti-ragging committee, Equal Opportunities Cell have mechanisms for students to express grievances.

**5.1.17 Does the university promote a gender-sensitive environment by (i) conducting gender related programmes (ii) establishing a cell and mechanism to deal with issues related to sexual harassment? Give details.**

The university has a committee against sexual harassment (PUCASH) which holds meeting regularly, takes complaints and is resolving issues. The committee has as its members the teachers of the university, an external member and a student representative. The Dean of Students acts as the member secretary of the committee. The complaints, if any are made directly at the office of the Dean of Students. Once, the complaints are filed, the committee sits for a meeting immediately to decide the future course of action. The aggrieved party and the students who are complained against are immediately called for an inquiry. The committee is ensuring enough publicity of the cell through organization of workshop, seminars, poster competition, students' debate competition etc. During 2014-15, a public lecture titled "As if women matter: Feminism beyond borders to tackle sex trafficking" was delivered by Ms. Ruchira Gupta, an Indian sex trafficking abolitionist, journalist and activist. PUCASH organized a poster competition for the university students in the month of January 2015 as a part of its efforts of gender sensitization. The students were encouraged to draw posters regarding gender equality in general. They were also encouraged to draw posters explaining what constitutes 'sexual harassment, and informing about the PUCASH and its contact details in particular. Prize-winning posters were printed and displayed in the campus (offices, departments, canteens, hostels etc.), as it is required by the law and to create gender awareness among the university community. A students' debate competition was organized by the cell on 1st October 2015 on "Pitribhoomi local will solidify gender binaries". Ever since its initiation, the committee received three complaints and the issues are resolved. The official website of the university has a section for PUCASH where students may get details about the activities of the cell.

## Presidency University

### **5.1.18 Is there an anti-ragging committee? How many instances, if any, have been reported during the last four years and what action has been taken in these cases?**

The students of the university have to fill up an anti-ragging declaration form while being admitted to the university. The university has an anti-ragging committee which holds meeting regularly, takes complaints and is resolving issues. The committee has as its members the teachers of the university, an external member and a student representative. The Dean of Students acts as the member secretary of the committee. The complaints, if any are made directly at the office of the Dean of Students. Once, the complaints are filed, the committee sits for a meeting immediately to decide the future course of action. The aggrieved party and the students who are complained against are immediately called for an inquiry.

### **5.1.19 How does the university elicit the cooperation of all its stakeholders to ensure the overall development of its students?**

The faculty and the administration have formed several committees which consider the overall development of students.

- (1) A GenED Cell has been formed in 2015 which considers the design and implementation of a number of interdisciplinary courses for undergraduate students for a well rounded education.
- (2) The university is concerned with the sensitisation of students to issues of gender, social location etc. beyond their academic pursuits. Various committees like the PUCASH and the Equal Opportunities Cell comprising members of the faculty and students work to sensitise the students.
- (3) The university has frequent all faculty meetings, as well as meetings of the various committees of faculty, non teaching staff and students in order to discuss important issues.
- (4) All departments have formed a student faculty council which meet every month and discuss issues about the department's interest.

### **5.1.20 How does the university ensure the participation of women students in intra- and inter-institutional sports competitions and cultural activities? Provide details of sports and cultural activities where such efforts were made.**

As has been continuously stated throughout the document, Presidency University provides equal opportunities to both the genders, to participate in sports and cultural activities. Female faculties and Women students holding different positions in Students' Council, have been especially instructed to encourage the female students in various sports and cultural activities.

- 1 The University organized self defense training camps its women students in 2013 and is going to organize the same in 2016.
2. In 2015, Rajashree Kundu, Dept of Chemistry participated in the TATA STEEL KOLKATA MARATHON in 25km category.
3. A special bus facility is organized to ensure participation of ladies hostel student boarders in late evening cultural events at the University.
4. Department of Biological Sciences organizes educational trips to various wild life and nature reserves as a part of their curriculum. Female students are especially encouraged to participate and organize these activities.
5. Girls' hostel has a well equipped gymnasium, a table tennis court, and library. There is a swimming pool right next to the hostel. Our students are constantly encouraged to use these facilities.
6. University has its own singing choir consisting mostly of female students.

## 5.2 Student Progression

### 5.2.1 What is the student strength of the university for the current academic year? Analyse the Programme-wise data and provide the trends for the last four years.

**Current student strength: 2719**

Student Progression (%)

Programme of Study	Progression	Programme of Study	Progression	Programme of Study	Progression	Programme of Study	Progression
UG to PG*	>98%	PG to M.Phil.*	0.98%	PG to PhD	26.4%	PhD to Post-Doctoral	~5%

### 5.2.2

Employment	Campus selection	12.4%
Other than campus recruitment		Rest of the pass outs

### 5.2.3 What is the programme-wise completion rate during the time span stipulated by the university?

For all UG and PG programmes the completion rate is more than 98%.

### 5.2.4 What is the number and percentage of students who appeared/ qualified in examinations like UGC-CSIR-NET, UGC-NET, SLET, ATE / CAT / GRE / TOFEL / GMAT / Central / State services, Defense, Civil Services, etc.?

	SET	NET	GATE	GRE	KVPY	JBNSTS	INSPIRE	Post Doctoral	Other
Total 2012 to 2015	11	116	31	27	2	2	22	14	154
(%)	2.9	30.6	8.2	7.1	0.5	0.5	5.8	3.7	40.6

### 5.2.5 Provide category-wise details regarding the number of PhD/ D.Litt./D.Sc. theses submitted/ accepted/ resubmitted/ rejected in the last four years.

The University initiated PhD programme in the year 2013-2014. As such no PhD degree has been awarded till now. However, faculty members are supervising PhD programmes under Calcutta University and WBUT before the introduction PhD programme of the Presidency University.

Number of PhD awarded and submitted in Last four years

- Geology: 4 (under Calcutta University)
- Chemistry: 17 (under Calcutta University)
- Physics: 1 (under Calcutta University)
- DBS: 1 (under Calcutta University)
- Economics: 07 (Under CU and WBUT)

## 5.3 Student Participation and Activities

## Presidency University

### 5.3.1 List the range of sports, cultural and extracurricular activities available to students. Furnish the programme calendar and provide details of students' participation.

The two-day annual athletic meet is organized every year. The Presidency University Cricket League, Presidency University Football League, Presidency University Badminton League are the major events that are organized every year. A cricket match between past and present students are organized every year jointly by the Presidency University and its Alumni Association. The university encourages its students to attend many different sports events organized by other institutions and universities. For example, in 2015 students attended the athletic meet, Spardha, organized by the BHU and the TATA Steel Marathon. The university encourages cultural and extracurricular activities by its students. It has Presidency University Choir, Debate Society, Quiz society, Literary Society, Society for Paranormal Enthusiasts, Drama Society, Cinematic Society, photography club and young entrepreneurs' society. Each of these societies hold programmes regularly.

### 5.3.2 Give details of the achievements of students in co-curricular, extracurricular and cultural activities at different levels: University / State / Zonal / National / International, etc. during the last four years.

#### Societies and cultural activities:

**Presidency University Choir:** Music at Presidency University is provided by University Choir, a group of voices selected from graduate and postgraduate students, scholars, staff as well as faculty across disciplines. The choir provides an excellent opportunity to the gifted students to expand their musical horizons from classic to contemporary. They are encouraged to participate in proposing musical themes before any major choir event. Presidency choir stages several programmes annually with the major ones being Founder's Day celebration, convocation and orientation ceremonies. Some of the major thematic programmes have been on "Surya Sangame" based on Kalkut's "Shambo", "Aarshinagorer Ochin Kotha (A search for the eternal)" based on baul philosophy, "Krishnasang Riturang" - a musical fusion with classical and semi-classical genres etc. Presidency choir has been distributing certificates to successful participants to encourage even more extra-curricular activities, since 2005 (since erstwhile Presidency College). The cooperation from university authorities, guidance from teaching and non-teaching staff and enthusiastic participation of students/scholars help this largest music ensemble on campus grow with every passing year.

**The Literary Society** is a group of young literature aficionados of Presidency University. It was started in 2010, after the college became a university, to revive the activities of the erstwhile Literary Society of Presidency College. The main objective of the group is to keep itself updated on past and current developments in the literary sphere as well as regularly hold discussions, sessions and competitions among students. The group aims to form a vibrant and interactive forum, with the active engagement of students interested in literature, irrespective of stream or department. Regular literary sessions are conducted on a variety of topics e.g. Mythology, Gender and Sexuality, Popular TV shows, Literature and Death. The society arranged the Freshers Micro Fiction Contest on August 2, 2013 and the Freshers Poetry Slam Contest in 14 August, 2014 and in September, 2015 and Incarnadine, Presidency University's first ever inter-college Literary Fest. Old William's Birthday Party, the inter-college literary quiz, was conducted on 23rd April 2015. MythLit Quiz was conducted on 15th October, 2015.

**Presidency University Society for Paranormal Enthusiasts** is Presidency University's first society based on the study of the paranormal and the parapsychological aspects of the world. Founded on 31st October, 2013, the society has hosted many events since then and looks forward to hosting many more. PUSPE hosted a number of events since its inception. It organized session on 'Urban Legends' (December 13th, 2013), Screening of the film 'Shutter' (January 3rd, 2014), session on 'Why horror?' (February 28th, 2014), Session on 'Paranormal Experiences' (April 25th, 2014), Screening of the film 'The Devil Inside' (August 14th, 2014), Mega Event Halloween 2014, a double Session on Haunted Places and Paranormal Experiences (February 13th, 2015) and an introductory session for new members on August 13th, 2015.

**Social and cultural activities by the Presidency University Students' Union** The Presidency University Students' Union Elections had been on hold for four years from 2010 through 2014. In the absence of the students, union, social and cultural activities were carried out in the campus by socio-cultural platform of the students. In 2012, two sports tournaments, the Presidency University Football League and the Presidency University Cricket League were constituted for the first time and are carried out every year since then. In addition to this, a freshers' welcome programme was organized and a number of cultural events were a part of this, including creative writing, on stage talent shows, and a sports week hosting Badminton, Carrom, Chess, Cricket, Football tournaments. A successful Drama Event was also conducted hosting the dramas "Raktakarabi" by Rabindranath Tagore and "Tarpur"-an adaptation of Nirendranath Chakraborty's poem by a student of the college. In 2013, the Fresher's Welcome programme was organized with the sports week and cultural activities. PUFL and PUCL were held as usual. A newsletter called 'Presi Days' was published by the students themselves out of independent fund raising.

**The Presidency College Cinematic Society** which has been a stand out since its conception during the 1960s, promoting films as an alternative medium of expression when the industry was struggling to strike a balance between art and entertainment. PCCS, which is primarily a body of cinema enthusiasts, considers this medium in all its facades and has organised various seminars and discussion sessions on socio political issues from time to time, apart from propagating parallel cinema. PCCS not only screens classics from across the world, but also serves as a platform for independent filmmakers in and around Kolkata, and has evidently hosted the first Independent Film Festival in Kolkata. This festival was held in 2013. A successful drama event was held in September where Rabindranath Tagore's "Taasher Desh" was staged. The elected Union in 2014 held a number of social and cultural programmes. An event against racism was organized following the NidoTaniam incident. The International Mother Language Day was observed on 21st February where delegates from 7 North Eastern states were invited to perform their native arts. The Women's Day was also celebrated. The Union hosted a successful drama festival, Dramatize, inviting professional theatre groups and staging their own play. It also hosted a cultural programme in remembrance of Tagore. The annual fest of Presidency, 'Milieu' was held in January where colleges from across the state took part. Seminars were held by PCCS. **The Presidency College Magazine** came out for the first time in four years. In 2015, the Union has observed the International Mother Language Day, held PUCL and PUFL, Fresher's Week and the annual drama festival Dramatize. The fresher's week was held in September. PCCS collaborated with Kashish Forward to host a short film festival attacking the heteronormative norms of the society. The Union also raised funds to donate to victims of the Nepal Earthquake and also to South Bengal flood victims. It also donated a sum to Ms.Ruchira Gupta to help her on her work against child sex trafficking

**Drama Society:** In the absence of elected students' union, Annweshan, a socio-cultural platform of the students of the university organized a drama festival in September, 2012 staging Rabindranath Tagore's "Raktakarabi" and an adaptation of NirendranathChakraborty's "Tarpur". In 2013, Annweshan staged "TaasherDesh" as part of the festival and also invited a few professional theatre troupes from outside. In 2014 the **Presidency University Drama Society** staged Manoj Mitra's "Devi Sarpamasta" in September which was followed by "MarichSambad" by the troupe 'Chetona'. In 2015, two plays, an adaptation of Sukumar Ray's "Ha-ja-ba-ra-la" and an adaptation of Tagore's "TotaKahini" were staged as part of "Dramatize 2015". An interactive workshop was held in December.

**Debate Society:** The society organized a number of debating programmes over the last four years. The presidency University team has done well in many of the events. A glimpse of those is as follows:

**Winner:** Shibpur Debate 2012, Sanskriti Debate, 2014 - Jadavpur University, Epignosis Debate, 2014 - Heritage Institute of Technology, Convolution 2014 - Jadavpur University, Literaria Debate, 2014 - St. Xavier's College, Young Economists Students Meet Debate - Polemic 2015, Contrapunto 2013, 2015, Colloquium Parliamentary Debate Tournament, 2015 - Heritage Institute of Technology, Daring Debates

## Presidency University

2015, organised by London School of Economics, NUJS Model United Nations, 2014, NUJS Model United Nations, 2013, Indian International Model United Nations 2013, Indian International Model United Nations 2015, Jadavpur University International Relations Scholastic Conclave Debate 2014, Jadavpur University International Relations Scholastic Conclave Model SAARC Summit 2014.

**Judging Panel:** Concord Debate, 2015 – Calcutta Boy’s School.

**Runners up:** Confluence 2014, St. Xaviers Kolkata, Damayanti Shield Debate, Loreto College, Kolkata 2014, IIT Kharagpur Model United Nations 2014, IISWBM debate 2012, Jaco-MUN 2014.

**Finalists:** ALSOC International Inter-varsity Challenge Debate 2013, Shri Ram College of Commerce Conventional Debate, 2014. Conducted National Debate - Derozio Memorial Debate 2015. Conducted Local Debate – Prologue 2015. Organised a panel discussion in association with the Calcutta Debating Circle 2015.

**Model United Nations:** Chairperson, Executive Board: Indian International Model United Nations 2014, Chairperson, Executive Board: Chicago Model United Nations India 2014, Chairperson, Executive Board: Bharatiya Vidya Bhavan MUN 2014, Chairperson, Executive Board: DPS MUN 2014, Runners Up: JacoMUN 2013 (at St. James School), Chairperson, Executive Board: St. Thomas’ Boys Peace Mission 2014, MUN Workshops conducted at Scottish Church college, Delhi Public School Newtown, La Martiniere for Boys and Mahadevi Birla, Runners Up: JUMUN 2015.

**The QUIZ Society** organized a number of events over the years. In 2014 the Society organized Inter-College Freshers’ Quiz -2014 (25th August), INTACH Indian Heritage Quiz (Kolkata Leg) (30th August), the Sweden India Nobel Memorial Quiz (Kolkata Leg) (5th September), the Presidency Quiz Fest (31st October), and the Bengali Heritage Quiz (3rd January). In 2015, it has arranged to organize the Music, Entertainment, Science and BizTech Quiz (3rd January), the Quizzical (Milieu Quiz) (15th January), the QvicQvid 2015 (The Marquee event of the Quiz Group) (3rd April), the Antaragni IIT Kanpur Fest Kolkata Prelims, the Inter College Fresher’s Quiz 2015 (3rd September), the MythLit Quiz 2015, Incarnadine, the Lit Fest Quiz 2014 and the Bits, Pilani Enigma 2015 Kolkata Prelims.

### 5.3.3 Does the university conduct special drives / campaigns for students to promote heritage consciousness?

The university is highly heritage conscious. Our two major buildings and EHH are heritage buildings. We have special plans for renovation and modifications of internal space of these as per the recommendations of the heritage commission and special heritage architects. Students are sensitized about the heritage and rich background of the institution through orientation programmes by the VC and in the departments and through the annual report and various alumni programmes. Different endowment funds are available in the names of our noted alumni. The statues of few noted alumni in the campus and the plaques in honour of Prof. AJC Bose and Prof. APC Ray promote heritage consciousness among the students. The university has created distinguished chair professor and heritage chair professor posts in the names of our distinguished alumni. Our alumni, spread and established all over the world often visit their alma mater, meet the current students and exchange ideas through public lectures, memorial lectures and series of talks and seminars organized regularly by the respective departments.

### 5.3.4 How does the university involve and encourage its students to publish materials like catalogues, wall magazines, college magazine, and other material? List the major publications/ materials brought out by the students during the last four academic sessions.

The culture of expression, verbal or written is an inherited legacy of Presidency University. Witness to innumerable political movements, social reform initiative, cultural renaissance the institution prides itself as the sphere of free expression. Publication by students in the form of little magazines, pamphlets, college magazine and wall magazines has been an intrinsic part of Presidency experience. The university has sought



to encourage the culture of expression by supporting Student Union Annual Magazine which provides students an outlet. At the departmental level, wall magazines and student journals have been initiated. The Department of Bengali has a wall magazine, the Department of History has a peer reviewed student journal.

**5.3.5 Does the university have a Student Council or any other similar body? Give details on its constitution, activities and funding.**

The university statute provides for a Student Council. There is a single students' council for all the faculties of the university i.e. faculties of science and arts. The Council is an elected body with direct election for the position of President, General Secretary, Assistant General Secretary, Vice President, and Secretary to the Girls' Common Room. In addition students from the different department elect their respective representative who act as Class Representative.

The Student Council, although distinct is in a way continuation of the Students' Union of Presidency College that was established in 1909. It carries forward some of the cherished aim of the erstwhile student union such as promotion of democracy and corporate life; enhancing social and cultural relations between teachers and students; fostering spirit of cooperation among all students and other sections of the academic community. It organizes sports events such as the Presidency University Football League and the Presidency University Cricket League. Among the various platforms existent in Presidency, one of the oldest is PCCS, the Presidency College Cinematic Society which has been a stand out since its conception during the 1960s. The Drama Society, The Debate Society, The quiz society, The society for paranormal enthusiasts, the photography club are all very active and organize various events each year. For each of these societies, there is a teacher-in charge who help students by providing thoughtful suggestions. The elected union held a number of social and cultural programmes from the time of its inception. It organizes various events such as seminars addressing the issues such as racism and sexual harassment, observation of International Mother Language Day, celebration of Women's Day and many others.

The annual fest of Presidency University, 'Milieu' is organized each year where colleges from across the state took part. A newsletter called 'Presi Days' used to be published by the students themselves out of independent fund raising. The Presidency College Magazine comes out each year. The Union also raises funds for charity. The university has its fund earmarked for the Students' union council.

**5.3.6 Give details of various academic and administrative bodies that have student representatives on them. Also provide details of their activities.**

The university has an anti-ragging committee which holds meeting regularly, takes complaints and is resolving issues. The committee has as its members the teachers of the university, an external member and a student representative. The Dean of Students acts as the member secretary of the committee. The complaints, if any are made directly at the office of the Dean of Students.

The university has a committee against sexual harassment (PUCASH) which holds meeting regularly, takes complaints and is resolving issues. The committee has as its members the teachers of the university, an external member and a student representative.

## CRITERION VI

### Governance, Leadership and Management

#### 6.1 Institutional Vision and Leadership

##### 6.1.1 State the vision and the mission of the university.

**Vision:** Presidency University, erstwhile Hindoo/Presidency College, is an institution that has always stood for a set of well-defined instructional and social values through its existence spanning almost two centuries. In recognition of its rich heritage of academic excellence, the Legislature of West Bengal conferred the status of a University on Presidency College on 7th of July, 2010. This was enacted with a view to enable Presidency University to function more efficiently as a centre of teaching and research in various branches of learning, especially in the Humanities, Basic and Social Sciences, and to promote the advancement and dissemination of knowledge and learning in the service of the society and the nation. Subsequently, UGC has recognized Presidency University U/S 12B of the UGC Act, and has accorded Presidency University the status of an Educational Institute of National Eminence.

Presidency looks forward to being a university with a perfect balance between teaching and research, strong in its basic focus areas of the natural sciences, the life sciences, the humanities and the social sciences, yet innovative in exploring new emerging areas such as the Digital Humanities, Computational Biology, Performance Studies, Astrophysics, Big Data Analysis and Materials Science. Presidency University intends to combine blue skies research, which has always been its strength, with social and environmental awareness and impact research. The unique combination of continuity and new beginnings that is shaping Presidency University gives it an unusual vitality and resilience which can create a true centre of excellence and help it to become one of the top 25 universities in the world with global faculty, international students and world class facilities.

**Mission:** Presidency University has a fourfold mission. Firstly, the university aims to construct new academic domains by bridging the humanities, the social sciences, computational sciences, and the natural sciences into viable programmes and projects through interdisciplinary methodologies and researcher interaction. This aims at facilitating the formation of new kinds of knowledge and in forging links between local, national, and international levels of scholarly collaboration. Secondly, the university seeks to offer a comprehensive pedagogic reform by introducing higher education students to basic as well as new interdisciplinary choice-based curricula and research domains. Thirdly, Presidency will connect with academic institutions outside India (global outreach) through credit-transfer facility, e-connectivity, collaborative interdisciplinary projects, student exchange, and flexible pedagogic schemes inviting scholars from outside India to teach on their areas of expertise. Fourthly, Presidency will offer its new research and pedagogic schemes to academic communities (universities, colleges, and schools, for example) as well as to the wider public, particularly in remote areas. The university aspires to address practical concerns of marginalized communities and classes in the target areas by addressing their socio-economic and cultural needs through focused interdisciplinary research, with an integrated and comprehensive policy vision on a hitherto unprecedented scale.

Presidency aims to connect global, national, and local level intellectual domains, in order to produce cutting-edge research in significant fields that are yet to be addressed comprehensively. This will be done through bridging the gaps between the humanities, the social sciences and natural sciences, and those between local networks of knowledge and globalized academic scholarship.

**6.1.2 Does the mission statement define the institution’s distinctive characteristics in terms of addressing the needs of the society, the students it seeks to serve, the institution’s tradition and value orientations, its vision for the future, etc.?**

Presidency Mission Statement envisages the establishment of an innovative university of the 21st century. The Mission Statement has remained the guiding principle since the inception of the university in the following aspects:

1. Introducing academic flexibility through Choice Based Credit System in UG and PG curricula.
2. Encouraging self-learning through seminar/term paper/internal assessment at every level of the degree course.
3. Providing state-of-the-art curricula exploiting interdisciplinary aspects of related domains, such as the new UG degree course in Biological Sciences integrating all branches of biology, biochemistry, physics, statistics and chemistry.
4. Imparting skill, social responsibility and employability through relevant curricular restructuring in every subject.
5. Providing support through the office of the Dean of Students’ Affairs and NSS programmes to multifarious extracurricular, extension and outreach activities of the students when they play a comprehensive societal role in tune with the core values of the University.
6. Offering Distinguished and Chair Professorships in both faculties for exploring and integrating domain knowledge across disciplines to promote research in emerging interdisciplinary fields.
7. Providing round-the-clock high-speed wireless connectivity to all the stakeholders.
8. Providing bibliographic support through the university library.
9. Facilitating research and exchange activities of the faculty through annual grant under the Faculty Research and Professional Development (FRPDF) scheme.
10. Ensuring efficient administrative support through University administrative, IT and finance offices.
11. Having nodal support for all academic and infrastructural policy support to the university through the University Governing Board and Presidency Mentor Group.

**6.1.3 How is the leadership involved in ensuring the organization’s management system development, implementation and continuous improvement?**

The University management system is student-centric in principle. The management strives to ensure and protect the core values of the university and, by extension, the general guidelines of the State Higher Education Policy and the UGC.

The Presidency university Act, 2010, provides the basic management structure with the Vice-Chancellor as the head of the University. The Vice-Chancellor, in consultation with all the stakeholders and the University Governing Board, provides the leadership in formulating and implementing different policies on academic, financial, infrastructural and outreach issues. Academic issues emerging from the Boards of Studies of respective departments are periodically considered at the respective Faculty Councils and are then implemented by the Vice-Chancellor with the approval of the Governing Board. Issues related to infrastructure which emerge periodically from different departments, and as per the long-term and short-term vision of the university. These are also discussed in the ‘Planning and Development Committee’ and are implemented as per plan. The Finance Committee provides the guidelines for formulating the budget and

## Presidency University

the policies for expenditure to support the emerging needs of academic development and future expansion. The Presidency University Act also provides for an advisory body, the Presidency Mentor Group, with 7 to 9 eminent educationists as members. The PMG plays a pivotal role in formulating the long-term vision and short-term plans for the university. The PMG offers recommendation to the Governing Board for consideration.

### ► in interacting with its stakeholders?

The university leadership remains continuously in touch with different stakeholders through structured policies provided by the Act and Statutes:

- Students, the most important stakeholders of the University, interact with the leadership at two levels:
  1. At the departmental level, through the departmental 'Teacher-Student Committee' for specific issues related to teaching, curriculum and extension activities of the department, and
  2. Through the Students' Union with the university management for issues of general development of the university, co-curricular, extension and outreach programmes.
- Faculty members interact with the management through Faculty Councils and different committees of the university implementing different policies and plans.
- Non-teaching staff interacts with the management through periodic meetings.
- The Alumni Association remains in constant contact with the university management and all stakeholders through year-long programmes and various special events organized by the Alumni Association.

### ► in reinforcing a culture of excellence?

The university management constantly endeavours to inculcate the culture of excellence through various policies and programmes, for example, through:

- the introduction of the Public Lecture series
- academic exchange and credit transfer programmes with foreign universities through MoUs
- the participation of faculty in academic exchange through FRPDF grant support
- the appointment of Chair Professorships
- the support provided to socially and economically disadvantaged students through various financial aid schemes and endowments of the university
- awards and medals given to outstanding performers
- the creation of provisions to support infrastructure expansion and maintenance
- the promotion of environmental consciousness by maintaining greenery in the campus

### ► in identifying organizational needs and striving to fulfill them?

The university leadership takes into consideration organizational needs by obtaining inputs from all stakeholders. The organizational needs emerge from:

- recommendations of departmental committees and Boards of Studies of different departments
- recommendations from the Deans of the Faculties

- recommendations from the Faculty Councils
- recommendations from the Students' Union
- recommendations from the Governing Board
- recommendations from non-teaching staff
- recommendations from society, UGC, and Govt at large.

**6.1.4 Were any of the top leadership positions of the university vacant for more than a year? If so, state the reasons.**

None of the top positions is vacant.

**6.1.5 Does the university ensure that all positions in its various statutory bodies are filled and meetings conducted regularly?**

Statutory bodies such as Board of Studies, Doctoral Committee, PhD Committee, Faculty Councils, and Finance Committee have now been constituted and are functional with the inception of the Statutes. Meetings are arranged regularly and minutes carefully documented.

**6.1.6 Does the university promote a culture of participative management? If yes, indicate the levels of participative management.**

Participative management is enshrined in the Presidency University Act and Statutes. The Governing Board of the university includes adequate representation from the faculty members and students. The Doctoral Committee and Faculty Councils also comprise an adequate representation of the faculty members, especially the Professors of the university. Besides this, various internal committees of the university are constituted by the faculty members.

The participative management is never top-down in Presidency. The issues that primarily emerge at the Departmental Committees/Boards of Studies/Students' Union are taken up by the university leadership for implementation following the statutory provisions.

**6.1.7 Give details of the academic and administrative leadership provided by the university to its affiliated colleges and the support and encouragement given to them to become autonomous.**

Not Applicable

**6.1.8 Have any provisions been incorporated / introduced in the University Act and Statutes to provide for conferment of degrees by autonomous colleges?**

Not Applicable

**6.1.9 How does the university groom leadership at various levels? Give details.**

The university stakeholders, particularly the students and the faculty members participate in policy making through different statutory bodies. The leadership begins at the Board of Studies and Teacher-Student Committee in each department. The HoDs and the student representatives provide the leadership to highlight the requirements and vision (both long and short term) of the department. The Deans of the Faculty Councils provide leadership in formulating comprehensive policies for academic and infrastructure plans periodically. Similarly, the democratically elected student body, the Students' Union, formulates plans and programmes for co-curricular, extensional, outreach and general requirements of the students. Entrepreneurial leadership is promoted by the e-platform on which students may upload business ideas for support from banks and angel investors. This platform is managed with the assistance with the KPMG group. Social and life skills are fostered by the projects of the National Social Service.

## Presidency University

### 6.1.10 Has the university evolved a knowledge management strategy? If yes, give details.

Presidency, with a long-standing record of academic excellence and a vision to become a 21st century innovative university, is well aware of its role in dissemination of value education and knowledge base for societal and global service. The best practices in teaching and research are shared with the peer groups and society at large through regular seminars / symposium and through publications. The research outputs are disseminated through peer-reviewed publications. Text books written by the faculty members on the other hand directly serve the needs of the student community at local, regional and global levels. The university library has collections of rare books in a digital archive which is accessible by users who are registered with the library. The electronic institutional repository is part of the knowledge management as are user-training programmes for users of print and digital resources.

### 6.1.11 How are the following values reflected the functioning of the university?

- **Contributing to national development:**

The Presidency College of Bengal started as the Hindoo College in 1817. The origin of this institution lay in the desire of the Indians to create an institution of higher learning to spread modern education and inculcate all the values that are deemed indispensable for Indian youth. If Western education was accepted as the model, this did not lead to a neglect of the indigenous traditions of learning. At the same time, the larger social context was never lost sight of. This is borne out by the participation and involvement of the students of this college in the cause of social reform and national regeneration. They played a significant role in the Indian National Movement. The fact that the colonial government ran the college was never allowed to cramp the spirit of freedom and enquiry among students. The pioneers in the Indian National Movement, e.g. Bankim Chandra Chatterjee, W.C. Bonerjee, Deshabandhu C.R. Das, Netaji Subhas Chandra Bose, Dr. Rajendra Prasad were all alumni of this great institution. The broad and democratic nationalist values of Presidency always remained in the foreground of policy formulation of the university.

The university curricula, stressing more and more on the importance of self-learning and personality development, provide the background of self-empowerment to the future citizens of India. The faculty members undertake research programmes in various thrust areas of national interest, as earmarked by national agencies such as DST, CSIR, UGC, DBT and DAE. The collective DBT-Builder programme for the Department of Biological Sciences facilitates our students and researchers in contributing in the emerging areas of biotechnology, biochemistry and genetic sciences. The Department of Geology participates in natural resource exploration programmes of the Department of Atomic Energy, Iron and Steel Industry. The Department of Chemistry is engaged in research on the frontiers nanomaterials. The Department of Physics is a stakeholder in Indian mission for Astrophysics and deep space programmes with the IUCA, Pune. The Economics, Statistics and Mathematics departments have joined hands to introduce the science of Big Data Analysis at the university level, a future for the knowledge based global entrepreneur programme of India. The department of Hindi has already set up a national centre for inter-regional linguistic and cultural research, particularly with a focus on integrating north-eastern and eastern Indian languages and culture. The departments of History and English also participate in this programme.

The Department of English, in association with Scottish Kolkata Heritage Trust participate in developing public websites on the heritage material of colonial Bengal such as the Scottish cemeteries. Its digital humanities programmes are in the process of preparing e-resources for popularizing literature and history. The Department of History has planned an oral history project. Presidency stakeholders, as always, are actively associated with national integration and the mission of self-reliance through training of future citizens and by providing the backbone for technology innovation through fundamental research.

- **Fostering global competencies among students**

The university policy is aimed at promoting its students and faculty at a globally competitive platform through:

- The Choice-Based Credit System with credit transfer facility
- Introduction of General Education (GenEd) modules across the faculty
- More preference given to self-learning through seminar presentations, term papers and assignments
- Student Summer Research Programmes
- MoUs with leading universities in Europe and Japan
- Student exchange programmes at UG-PG-PhD levels through MoUs
- Inter-governmental Bilateral major research projects (DST, UKERI, JSPS, Indo-Brazil, Indio-Japan, TCD, Fulbright etc.).

- **Inculcating a sound value system among students**

The university reminds the students about the ethics and value system of a modern Indian society through different programmes:

- General awareness of social responsibilities through NSS programmes
- Outlining the rich heritage and contribution of the institution in the Indian renaissance and the Indian national movement through the inaugural address of the Vice-Chancellor and the University Convocation Oath
- Through the Public Lectures by dignitaries such as HH Dalai Lama
- Programmes organized through PUCASH
- Anti-ragging declaration at the time of admission

- **Promoting use of technology**

- Use of round-the clock wireless networking system
- Setting up of state-of-the-art laboratories through DST, DBT, CSIR, UGC funding
- E-library facility (partly developed)
- Wired classroom with facility of projection
- Teleconferencing facility and facility for webcasting
- Industrial training programme
- Summer Research Projects at National Laboratories through INSA, KVPY DST-INSPIRE programmes
- Student exchange programme to foreign laboratories through MoUs.

- **Quest for excellence**

Presidency as an institution of higher learning is the first ever experiment of modern western education in India. It has remained at the frontier of scientific, social, and literary research for nearly two

## Presidency University

centuries now. It has been receiving national recognitions for pioneering achievements, from national nodal agencies such as UGC and DST, for over six decades. Two of its departments have already been recognized as Centre for Advanced Studies (UGC-CAS awarded to Economics in mid 1970 and to Geology in 2006). All the science departments received more than one cycle of FIST assistance from the DST. Presidency College received the UGC CPE status in 2003 and NAAC A+ accreditation in 2006.

Considering the unparalleled record of achievements in fundamental higher education, the institution has been upgraded to a university in 2010. The upgradation further facilitated the introduction of modern curricular structure on par with global standards, major infrastructure upgradation, autonomy, and strengthening of the faculty pool. The University has already received the status of Institution of National Eminence in 2012. The university is committed to retain its excellence in teaching and research. The leadership is providing support for the all round development of all its stakeholders.

## 6.2 Strategy Development and Deployment

### 6.2.1 Does the university have a perspective plan for development? If yes, what aspects are considered in the development of policies and strategies?

#### ► Vision and mission:

- The university, in principle, adheres to its vision and mission (as stated in 6.1.1) for formulating its short-term and long-term plans.

#### ► Teaching and learning:

- The university has introduced the new curriculum after two cycles for revisions since 2010. The effectiveness of the curriculum will be adjudged after completion of at least five years. So any major change will only be taken up in 2018. In the meantime, the departments may introduce minor modifications as per the recommendations of the respective BOS.
- Teaching methods are subject to continuous upgradation, with more and more technology support.

#### ► Research and development:

- Research programmes will be accorded increasing importance with the maturing young faculty. Several laboratories have been upgraded with DST, DBT, UGC funding. The research in thrust areas will receive a major boost with the full scale commissioning of the laboratory facility. The university also initiated the PhD programme. Currently, there are 109 PhD researchers enrolled with the university who enjoy either a University Research Fellowship, or UGC-CSIR fellowship and project-linked fellowships. With 94 research projects ongoing at present, the university has initiated a major drive in research and development.
- The acquisition of a 10 acre second campus at New Town, Rajarhat, and of a third campus in the hill town of Kurseong are part of the drive to expand the scope of research in new areas. A new department of Performance Studies / Performing Arts is likely to start functioning in the 2017-18 academic year.

#### ► Community engagement

Community engagement is achieved through research and extension activities.

- Social Science departments and the Economics department in particular is engaged with various socially relevant contemporary issues (for details please see the Departmental Input of Economics).



- The Departments of Geology and Chemistry collaborate in environmental research in the fields of Arsenic and fluoride contaminations in groundwater.
- Language departments, Hindi in particular, explore cross cultural diversity and linguistic patterns among northeastern communities.

► **Human resource planning and development**

The university has a strategy for human resource planning and development. Depending upon the requirement of the departments and as recommended by the BOS, the faculty members are recruited through global advertisement. Requests have been made to the State Govt for additional faculty positions to introduce new programmes and also for the new Himalayan Centre for Presidency at Kurseong Educational Hub.

The unique faculty development scheme, the FRPDF, is in place for continuous professional upgradation of the faculty.

► **Industry interaction:**

The university encourages relationship with industries through joint seminars, consultancy projects and campus recruitment drives.

► **Internationalisation:**

Presidency University has attracted global attention for its long-standing excellence and for its brilliant pool of alumni spread all over the world. International relations is promoted through:

- Joint research programmes
- Overseas postdoctoral programmes
- Student and faculty exchange through MoUs
- Joint PhD programmes
- International seminar participation and organization
- Webcasting of select public lectures

**6.2.2 Describe the university's internal organizational structure and decision making processes and their effectiveness.**

The university is governed by the **Governing Board** chaired by the **Chancellor** of the University. The **Presidency Mentor Group** was constituted by the Presidency University Amendment Act 2013. The **PMG** plays an important advisory role in the development of the university.

- **The Vice-Chancellor** is the Head of the university for all purposes. Administrative and academic responsibilities are shared between university officers and faculty members.
- **University Officers:** Administration
- **Registrar** acts as the executive head of the university
- **Finance Officer** is in charge of all matters related to finance
- **Controller of Examinations** is entrusted with the matters related to examination and evaluation
- **University Librarian**

## Presidency University

- **Dean of Students** is in charge of matters related to student support and progression.
- Senior Systems Analyst is in charge of the IT-infrastructure.
- University Engineer takes care of infrastructure development and maintenance.
- Academic Responsibilities: Faculty Members.
- **Faculty Councils**
- **Dean** of respective Faculty  
Academic Departments
  - **Head** of the Department
  - **Board of Studies**
  - **Faculty members**

The overall structure, as defined in the Act and elaborated in the Statutes, ensures democratic participation in policy-making from the grass-root level. The plans and programmes primarily emerge from departments and are finally implemented by the University as per statutory and financial provisions.

### 6.2.3 Does the university have a formal policy to ensure quality? How is it designed, driven, deployed and reviewed?

The university implements quality assurance through several mechanisms:

- through the IQAC
- through student feedback
- through periodic review by different funding agencies such as UGC, DST, DBT
- through Annual Report
- through research output as indicated by publications
- through statutory financial audits

### 6.2.4 Does the university encourage its academic departments to function independently and autonomously and how does it ensure accountability?

The university structure ensures autonomy in the functioning of the academic departments.

- The departments are entrusted with curricular designing through respective Board of Studies which includes external experts. The PhD committee in respective subjects ensures the quality of the PhD programme.
- The Research Advisory Committee provides encouragement for formulating research proposals by the faculty members. The RAC also explores the avenues of interdisciplinary research.
- Accountability in teaching and learning is ensured through student feedback.
- Research output is reflected in publications.
- Outstanding performance is recognized through national and international recognition.

**6.2.5 During the last four years, have there been any instances of court cases filed by and against the institute? What were the critical issues and verdicts of the courts on these issues?**

- There were 13 cases filed so far against the university. The issues are related to faculty recruitment and admission to degree courses. The judgement went in favour of the university in 50% of the cases and for the rest verdicts are yet to come.

**6.2.6 How does the university ensure that grievances / complaints are promptly attended to and resolved effectively? Is there a mechanism to analyse the nature of grievances for promoting better stakeholder-relationship?**

The university has several committees to ensure grievance redressal:

- Grievances from students are received by the Dean of Students of complaints of a general nature involving academic, infrastructure, logistics and financial issues
- PUCASH: deals with cases of gender discrimination and issues related to sexual harassment
- Anti-ragging Committee: takes cognizance of complaints of ragging in campus or in hostels
- Disciplinary Committee: takes into account incidences of indiscipline in campus or in hostels

**6.2.7 Does the university have a mechanism for analyzing student feedback on institutional performance? If yes, what was the institutional response?**

The university has initiated the process of obtaining student feedback at the end of each academic year. Course-specific responses have been collected and analyzed by the university authority. The results of the analyses were discussed with the departmental Heads.

**6.2.8 Does the university conduct performance audit of the various departments?**

University reviews the performance of the departments through the annual report. Moreover, departments are periodically reviewed by external funding agencies for every proposal of grant.

**6.2.9 What mechanisms have been evolved by the university to identify the developmental needs of its affiliated institutions?**

Not applicable

**6.2.10 Does the university have a vibrant College Development Council (CDC) / Board of College and University Development (BCUD)? If yes, detail its structure, functions and achievements.**

Not applicable

**6.3 Faculty Empowerment Strategies**

**6.3.1 What efforts have been made to enhance the professional development of teaching and non-teaching staff?**

Professional development of teaching staff is promoted by facilitating the teaching staff to attend and organize seminars / symposium/workshops. The university provides appropriate leave and financial assistance through the FRPDF scheme to individual faculty members for attending seminars / workshops in India and abroad and for acquiring required books and equipment.

Non-teaching staff are provided basic computer operation training from time to time. Laboratory technical staff are trained for sample preparation, basic operations and security systems of advanced instruments.

## Presidency University

### 6.3.2 What is the outcome of the review of various appraisal methods used by the university? List the important decisions.

The university undertakes regular appraisals for curricular aspects, teaching-learning evaluation and research-extension policies. The outcome of such appraisals leads to periodic upgradation and modification of curricula for introducing more flexibility in choice based credit system, the use of technology in teaching, evaluation policy, constant upgradation of IT and networking and library facility, laboratory upgradation and consistent growth in research funding and publications.

### 6.3.3 What are the welfare schemes available for teaching and non-teaching staff? What percentage of staff have benefitted from these schemes in the last four years? Give details.

#### Welfare schemes :

- Group Medical Insurance, with partial contribution from incumbents
- Institution of GPF and other retirement benefits for university employees
- Support for off campus IT network : provided to all teaching staff and university officers

### 6.3.4 What are the measures taken by the University for attracting and retaining eminent faculty

1. The State Govt. has created five positions of Distinguished Chair Professors for both Faculties. One Chair Professor position has been created by endowment from an alumnus and one from the Infosys Foundations. All these positions entail an attractive pay and research and travel grant .
2. For the university faculty members the Faculty Research and Professional Development Fund (FRPDF) is an added incentive at all levels. This grant is meant for expenditure related to research, for acquiring relevant books and equipment, and for participating in seminars / symposia every year.
3. The Presidency University Act also has provisions for rewarding outstanding achievers in research.

### 6.3.5 Has the university conducted a gender audit during the last four years? If yes, mention a few salient findings.

No

### 6.3.6 Does the university conduct any gender sensitization programmes for its faculty?

The university has a committee (PUCASH) to probe reported cases of sexual harassment which holds meetings regularly, takes complaints and resolves issues. The committee has as its members the teachers of the university, an external member and a student representative. The Dean of Students acts as the member secretary of the committee. The complaints are made directly at the office of the Dean of Students. Once a complaint is filed, the committee sits for a meeting immediately to decide the future course of action. Since its initiation, the committee has received three complaints and the issues have been resolved.

The committee is ensuring enough publicity and sensitization by organizing workshops, seminars, poster competition, students' debate competition etc.

- During 2014-15, a public lecture titled "As if women matter: Feminism beyond borders to tackle sex trafficking" was delivered by Ms. Ruchira Gupta, an Indian sex trafficking abolitionist, journalist and activist.
- PUCASH organized a poster competition for the university students in the month of January 2015 as a part of its efforts at gender sensitization. The students were encouraged to draw posters regarding gender equality in general. They were also encouraged to draw posters explaining what constitutes

‘sexual harassment’, and providing information about PUCASH and its contact details in particular. The prize-winning posters were printed and displayed in the campus (offices, departments, canteens, hostels, corridors, etc.), as required by the law and in order to create gender awareness among the university community.

- A students’ debate competition was organized by the cell on 1st October 2015 on the topic “Pitribhoomi local will solidify gender binaries”, a recent controversy on the reservation of Railway compartment for Ladies in suburban trains. Rabindranath Tagore Distinguished Professor Swapan Kumar Chakravorty and Professor Mridu Rai acted as the two Judges of the event.
- The official website of the university and the Handbook for Students has a section for PUCASH where students may get details about the activities of the cell.

### **6.3.7 What is the impact of the University’s Academic Staff College Programmes in enhancing the competencies of the university faculty?**

The university has not yet established any Academic Staff College. Faculty members participate in refresher courses/workshops/orientation programmes organized by other universities.

## **6.4 Financial Management and Resource Mobilization**

### **6.4.1 What is the institutional mechanism available to monitor the effective and efficient use of financial resources?**

- The university has a Finance Committee under the provision of Section 25 of the Presidency University Act, 2010, with the Vice-Chancellor as the Chairperson. As per Section 24(1) of the First Statutes under the Presidency University Act, 2010, the Committee includes the Registrar, Finance Officer, Accounts Officer, Audit Officer, Deans of Faculty Councils, nominated member from the Governing Board, Finance Secretary, WB, two Heads of the departments and two teachers and one member nominated by the Vice-Chancellor. The statutes empower the Finance Committee to look after the budgetary control, consider the annual statement of accounts of the university, review the audit report and take appropriate steps regarding audit observations, and to advise on any financial matter/ issue that may appropriately be referred to it. Any financial rule and guideline of the University is routed through the Finance Committee before the same is approved by the Governing Board for implementation. However, such rules and guidelines are formulated under the overall guidelines and framework of the extant Rules, Notifications and Orders of the State Government.
- The university prepares its budget for both Revenue (Non-Plan) and Capital (Plan / Development) receipts and expenditure in a need-based manner in terms of the provision under the Presidency University Act, 2010, and refers the same to the State Government for its approval and for release of the fund to meet the expenditure within the budgetary limit. Expenditure is incurred keeping in view the sanction and release of the funds, under the respective heads of expenditure, from the State Government and the University Grants Commission (under the General Development Assistance Scheme in different Plan periods). In order to ensure transparency, prudence and integrity in the matter of incurring expenditure, the university follows the Guidelines for Purchase and Works formulated within the framework of the extant financial rules and orders of the State Government and duly approved by the competent authority of the university. A specific delegation of authority is followed regarding sanctioning of the fund for expenditure and for sanctioning of the expenditure.
- In respect of utilisation of the funds for extra-mural research and developments, the university adheres to the norms set by the respective funding authorities within the ambit of the usual financial norms and guidelines of the university and State Government.

## **Presidency University**

- The university also maintains various Endowment Funds with the donations and contributions from a number of private sources. Interest earned on such funds are properly utilised for the purposes for which the respective endowment funds have been instituted, in accordance with the mutual agreements between the university and the donors. An Endowment Fund Committee of the university to monitor the utilisation of such funds and to suggest proper utilisation thereof.
- The university also maintains the ‘Presidency University Vice-Chancellor’s Fund for Excellence’, with the donations and contributions from a number of private sources, for the academic and infrastructural development of the university. There is a strong drive titled ‘Giving for Presidency’ which campaigns for donations, endowments and gifts. All donations are exempt from Income Tax under Section 80 G (2) (iii f) of the Income Tax Act, 1961.
- Utilisation of such funds is made in accordance with the mutual agreements between the university and the respective donors.

### **6.4.2 Does the university have a mechanism for internal and external audit? Give details.**

- At present, there is no post of Audit Officer nor any Internal Audit Wing sanctioned by the State Government. Therefore, the university arranges for the internal audit of its accounts by its empanelled Chartered Accountants Firms. However, it is worth mentioning here that the university has already built up a strong and efficient Finance Department under the leadership of the Finance Officer to ensure proper internal control and internal checking of the financial transactions of the university which are the prerequisites of internal audit system.
- External audit is periodically performed by the Examiner of Local Accounts, Indian Audit & Accounts Department, Office of the Principal Accountant General (General & Social Sector Audit), West Bengal Local Audit department. The university’s replies to such audit reports are placed before the Finance Committee, and thereafter to the Governing Board of the University, for review and approval before sending of the same to the State Government for its perusal.
- Utilization Certificates and Statement of Expenditures under the research fund and general development assistance from different funding agencies are audited by the university-empanelled Chartered Accountants’ firms at the end of each financial year as per requirement of the respective funding agencies.

### **6.4.3 Are the institution’s accounts audited regularly? Have there been any major audit objections, if so, how were they addressed?**

- The Statement of Accounts for the years 2010-11, 2011-12, 2012-13 and 2013-14 have been audited internally by the C.A. firm and submitted thereafter to the Higher Education Department of the State Government along with the audit reports for getting those accounts audited by the appropriate authority of the Government. Internal audit of the Statement of Accounts for 2014-15 will start shortly.
- The transaction audit of the university for the years 2010-11, 2011-12, 2012-13, 2013-14 and 2014-15 have been made by the Examiner of Local Accounts, Indian Audit & Accounts Department, Office of the Principal Accountant General (General & Social Sector Audit), West Bengal Local Audit Department. Audit reports for the years up to 2012-13 have been received and the replies thereto, after approval of the competent authority of the university, have been sent to the Higher Education Department of the State Government. There are no major audit objections till date.

### **6.4.4 Provide the audited income and expenditure statement of academic and administrative activities of the last four years.**

Enclosed as appendix

#### 6.4.5 Narrate the efforts taken by the university for resource mobilization.

- The Govt. of West Bengal has generously contributed to the development of a new campus at New Town and at Dow Hill, Kurseong, the renovation and restoration of the existing buildings at College Street campus, Eden Hindu Hostel and various projects for upgradation of IT network and library infrastructure. In 2013-14, 2014-15 and 2015-16 (till date), the State Govt. has allocated Rs. 680 lakh, Rs.1233 lakh and Rs.431 lakh, respectively, for the aforementioned projects.
- The university has also approached different funding agencies like UGC, DST and DBT for providing funds under different schemes for specific development/ upgradation of laboratories and teaching aids. The amounts sanctioned under (i) DST-FIST in 2014-15 and 2015-16 are Rs.132.45 lakh for the Department of Geology, Rs.185 lakh for the Department of Physics, Rs.223 lakh for the Department of Biological Sciences and Rs.223 lakh for the Department of Chemistry; (ii) under DBT-BUILDER for the Department of Biological Sciences: Rs.494.85 lakh in 2014-15 and (iii) under UGC-CAS II for Department of Geology: Rs.64.90 lakh (2013-14) and Rs.10.84 lakh (2014-15).
- The overhead allocations from research projects are also partially used for maintenance of laboratory and infrastructure related to research. The amount of such overhead allocations were Rs.33.99 lakh, Rs.16.81 lakh and Rs.6.43 lakh respectively in 2014-15, 2013-14 and 2012-13.
- Apart from the conventional fees structure inherited by the university from the erstwhile Presidency College, the university has introduced new fees like fees for document (grade card) verification, fees for pursuing PhD course, fees from the foreign students pursuing any course in the university, transport fees and so on.
- The university has taken initiative for earning revenue through rendering consultancy services by its academic departments to various corporate houses and by renting out the playground and auditorium to the outside bodies like schools, colleges, banks, etc. In the years 2012-13, 2013-14 and 2014-15, the university earned Rs. 0.65 lakh, Rs.7.47 lakh and Rs.2.93 lakh by renting out its auditorium and playground. The University also earned Rs.8.32 lakh (and Rs.0.72 lakh in 2013-14 and Rs.7.60 lakh in 2014-15) through consultancy services rendered by the Department of Geology.
- The university has appealed to its alumni and corporate sectors for providing financial support by way of generous donations in its endeavour to achieve academic excellence. In this respect, a special Fund named “Presidency University Vice-Chancellor’s Fund for Excellence” has been created. In order to encourage the prospective donors in this regard, the University has got necessary approval from the Director General of Income Tax (Exemptions), Department of Revenue, Ministry of Finance, Govt. of India so that the donors may get deduction @100% of the amounts donated by them U/S 80G(2) (iiif) of the Income Tax Act, 1961.

#### 6.4.6 Is there any provision for the university to create a corpus fund?

The university has established the “Presidency University Vice-Chancellor’s Fund for Excellence” comprising donations/ contributions of both corpus and non-corpus nature. At present, the size of the Fund is Rs.778 lakh out of which the amount of Corpus Fund is Rs.766 lakh. More than thirty (30) donors have contributed towards the fund; among those who are worth mentioning are Dr. Sudha Murthy Infosys Foundation (Rs.5 Crore for Chair Professor in Economics), Luxmi Charitable Trust (Rs.1.05 Crore for Chair Professor in History), Prof. Ashoke Sen (Rs.25 lakh), IAS Training Centre (Rs.32 lakh for Scholarship), Natore Raj Estate (Rs.25 lakh for Scholarship) and so on. A number of friends and alumni of Presidency living abroad are expected to provide financial support to the university in its efforts to elevate it to the status of Centre of Excellence. For this the university has been granted Registration under the Foreign Contribution (Regulation) Act, 2010, by the Ministry of Home Affairs of the Govt. of India. It is expected that very soon the university

## Presidency University

would be able to get contributions from foreign sources also.

### 6.3.3 What are the welfare schemes available for teaching and non-teaching staff? What percentage of staff have benefitted from these schemes in the last four years? Give details.

#### Welfare schemes:

- Group Mediclaim (Tailor-made) Insurance Scheme with partial contribution from incumbents. Medical expenses for the employees (teachers, officers and non-teaching employees) that was borne by the University were Rs.12.61 lakh and Rs.16.98 lakh in 2013-14 and 2014-15, respectively.
- Institution of General Provident Fund Account for the permanent employees of the university with Pay & Accounts Office, Govt. of West Bengal.
- Introduction of Death-cum-Retirement Benefit Scheme for the permanent employees of the university in terms of the extant Rules and Orders of the Govt. of West Bengal.
- Support for off campus IT network: Provided to all teaching staff and university officers.
- Reimbursement of moving expenses incurred by the newly recruited faculty members coming from abroad.
- Meeting expenditure for the purpose of Faculty Research & Professional Development at the annual rate of Rs.1 lakh, Rs.2 lakh, Rs.3 lakh and Rs.4 lakh, respectively, for each Assistant Professor, Associate Professor, Professor, and Distinguished Chair Professor.

### 6.3.4. What are the measures taken by the University for attracting and retaining eminent faculty

- The State Govt. has created five positions of Distinguished University Professors in different fields, offering attractive pay and benefits for research and professional development.
- Besides the Distinguished University Professors, several Chair Professor positions have been created with private funds which carries a higher pay and research fund.
- The university has provision for the reimbursement of moving expenses incurred by the newly recruited faculty members coming from abroad.
- For the university faculty members, the Faculty Research and Professional Development Fund (FRPDF) is an added incentive at all levels. Under this scheme, each Assistant Professor, Associate Professor, Professor, and Distinguished Chair Professor is allocated a fund of Rs.1 lakh, Rs.2 lakh, Rs.3 lakh and Rs.4 lakh per annum, respectively, for incurring expenditure related to their research works and professional development. Expenditure incurred by the university under this Scheme were Rs.59.14 lakh, Rs.125.39 lakh and Rs.148.17 lakh in 2012-13, 2013-14 and 2014-15, respectively.
- The Presidency University Act also has provisions for granting awards and honorarium to outstanding achievers in research, publications, etc. from the Corpus Fund.

## 6.5 Internal Quality Assurance System

### 6.5.1 Does the university conduct an academic audit of its departments? If yes, give details.

Yes, ever since its inception, the university has conducted annual academic audit of its departments on the basis of the information (obtained from the departments) on the

(a) courses offered,

(b) number of members of the faculty,



- (c) research areas of the members of the faculty,
- (d) ongoing/completed research projects,
- (e) list of publications (journal articles/books/book chapters),
- (f) seminars, conferences attended and invited talks delivered by the members of the faculty,
- (g) seminars, conferences and invited talks organized by the department,
- (h) collaborative programmes undertaken, and
- (i) major achievements of the members of the faculty/ department.

The information obtained is compiled in the Annual Report of the university. This helps to analyze the academic performance of the university regularly.

**6.5.2 Based on the recommendations of the academic audit, what specific measures have been taken by the university to improve teaching, learning and evaluation?**

Based on the activities of the departments listed in the Annual Report, the university decided on the

- (a) choice of research areas where thrust should be given,
- (b) introduction of new courses at the undergraduate and postgraduate levels,
- (c) computerization of the evaluation system.

**6.5.3 Is there a central body within the university to continuously review the teaching learning process? Give details of its structure, methodologies of operations and outcome?**

The Faculty Council reviews the teaching-learning process in the university. The Council consists of the Vice-Chancellor as the chairperson, the Dean of the Faculty concerned, the Heads of the academic departments of that faculty, all full time professors of these departments, and three external subject experts as members.

The principal role of the Faculty Council is to

- (a) discuss the recommendations of the Board of Studies of the academic departments on academic matters,
- (b) prepare the academic calendar,
- (c) recommend possible revision of the syllabi in the departments, and
- (d) consider the syllabi and course-structure in the departments for approval.

The major decisions taken in the Faculty Council are sent to the Governing Board for endorsement.

**6.5.4 How has IQAC contributed to institutionalizing quality assurance strategies and processes?**

The IQAC committee, comprising external members, deliberates on specific quality related issues and advises strategies and processes to improve the academic and administrative performance of the university. The suggestions of the IQAC are placed before the statutory authorities of the university, e.g., the Governing Board or the Faculty Councils, for discussion and subsequent implementation.

**6.5.5 How many decisions of the IQAC have been placed before the statutory authorities of the university for implementation?**

- Proposal for CAS to be placed before the GB

## Presidency University

### **6.5.6 Does the IQAC have external members on its committees? If so, mention any significant contribution made by such members.**

Yes, the IQAC committee has three external members - one of them from industry, one is an eminent advocate, and one is from academia - who take part actively in the deliberations when the IQAC committee meets.

### **6.5.7 Has the IQAC conducted any study on the incremental academic growth of students from disadvantaged sections of society?**

The university administration regularly monitors the performance of the students from the disadvantaged sections of the society.

### **6.5.8 What policies are in place for the periodic review of administrative and academic departments, subject areas, research centres, etc.?**

Such reviews are conducted periodically by the Statutory bodies of the university, namely, the departmental Academic Committees which have now been reconstituted as the Board of Studies, Faculty Councils, departmental PhD Committees, Doctorate Committees of the Faculty of Natural & Mathematical Sciences, and the Faculty of Humanities and Social Sciences. These bodies review the academic and administrative functioning of the university on a regular basis. Measures are taken, when necessary, at all levels, to ensure the efficient functioning of all components of the university.

## CRITERIA VII

### Innovations and Best Practices

#### 7.1 Environment Consciousness

##### 7.1.1 Does the university conduct a Green Audit of its campus?

University is yet to implement energy audit. However, with expanding infrastructure and laboratory requirements an efficient power management system is now being installed. Energy efficient airconditioning and illuminations replace old AC-plants and other appliances.

##### 7.1.2 What are the initiatives taken by the university to make the campus eco-friendly?

- Energy conservation: Energy conservation through replacing old appliances and illuminations with energy efficient modern installations
- Use of renewable energy:
- Water harvesting: A water harvesting project is under progress at the Geography Department
- Check dam construction: NA
- Efforts for Carbon neutrality :
- Plantation: University maintains a central garden and patches of greenery all around the campus wherever some space is available for gardening. Besides a central football ground is maintained as major green area within the campus. A butterfly park and mini green house is maintained by the Department of Biological sciences.
- Hazardous waste management: Standard procedure is followed in respect of hazardous chemicals management.
- e-waste management: E-waste management policy has been framed up and followed. Principle of recycling is followed through proper e-waste disposal vendors.
- any other (please specify): Research projects and PhD programmes are also undertaken environmental problems such as Arsenic and Fluoride contamination in groundwater, heavy metal pollution

#### 7.2 Innovations

##### 7.2.1 Give details of innovations introduced during the last four years which have created a positive impact on the functioning of the university.

- **Choice Based Curricular Design and the implementation of an Interdisciplinary GenEd programme**

The university has been successful in establishing and maintaining a dynamic choice-based curriculum at both undergraduate and postgraduate degree levels. This curriculum includes, for the first couple of years of undergraduate learning, an interdisciplinary General Education programme (Gen Ed), where students, from all disciplinary backgrounds, are exposed to a variety of both foundational and cutting-edge courses in the humanities, natural sciences and social sciences. In addition to the GenEd programme in the undergraduate level, in both the undergraduate and graduate programmes, students are taken through a great variety of compulsory and optional courses and primary research-based dissertations.

## Presidency University

- **Interactive teaching methodologies and innovative pedagogy**

The university has introduced dynamic pedagogical methods, by designing teaching in terms of different kinds of interactions. Conventional lectures constitute a small part of the teaching. Students are made to discuss in class, work for creative assignments in the libraries and fields, write tutorial papers, participate in group discussions, and work for their papers under close personal supervision of faculty members. Other than this, the university has started e-classrooms, where, aided by a highly advanced infrastructure of information and communications technology, virtual interactive learning has taken place with eminent scholars, of natural and social sciences, located in several illustrious institutes of the world.

- **Innovation in evaluation system**

The evaluation of students' academic performances consists of a balance between continuous and customised grading throughout the term--based on different registers of academic expression, designed to suit the uneven and varying strengths and weaknesses of different students--and a more traditional examination at the end of the term. This end-term examination is also made creative by framing questions in a manner which aims to assess the capacity of autonomous and critical thinking, instead of rote learning.

- **Innovation in university management through e-governance**

Presidency University has been able to offer, to its students, faculty, and staff, immense benefits of e-governance in several critical areas of administrative functioning.

- a. There is high-speed wireless access round the clock all over the campus. Students, faculty, and staff have their individual gateways in the server through which they can access a huge pool of academic databases, which the university keeps updating and augmenting.
- b. There is a user-friendly online leave portal for the faculty and staff, which ensures regular, systematic, and paperless fast sanction of leaves. The portal includes the leave rules, and is designed in such a manner that it can brief the applicant in detail about the terms and conditions of each kind of leave.
- c. The office of the Controller of Examinations has recently introduced a simple and smooth portal for the submission of marks, which has made an arduous and multilayered process direct, fast and effortless. The same office has also made the admission procedure of new students, and examination registration of existing students entirely online, thereby extending the benefits of this system to every student of the university.
- d. The Finance Office has introduced various similar measures of online communication and instruction regarding the different kinds of financial activities involving faculty and staff. A leading example of this is the online General Provident Fund statement, which the Finance Office maintains, and has made open to all employees for their perusal.

- **Creation of Distinguished Chair Professorships to promote excellence**

Presidency University has introduced a number of Distinguished Chair Professorships in various academic disciplines of the humanities, natural and social sciences. These include the A.J.C Bose Professor of the Natural Sciences, the Tagore Professor of Humanities, the Netaji Subhash Chandra Bose Professor of the Social Sciences, the Nazrul Islam Professor of Peace Studies and others. Internationally renowned senior scholars have been appointed to these positions who have acted as inspiring mentors to various departments in their academic activities.

- **Presidency Public Lecture Series**

Under the guidance of the Vice-Chancellor, Prof. Anuradha Lohia, the university has launched a

prestigious Public Lecture Series where students and faculty get an opportunity to interact with some of the brightest minds and eminent scholars of the world in the natural and social sciences. Till now, as part of this series, lectures have been delivered by a great diversity of internationally reputed scholars and notable personalities like His Holiness the Dalai Lama, astronomer J.V. Narlikar, literary scholar and activist Gayatri Chakravorty Spivak, economist Bimal Jalan, social activist Ruchira Gupta, brain scientist Mriganka Sur, biologist Inder Verma, and many others. An earlier series of Public Lectures in the winter of 2013-14 brought eminent lecturers from across the world to speak in person or via weblink. They included Vladimir Voevodsky of Princeton, Yuri Manin of Max Planck Institut, Sankar Das Sarma of Maryland, Dilip Mookerjee of Boston, Sugata Bose of Harvard, and Nicholas Roe of St Andrews.

- **Dissemination of knowledge and social outreach through creative Postgraduate programmes and Research Schools at the Himalayan Centre of Presidency University at Dow Hill, Kurseong**

Aided by a generous financial and land grant from the Government of West Bengal, the University is in the process of designing a range of new taught programmes and research schools in its third campus at Dow Hill, Kurseong. These include a postgraduate and research programme in Social Anthropology and Borderland Studies, Astrophysics, and a research centre in Himalayan Geology and Biodiversity. These programmes and schools aim to combine academic learning with social welfare, involving the local community.

### 7.3 Best Practices

#### 7.3.1 Give details of any two best practices which have contributed to better academic and administrative functioning of the university.

##### Best Practice: 1

##### 1. Title of the Practice : Faculty Research and Professional Development Fund (FRPDF)

Presidency University built this exclusive fund for its faculty in order to enable various kinds of activities related to research. It is intended that encouraged by such financial support, junior and senior scholars would complement their teaching duties with international standard, cutting-edge research in their respective fields of study. This fund is supposed to achieve the twin interrelated goals of combining teaching and research of the best form, which would feed into each other, thereby producing a dynamic culture of academic excellence. It was also believed, in designing this fund, that research-oriented faculty would be drawn towards Presidency University from all over the country, as this kind of fund is not present in many state/central government-aided higher educational institutions of India.

##### 2. The Context:

The exclusive scheme for Presidency University could be successfully introduced as Presidency is the most illustrious institution of higher learning in the state, even considered among the best in Asia. In its transformation into an university, it was promised that it would set a similar standard of excellence. To achieve this mighty task, it needed some infrastructural innovations, which would help the institution-builders, that is, primarily the academic faculty, to match the present-day standards of excellence in teaching and research.

##### 3. The Practice:

The funds are allocated every year, in the form of fixed and different amounts, to different designations of the faculty members. Assistant Professors, Associate Professors, Professors, and Distinguished Chair Professors receive Rs. 1 Lakh, Rs. 2 Lakh, Rs. 3 Lakh and Rs. 4 Lakh, respectively. The funds are made available to meet various kinds of expenses related to research. They can be used to procure equipment, of all possible kinds, which are needed for field-based, or laboratory-based work, or even any

## Presidency University

specialised form of teaching. They can be used for the purchase of books, or subscriptions of journals, and journal databases, necessary for any scholar in any particular field of study. They can be used to pay for membership in any professional academic association of scholars. The funds can be used to attend conferences, nationally and internationally.

In order to facilitate appropriate use of the funds, scholars are asked to submit applications, with detailed description of the purpose for which they are requesting for the funds. These applications are assessed by the Vice-Chancellor, and the Finance Officer, following which funds are disbursed. The funds are spent by all scholars following the rules of purchase framed by the Government of West Bengal, and accounts of the expenditure are maintained, submitted, and audited following the same rules. The Finance department of the university, in order to enable these activities, have drafted clear rules of procedure, enlisted different kinds of registered vendors through whom purchase is made, and made all these details available to the faculty.

Equipments, books, and other non-perishable academic material purchased with these funds are considered assets of the University, and not properties of the scholars who purchased them. The University grants full freedom of use of such materials to the scholars who have procured them during their tenure. However, if and when the concerned faculty member leaves the university she/he is requested to return these items, or is given the option to purchase them, after having deducted the necessary cost of depreciation that the items have undergone over the period of time they were in use. In this manner a just, equitable, and efficient system of allocation, use, and distribution of public funds is maintained by the university administration.

As an innovative practice, inspiring a global standard of academic excellence in a resource-constrained environment of higher learning, which is joined to a practice of fair, free, and methodical implementation, the FRPDF of Presidency University stands unparalleled, in relation to any other institution of higher learning in India.

#### **4. Evidence of Success (Provide evidence of success such as performance against targets and benchmarks, review results. What do these results indicate? Describe in about 200 words).**

In the three years that the FRPDF has been implemented, signs of success are several. Inspired by this scheme, faculty members in different disciplines, of all designations, have invested a great deal of time, energy, and thoughts in different kinds of research activities. They have set up specialised laboratories, with cutting-edge instrumentation, procured books and journals, attended and participated in conferences all over the world, used rare library and archival resources of special collections, or conducted fieldwork. Collectively FRPDF grant set in motion vibrant culture of research in the University global intellectual exposures. This has contributed to their teaching, in the form of introduction of the best and most contemporary thoughts in the form of new courses in different disciplines. It has also contributed to their research, as they have published in high impact-factor international journals, and brought out books from the finest publishers, and become part of some of the most cutting-edge book series of international publishing houses. They have also organised conferences, special lectures, workshops and other similar academic activities, using these funds, thereby building networks with the best scholars in their fields, and making the university visible on the global map of learning. The fund has contributed to research resources by bringing in much needed books and equipment to the institution.

#### **5. Problems Encountered and Resources Required**

In view of the costly requirements of research in both the social and natural sciences, more funds are required to maintain the excitement and positive effects of this scheme. As learning becomes more specialised and interdisciplinary at the highest level, resources necessary to pursue such learning, like

specialised databases, computer applications, instruments, books, and other items, can only be obtained if an enlargement of the FRPDF funds are made possible. Moreover, to house these facilities of research, the university needs more, and efficiently-designed physical space. Also, more and more time is required to be involved in such levels of research, which it is difficult to find, given that in most of the departments all faculty positions have not yet been filled. Therefore, the augmentation of funds, space, and personnel is critically required to keep up the beneficial effects of this great innovation at Presidency University.

**Best Practice: II:**

**1. Title of the Practice: GenED (General Education) UG Programme.**

**2. Objectives of the Practice:**

The traditional undergraduate degree curricula are based on a core subject and two related elective subjects from a limited choice for respective Honours programmes. The present-day global university education adopted choice-based curricular system with elements of flexibility. Presidency University from the very beginning embraces the concept of the CBCS through the GenED programme at the UG degree level. The university further intends to promote flexible choice across disciplines and across faculties to bring in the practice of liberal education. The objective of this programme is to offer optimum choices to UG students to pursue subject(s) of interest as elective courses cutting across disciplines and faculty.

**3. The Context: What were the contextual features or challenging issues that needed to be addressed in designing and implementing this practice)?**

The present-day higher education system globally encourages interdisciplinarity. Many new subjects and areas are being introduced at graduate and more so at postgraduate levels. Such interdisciplinarity is in demand by the stakeholders in the industry, for cutting edge research in emerging fields of Biotechnology, Climate Science, Environmental Science, Space Science, Natural Resource Management, Rural Development, Social Science, Management Science, Media Science, Peace Studies, Nanotechnology, Digital Humanities, Cognitive Science, Cultural Studies, Linguistics, Medical Science and many other areas. University undergraduate and postgraduate curricula should introduce and induct elements of interdisciplinarity to open the expanding horizon of higher education to the students. The GenEd programme introduced in Presidency in a way unique in the country addresses these issues in designing the programme.

**4. The Practice: Describe the practice and its uniqueness in the context of India higher education. What were the constraints / limitations, if any, faced?**

The GenEd programme is offered to every undergraduate student majoring in different disciplines. Each department offers at least four courses of four credits each in first four semesters. A student has to take ten such courses spread over four semesters in addition to his/her chosen discipline in Major subject. In four semesters the 15 departments offer more than 60 courses. Students majoring in the sciences will have to take at least two courses from the humanities discipline and vice versa. The Gen Ed course modules are designed carefully keeping in mind the interest and subject background of students coming from different disciplines for a particular GenEd course. Some of these courses are open to students of all disciplines. Some courses that require a specific subject background are restricted to students of respective faculties or related major subjects. This provides a unique combination and blending for the elective subjects, so that a student can enrol for GenEd that would facilitate his/her understanding of chosen Major subject. At the same time instead of going through all the modules of such elective subject he/she has the option not to select the modules which are not of much requirement for the specific major. This flexibility offers a scope for selecting other GenEd programmes of his/her wider interest.

**5. Evidence of Success**

The Gen Ed programme has already engendered a spirit of interdisciplinarity in a rudimentary form. Science students are reading literature while philosophy students understand statistics. The most important evidence of success is the broadening of horizons for students beyond disciplinary barriers. Although time has not yet come to present statistical evidence, anecdotal evidences are in plenty. In UG Gen Ed exam a student of English while explaining postmodernism referred to the varying waves of same light in different frequencies that create differences for the viewers. Similarly a political science student while explaining caste incorporates rock stratification from geology Gen Ed to explain the concept.

**6. Problems Encountered and Resources Required**

The idea of Choice-Based Credit System, is based on multiplicity of choices for students. Ideally such a system operates through faculties offering courses which are open across disciplines. Two crucial determinants are then, number of faculties and second the infrastructure to accommodate simultaneous classes of multiple courses. For optimum implementation of objectives of the programme more faculty, lecture theatres with higher seating capacity will be required.



## APPENDIX

1. UGC Notification u/s 12B
2. UGC Notification : Educational Institution of National Eminence
3. UGC Notification u/s 2f
4. WB HE Notification for Transformation from Presidency College to Presidency University
5. Presidency University Act 2010 (Title Page)
6. Presidency University Amendment Act 2013 (Title Page)
7. UGC Grant Sanction Letter
8. Income-Expenditure Statements for last two years
9. MoU documents
10. Organizational Structure

23235733, 23232317, 23236735, 23239437

[www.ugc.ac.in](http://www.ugc.ac.in)



Speed Post

F.No. 9-23/2010 (CPP-I/PU)

NOTIFICATION

Enclosure - 2

बहादुरशाह जफर मार्ग  
नई दिल्ली-110 002

UNIVERSITY GRANTS COMMISSION  
BAHADURSHAH ZAFAR MARG  
NEW DELHI-110 002

January, 2012

11 JAN 2012

Presidency University, 86/1 College Street, Kolkata – 700 073 has been established by Government of West Bengal through an Act (No. 13 of 2010) of West Bengal legislature and notified vide State Government Gazette No. 1047-L dated 7<sup>th</sup> July, 2010. The University is now declared eligible to receive Central Assistance in terms of Rules framed under Section 12(B) of the UGC Act, 1956.

  
(Shashi Bala Arora)  
Under Secretary

Copy to:-

1. The Vice-Chancellor, Presidency University, 86/1 College Street, Kolkata – 700 073 West Bengal.
2. The Secretary, Government of India, Ministry of Human Resource Development, (Department of Secondary & Higher Education), Shastri Bhawan, New Delhi-110 001.
3. The Addl. Chief Secretary (Higher Education), Govt. of West Bengal, 6<sup>th</sup> Floor, Room No.604, Biksh Bhawan, Salt Lake, Sector-2, Kolkata – 700 091.
4. The Director, Distance Education Council, IGNOU, Maidan Garhi, New Delhi.
5. The Secretary General, Association of Indian Universities, 16 Kotla Marg, New Delhi 110 002.
6. The Director, National Assessment and Accreditation Council (NAAC), Bangalore – 560 010 (Karnataka).
7. The Director, Medical Council of India, Medical Council of India, Pocket – 14, Sector – 8, Dwarka Phase –I, New Delhi – 110 075.
8. The Secretary, Union Public Service Commission, Shahajahan Road, New Delhi 110 001.
9. Joint Secretary, State Universities, UGC, New Delhi.
10. Senior Statistical Officer, UGC, 35, Ferozshah road, New Delhi – 110 001.
11. Publication Officer (website), UGC, New Delhi.
12. SO (Meeting) UGC, New Delhi (ATN UGC item No. 5.06 dated. 22.12.2011)
13. All Regional Offices, UGC.
14. DS (FD)/SO (FD), UGC New Delhi.
15. DS (SU)/JS (XIth Plan) UGC, New Delhi.
16. SO (CPP-I) UGC, New Delhi.
17. Guard File.

  
(Shashi Bala Arora)  
Under Secretary

Ph 23236351, 23232701, 23237721, 23234116  
23235733, 23232317, 23236735, 23239437

[www.ugc.ac.in](http://www.ugc.ac.in)



विश्वविद्यालय अनुदान आयोग  
बहादुरशाह जफर मार्ग  
नई दिल्ली-110 002  
UNIVERSITY GRANTS COMMISSION  
BAHADURSHAH ZAFAR MARG  
NEW DELHI-110 002

**SPEED-POST**

No. F. 9-23/2010 (CPP-I/PU)

December, 2012

The Director General  
Income Tax (Exemption),  
Aayakar Bhawan, Plot – 15,  
2<sup>nd</sup> Floor, Laxmi Nagar,  
District Centre,  
**Delhi – 110 092.**

4 DEC 2012

Sub: - Approval for exemption under section 80G(2)(a)(iiif) of the Income Tax Act, 1961 in respect of Presidency University, Kolkata (West Bengal)

Sir,

I am directed to refer to the request of the Vice-Chancellor of Presidency University, Kolkata (West Bengal) vide No. VC/DGIT(E)80G/22-11/2 dated 22-11-12 (copy enclosed) for granting approval for Income Tax exemption on the donation made to this institution under section 80G(2)(a)(iiif) of the Income Tax Act 1961. In this connection, the following it is stated: -

Presidency University, Kolkata (West Bengal) has been established by an Act of the State legislature of West Bengal as a State University.

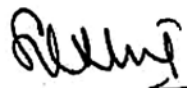
It is also hereby confirmed that Presidency University, Kolkata (West Bengal) is an educational Institution of National eminence and is recommended for granting approval of Income Tax exemption under Section 80G(2)(a)(iiif) of the Income Tax Act 1961.

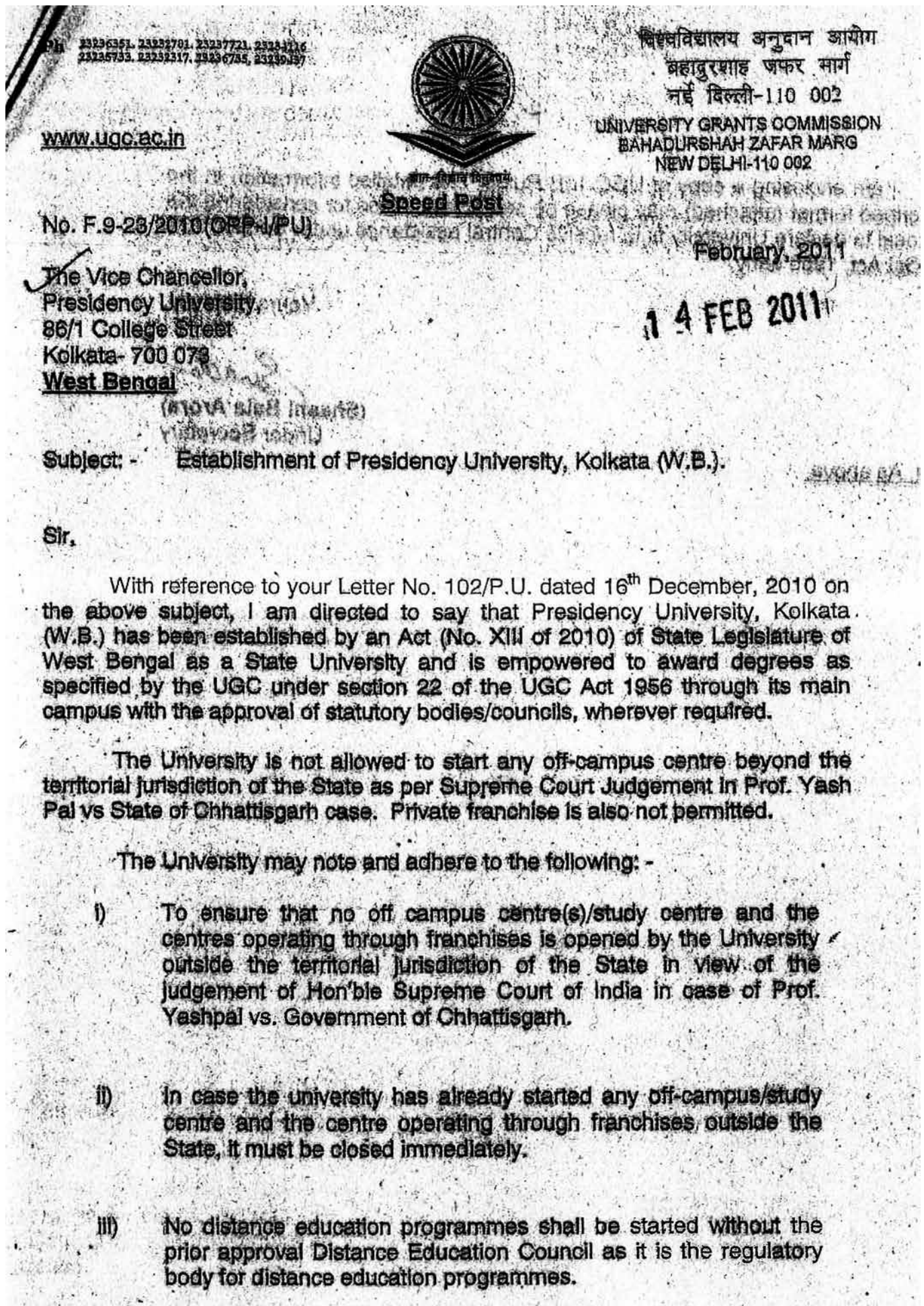
Yours faithfully,

(Dev Swarup)  
Joint Secretary

Encl: As above.

Copy to: - ✓ Vice-Chancellor, Presidency University, 86/1 College Street, Kolkata – 700 073, West Bengal

  
(Dev Swarup)  
Joint Secretary



-2-

I am enclosing a copy of UGC 12B Rules. The detailed information in the prescribed format (attached) may please be sent to this office for considering the proposal to declare University fit to receive Central assistance under Section 12B of UGC Act, 1956 early.

Yours faithfully,

*Shashi*  
**(Shashi Bala Arora)**  
Under Secretary

Encl: As above.

Government of West Bengal  
Higher Education Department  
Appointment Branch  
Bikash Bhavan, Salt Lake  
Kolkata - 700 091

No. 31/JS/(SKG)/H.E.

Date: 12.8.2

From: Shri Sridhar Kumar Ghosh  
Joint Secretary

To: Prof. Amitava Chatterjee  
Acting Principal,  
Erstwhile Presidency College,  
Kolkata, West Bengal

**Sub: Enactment of Presidency University Act 2010 transitory provision.**

Sir,

You may be aware that the Presidency University Act, 2010 has been enacted and has come into force w.e.f 7<sup>th</sup> July, 2010 with its publication in the Gazette. Subsequently, a notification under sub-section 2 of section 1 of the Act has been brought out bringing section 1 and section 55 of the Act into force w.e.f 7.07.2010 as per provision of sub section 2 of section 1. Section 26 and 56 of the Act have come into force w.e.f. 7.07.2010.

A per clause (b) of sub-section 8 of section 55, all sanctioned posts of the College shall stand transferred to the University and all Government employees employed in the College will continue to function under the University in their existing capacities till such time the posts are actually filled up by the University or the incumbents are posted elsewhere by appropriate Government Orders or Notifications to be issued from time to time. The said Government employees during their tenure in the University will continue to enjoy the same pay and allowances upon the same terms and conditions of service with the same rights and privileges as to pension, gratuity, provident fund, savings cum group insurance scheme and other matters as they would enjoy as the State Government employees.

Consequently, all the employees of the erstwhile college will continue to function in the University in their respective existing capacities until further orders by the competent authority.

This is for your information and necessary action.

For your ready reference a copy of the Presidency University Act, 2010 and a copy of the Notification no.416-Edn(U) dated 27.07.2010 are enclosed herewith.

Yours faithfully,

(Sridhar Kumar Ghosh)  
Joint Secretary

Encl: As above.

**The**



**Kolkata** **Gazette**

सत्यमेव जयते

*Extraordinary*  
Published by Authority

ASADHA 16]

WEDNESDAY, JULY 7, 2010

[SAKA 1932

PART III—Acts of the West Bengal Legislature.

**GOVERNMENT OF WEST BENGAL**

**LAW DEPARTMENT**

**Legislative**

**NOTIFICATION**

No. 1047-L.—7th July, 2010.—The following Act of the West Bengal Legislature, having been assented to by the Governor, is hereby published for general information:—

**West Bengal Act XIII of 2010**

**THE PRESIDENCY UNIVERSITY ACT, 2010.**

[*Passed by the West Bengal Legislature.*]

[Assent of the Governor was first published in the *Kolkata Gazette*,  
*Extraordinary*, of the 7th July, 2010.]

*An Act to provide for constitution of the Presidency University and for certain matters connected therewith and incidental thereto.*

WHEREAS it is expedient to confer on Presidency College, a Government College with rich heritage, the status of a University to enable it to function more efficiently as a teaching, training and research centre in various branches of learning and courses of study, especially in Humanities, Social and Basic Sciences, and promoting advancement and dissemination of knowledge and learning, and

**The**  
  
**Kolkata** **Gazette**  
सत्यमेव जयते  
*Extraordinary*  
Published by Authority

JYAISTHA 22]

WEDNESDAY, JUNE 12, 2013

[SAKA 1935

PART III—Acts of the West Bengal Legislature.

**GOVERNMENT OF WEST BENGAL**  
**LAW DEPARTMENT**

**Legislative**

NOTIFICATION

No. 952-L.—12th June, 2013.—The following Act of the West Bengal Legislature, having been assented by the Governor, is hereby published for general information:—

**West Bengal Act XI of 2013**

**THE PRESIDENCY UNIVERSITY (AMENDMENT) ACT, 2013.**

*[Passed by the West Bengal Legislature.]*

*[Assent of the Governor was first published in the Kolkata Gazette,  
Extraordinary, of the 12th June, 2013.]*

*An Act to amend the Presidency University Act, 2010.*

WHEREAS it is expedient to amend the Presidency University Act, 2010, for the purposes and in the manner hereinafter appearing;

West Ben. Act  
XIII of 2010.

It is hereby enacted in the Sixty-fourth Year of the Republic of India, by the Legislature of West Bengal, as follows:—

Short title and  
commencement.

1. (1) This Act may be called the Presidency University (Amendment) Act, 2013.

(2) It shall come into force at once.



अशोक कुमार डोगरा  
Ashok K. Dogra

संयुक्त सचिव  
Joint Secretary



दूरभाष PHONE : कार्यालय OFF : 23232055  
फैक्स FAX : 23219716

विश्वविद्यालय अनुदान आयोग

बहादुर शाह ज़फर मार्ग, नई दिल्ली - 110 002

**UNIVERSITY GRANTS COMMISSION**

Bahadur Shah Zafar Marg, New Delhi-110 002

E-mail : akdogra@ugc.ac.in

D.O.No.87-1/2012(SU-1)

June, 2013

Dear Sir/Madam,

**25 JUN 2013**

As you are aware during the first year of XII Plan period, UGC has released the Plan grant on-ad-hoc basis pending finalisation of XII Plan allocation. Now, the matter was placed before the Commission at its meeting held on 10<sup>th</sup> May, 2013. Based on the availability of funds from Govt. of India, Commission has approved tentative XII Plan allocation in respect of your University under Plan at Rs. 8.00 crore (Rupees eight crore only), for XII Plan allocation, including allocation for Merged Schemes.

An ad hoc grant already released to your University under General Development Assistance scheme during XII Plan Period will be adjusted against the approved allocation for XII Plan Period now proposed to be allocated to your University.

- The XII Plan General Development Assistance to universities will be provided in the form of Plan Block Grant. For State Universities, it will include construction/renovation of building (including renovation of heritage buildings), campus development, staff, books & journals, laboratory, equipment and infrastructure, annual maintenance contract, innovative research activities, university industry linkages, extension activities, cultural activities, development of ICT, health care, student amenities including hostels, Travel Grant, Conferences / Seminars / Symposia / Workshops, Publication Grant, Appointment of Visiting Professor/Visiting Fellow and Establishment of Career & Counseling Cell, Day Care Centres, Basic Facilities for Women and Faculty Development Programme, etc.
- The Concept of Merged Scheme Introduced during the XI Plan has been done away with and no separate grant under the Merged Schemes will be provided during the XII Plan.
- The scheme called ENCORE which was initiated during XI Plan now will be a part of XII Plan General Development Assistance. No separate funding will be provided for this scheme.
- The erstwhile Scheme of XI plan i.e. Human Rights and Duties Education is also covered under XII Plan General Development Assistance Scheme. No separate funding will be provided for this scheme.
- Appointment/ honorarium of guest part time teachers, now will be a part of XII Plan General Development Assistance scheme.
- Establishment of Rajiv Gandhi Chairs in Universities may be continued during XII Plan as establishment of Chairs in Universities.
- An independent scheme of Internal Quality Assurance Cell and construction of Women Hostel will be implemented in all State Universities and now will not be a part of merged scheme and shall be continued as a separate scheme.
- The Scheme of Special Honorarium to teachers who are fellows of at least two of the four science academies identified by UGC will be continued during XII Plan as a separate scheme.
- It is also mentioned here that the following schemes which were earlier part of Merged Scheme now will be implemented independently by a SCT cell of UGC and separate grant will be provided by UGC under these schemes:

- Equal Opportunity Cell
- Remedial Coaching for SC/ST/OBC (non-creamy layer) and minority community students
- Coaching for NET for SC/ST/OBC (non-creamy layer) and minority community students
- Coaching Classes for entry into services for SC/ST/OBC (non-creamy layer) and minority students.
- Scheme for persons with disabilities

The guidelines on the above scheme are being revised and will be provided to the university by the concerned bureau of UGC in due course of time.

- Expenditure on construction and renovation of buildings should not exceed 50% of the total allocation of the Plan Block Grant. No building proposals in case of the universities, need to be sent to UGC for approval and the building proposals be approved at the University level itself. However, the university may place the building proposal before the Finance Committee for its approval after obtaining the approval from the Building Committee. The Building Committee should be constituted as per UGC guidelines. University may send the completion documents to UGC after completion of each building projects separately.
- University may not initiate the work / project i.e. approach road, water pipe line, electric sub-station etc. which are the responsibility of the State Government. University may take up the matter with State Government or Central Government as the case may be.
- The Central Vigilance Commission (CVC) vide its letter No.011/VGL/014 dated 11<sup>th</sup> February, 2011 has circulated the instructions on "Transparency in Tendering System" and No.01-11-CTE-SH-100 dated 17.02.2011 (copy enclosed) regarding "Mobilization – Advance". Therefore, the construction work should be as per General Financial Rules, 2005 and CVC instructions issued from time to time.
- The University may follow strictly the Government of India/UGC's guidelines regarding implementation of the reservation policy [both vertical (for SCs, STs & OBCs) and horizontal (for persons with disability etc.)) in teaching and non-teaching posts.
- The release of grant will also be linked to academic and administrative reforms as well as compliance of various policies of the UGC and the Government of India.
- As per UGC (Mandatory Assessment and accreditation of Higher Educational Institutions) Regulation, 2012, it shall be the mandatory for each Higher Educational Institution to get accredited by the Accreditation Agency after passing out of two batches or six years whichever is earlier, in accordance with the norms and methodology prescribed by such agency or the Commission, as the case may be. Therefore, university may get accreditation if it has not been done so far failing which UGC will take appropriate action for withholding of all grants.
- University may maintain a separate account under plan schemes for creation of capital assets (Non-Recurring), Grant-in-Aid General (recurring) and salary head and furnish the year wise information to UGC for each item of expenditure incurred under Plan Grant indicating General, SC and ST components separately.
- University may utilize proportionate grant on half yearly basis. Any portion which remain unutilized will be considered to be lapsed. UGC will also consider allocating the unutilized grant of the University to other Universities which are better performing and are also following the various academic reforms as well as implementation of various policies of Govt. of India. Therefore, the University is advised to utilize the grant fully.
- University is therefore requested to work out itemwise priorities of University within the XII Plan allocation as decided herein before by the Commission. The same may be sent to UGC in the enclosed format (itemwise) within one month for record purpose.
- The University may obtain the prior administrative approval of UGC for creation of any teaching posts under Block Plan Grant if it required essentially.

- I hope the University must have also initiated the Academic Reforms as already circulated by the UGC vide its D.O.No.F.1-2-2008 (XI Plan) dated 31<sup>st</sup> January, 2008 and subsequent reminder vide D.O.No.F.1-2-2008 (XI Plan) dated 17<sup>th</sup> October, 2012 (copy enclosed). It may also be ensured that the University has adopted the University Grants Commission (Minimum Standards and Procedure for award of M.Phil/Ph.D Degree), Regulations,2009 UGC Regulation on Minimum Qualification for appointment of teachers and other Academic staff in Universities and Colleges and Measures for the Maintenance of Standards in Higher Education 2010.

In the end, I would request you to ensure that documents pertaining to utilization of the grants received by the university shall be submitted to the UGC in time to enable smooth management of funds and to avoid unnecessary audit objections. The release of grant would depend on the pace of expenditure by the University & timely submission of utilization certificate / statement of expenditure.

Please feel free for any clarifications in this regard.

With warm regards,

Your sincerely  
  
 (A.K Dogra)

**The Vice-Chancellor  
 Presidency University,  
 86/1 College Street,  
 Kolkata – 700 073, West Bengal**

Encl as:-

1. Copy of CVC circular on Transparency in Tendering System.
2. Copy of CVC circular on Mobilization Advance.
3. Copy of Action Plan for Academic and Administrative Reforms.
4. Copy of Academic Reforms in Universities.
5. Proforma for submitting the re-priorities.

PRESIDENCY UNIVERSITY  
86/1 COLLEGE STREET, KOLKATA 700 073

INCOME AND EXPENDITURE ACCOUNT FOR THE YEAR ENDED 31ST MARCH 2015 (Unaudited)

	SCHEDULE	2014-2015				2013-2014
		UNRESTRICTED FUND		RESTRICTED FUND	TOTAL	TOTAL
		DESIGNATED FUND	GENERAL FUND			
<b>INCOME</b>						
Academic Receipts	12	-	1,32,08,617	-	1,32,08,617	82,42,597
Grants And Donations	13	-	33,99,941	-	33,99,941	40,66,763
Income From Investments	14	16,299	38,52,952	87,40,447	1,26,09,698	82,60,294
Other Incomes	15	14,414	31,86,111	35,94,626	67,95,151	33,49,155
Transfer From Respective Funds To Meet Related Expenditure	16	22,40,744	16,19,71,563	4,15,62,164	20,57,74,471	16,60,51,659
Transfer From Capital Assets Fund/ Deferred Grant To Meet Depreciation			3,01,50,520	2,39,34,932	5,40,85,452	2,34,50,961
<b>TOTAL (A)</b>		<b>22,71,457</b>	<b>21,57,69,704</b>	<b>7,78,32,169</b>	<b>29,58,73,330</b>	<b>21,34,21,429</b>
<b>EXPENDITURE</b>						
Staff Payments And Benefits	17	-	12,42,43,208	6,02,743	12,48,45,951	10,71,19,298
Academic Expenses	18	12,69,716	66,57,536	3,61,05,276	4,40,32,528	3,59,30,428
Administrative And General Expenses	19	9,71,028	2,84,08,434	12,40,465	3,06,19,927	2,41,81,014
Transportation Expenses	20	-	41,05,143	-	41,05,143	35,23,599
Repairs And Maintenance	21	-	51,69,214	36,52,063	88,21,277	49,48,559
Depreciation	6		3,01,94,324	2,39,34,932	5,41,29,256	2,34,56,932
<b>TOTAL (B)</b>		<b>22,40,744</b>	<b>19,87,77,859</b>	<b>6,55,35,479</b>	<b>26,65,54,083</b>	<b>19,91,59,830</b>
<b>BALANCE BEING EXCESS OF INCOME OVER EXPENDITURE (A-B)</b>		<b>30,713</b>	<b>1,69,91,845</b>	<b>1,22,96,690</b>	<b>2,93,19,248</b>	<b>1,42,61,599</b>
<b>SURPLUS CARRIED TO RESPECTIVE FUNDS</b>						
<b>NOTES TO ACCOUNTS</b>	22					

PRESIDENCY UNIVERSITY						
86/1 COLLEGE STREET, KOLKATA 700 073						
INCOME AND EXPENDITURE ACCOUNT FOR THE YEAR ENDED 31ST MARCH 2014						
	SCHEDULE	2013-2014				2012-2013
		UNRESTRICTED FUND		RESTRICTED FUND	TOTAL	TOTAL
		DESIGNATED FUND	GENERAL FUND			
<b>INCOME</b>						
Academic Receipts	12	-	82,42,597	-	82,42,597	65,15,965
Grants And Donations	13	-	40,66,763	-	40,66,763	10,55,958
Income From Investments	14	-	31,67,903	50,92,391	82,60,294	17,44,082
Other Incomes	15	4,573	15,54,202	17,57,980	33,16,755	26,08,492
Transfer From Respective Funds To Meet Related Expenditure	16	6,44,500	13,92,10,799	2,61,96,360	16,60,51,659	8,13,34,615
Transfer From Capital Assets Fund/ Deferred Grant To Meet Depreciation			94,76,385	1,39,74,576	2,34,50,961	1,55,21,985
<b>TOTAL (A)</b>		6,49,073	16,57,18,649	4,70,21,307	21,33,89,029	10,87,81,097
<b>EXPENDITURE</b>						
Staff Payments And Benefits	17	-	10,64,37,718	6,81,580	10,71,19,298	4,03,41,452
Academic Expenses	18	6,44,500	1,12,08,449	2,40,45,079	3,58,98,028	2,39,95,089
Administrative And General Expenses	19	-	2,27,13,595	14,67,419	2,41,81,014	1,55,56,853
Transportation Expenses	20	-	35,23,599	-	35,23,599	18,46,472
Repairs And Maintenance	21	-	48,48,559	1,00,000	49,48,559	27,37,734
Depreciation	6		94,82,356	1,39,74,576	2,34,56,932	1,55,21,985
<b>TOTAL (B)</b>		6,44,500	15,82,14,276	4,02,68,654	19,91,27,430	9,99,99,585
<b>BALANCE BEING EXCESS OF INCOME OVER EXPENDITURE (A-B)</b>		4,573	75,04,373	67,52,653	1,42,61,599	87,81,512
<b>SURPLUS CARRIED TO RESPECTIVE FUNDS</b>						
<b>NOTES TO ACCOUNTS</b>	22					

Date: 16th March, 2015  
Place: Kolkata

For Presidency University

Prithul Chakraborty  
Finance Officer

In terms of our report of even date

For Ghosh & Associates

Chartered Accountants

FRN: 322016E

A.A.Sarkar, Partner

Mem No. 303746





## Memorandum of Understanding

between  
The Chancellor  
Masters and Scholars of the University of Cambridge, UK  
acting through the Centre of South Asian Studies  
and  
Presidency University, Kolkata, India

### 1. PURPOSE

The purpose of this Memorandum of Understanding (MOU) is formally to record the mutual interest of Cambridge and Presidency in promoting and furthering academic links between the two institutions for a period of three (3) years following signature of this MOU.

### 2. PRELIMINARY DISCUSSIONS

The parties have discussed the possibilities for collaboration in the arts, humanities and social sciences, subject to negotiation of the appropriate contractual terms and to the necessary funding being available.

### 3. FUTURE STEPS

If these possibilities for collaboration appear to be feasible after further discussion between the parties and suitable funding sources are identified, it is proposed that negotiations should take place with a view to finalising the terms of such contractual arrangements between such parties as may be necessary and appropriate to put the proposal into effect.

### 4. PUBLIC STATEMENTS

The parties acknowledge the merits of positive publicity but they recognise that neither party should make any press announcement or public statement about the proposals or this MOU which has not been agreed in advance by the other party.

### 5. BRAND PROTECTION

Neither party will use the name, trade name, trademark, logo or other designation of the other party in connection with any products, promotion, advertising, press release, or publicity without the prior written permission of the other party.



**6. EFFECT OF THIS MEMORANDUM**

While the parties wish by this MOU to make clear their support of and enthusiasm for the proposals, with the exception of clauses 4 (Public Statements) and 5 (Brand Protection) and this clause 6, which the parties acknowledge to be legally binding upon them, this MOU is not intended to create any legally binding relationship between the parties. The parties recognise that any agreement or agreements involving the parties which may subsequently be negotiated will, prior to execution, require the express approval of specific bodies and duly authorised officers within Cambridge and Presidency and they acknowledge that at any time in advance of such execution the parties and each of them shall be free to propose arrangements different from those outlined in this MOU or unilaterally to cease any consideration or negotiation contemplated by this MOU without any liability whatsoever to the other party.

**Presidency University**

**University of Cambridge**

Professor Anuradha Lohia  
Vice Chancellor

Date 27/7/15

Professor Joya Chatterji  
Director  
Centre of South Asian Studies

Date 27/7/15



**TRINITY COLLEGE DUBLIN**  
The University of Dublin



**MEMORANDUM OF UNDERSTANDING  
AS BETWEEN  
UNIVERSITY OF DUBLIN, TRINITY COLLEGE DUBLIN  
and  
PRESIDENCY UNIVERISTY, KOLKATA**

**This Memorandum of Understanding is made on the 29<sup>th</sup> day of November 2012**

**BETWEEN** The Provost, Fellows, Foundation Scholars and other the members of the Board of the College of the Holy and Undivided Trinity of Queen Elizabeth near Dublin, having an address at College Green, Dublin 2, Ireland (hereinafter referred to as 'Trinity College Dublin')

**AND** Presidency University, Kolkata, having an address at College Street, Kolkata, West Bengal, India (hereinafter collectively referred to as 'Presidency University')

**WHEREAS:**

Trinity College Dublin, and Presidency University, recognising the value of international cooperation, have agreed to enter into this Memorandum of Understanding regarding academic collaboration ('MOU'). The purpose of this non-binding Memorandum of Understanding (MOU) is to make possible and to institute academic exchange between Trinity College Dublin, and Presidency University, based upon the principles of mutual equality and the reciprocity of benefits.

**Both Parties HEREBY AGREE:**

**A. STAFF PROGRAMME**

Each Party will accept scholars from the other Party. In the absence of any specific agreement to the contrary, all expenses connected with the visit will be the responsibility of the visiting scholar.

Subject to availability, the host Party will provide the normal services for visiting scholars including library and laboratory facilities. The host Party will assist, as far as possible, in arranging accommodation for the visiting scholar, and will assist the visiting scholar in matters of health, language and local custom.

**B. JOINT RESEARCH PROGRAMME**

The two Parties will seek opportunities to cooperate in research. The details of specific research proposals will be determined by the mutual agreement of both universities. The form of cooperation may vary with the goal of each project.

The two Parties agree that, in the event of research collaboration leading to patent rights, copyrights and other intellectual property rights, a further separate written agreement





## Memorandum of Understanding on Academic and Research Cooperation

between  
Tata Medical Center, Kolkata  
and  
Presidency University, Kolkata

This Memorandum of Understanding (MOU) sets for the terms and understanding between the **Presidency University, Kolkata** and the **Tata Medical Center, Kolkata** primarily focusing on the following points:

**Aim : Establish a collaborative joint research and academic program in Cancer within Kolkata**

### Goals

- Create a virtual cancer centre that integrates basic science, clinical and translational research
- Evolve a strategy to strengthen the impact of cancer research in Kolkata, regionally, nationally and internationally
- Develop an interactive, multidisciplinary and stimulating environment for current investigators at both institutions and attract new talents to the Kolkata cluster
- Share current resources and subsequently develop new joint programs to enhance overall research capacity
- Attract joint national and international funding
- Develop an integrated training program for large data analyses with respect to cancer
- Develop joint educational program to promote young potential investigators and foster the development of future leadership in Cancer Research

### Rationale

Biological research, particularly in countries like ours, need to focus on making an impact on healthcare. By next decade, 1% of all cancer patients in the world will be from India. Unless we start innovating in all aspects of cancer care, from diagnosis to therapy, the highly curative strategies being developed in the west will become increasingly impractical and unaffordable. To develop indigenous solutions, we need a close partnership between scientists of different expertise, clinicians, and industry. The Tata Translational Cancer Research Centre (TTCRC), embedded within the Tata Medical Center (TMC), offers such an opportunity. To maximize resources, in equipment, environment as well as personnel development we aim to establish a virtual "Kolkata Cancer Hub" with a partnership between Tata Medical Center and Presidency University.

### Stakeholders

**Tata Medical Center (TMC)** is a dedicated, not for profit, tertiary care cancer centre and the only one of its kind in Eastern India. Though only open for a little over 3 years, the hospital has already moved to expand its facilities. By 2017-8, around 450 in-patient beds will cater to approximately 50,000 new cases of cancer

per year. The TCS-DBT Tata Translational Cancer Research Centre (TTCRC) has been embedded into the concept of TMC right from the start. Its remit is to develop tools and technology designed to make modern cancer care affordable and improve outcomes of patients in eastern India. TTCRC is a joint partnership with TMC, Department of Biotechnology (DBT) and Tata Consultancy Services (TCS).

**Presidency University, Kolkata** was one of the first institutes of Western-type higher education in Asia, established in 1817. Over the last hundred years and more, Presidency College, under Calcutta University has remained Bengal's pre-eminent centre of higher learning. The formal establishment of Presidency University in July 2010 allows it to refashion its venerable traditions and continuing strengths into a leading institution of the future. The '**Department of Biological Sciences (DBS)**' is the youngest department in almost 200 year's history of this institution. This newly formed department has been restructured by combining three century old departments - 'Botany', 'Physiology' and 'Zoology' with three newer departments - 'Biochemistry', 'Biotechnology', 'Molecular Biology and Genetics' in an aim to modernize curriculum as well as research milieu. Innovation in medicine, and in particular cancer requires a systems approach. Presidency University brings strengths in Chemistry, Physics, Mathematics, Statistics and Sociology to this partnership to facilitate the development of "Systems Medicine".

#### Action Plan to Develop the Hub


1. Joint Research Meeting between members of faculty once every 2 months.
2. Presidency Research Leads (PRL), who develop collaborative approaches within this cluster, will be given honorary research status at TTCRC. This will allow access to all facilities available to TTCRC staff and direct collaborative opportunities with clinicians.
3. PRL with honorary status may apply to the TMC IRB for direct access to biobank samples
4. For PRL, costs of procurement of samples or use of equipment will be the same as being charged to TMC/TTCRC staff (cost-only model)
5. PRL may be asked to teach or talk at courses organised by TMC/TTCRC staff
6. TMC/TTCRC staff, as appropriate, will be given adjunct faculty positions at Presidency University. This will allow access to all facilities available to PRL staff and direct collaborative opportunities.
7. TMC/TTCRC staff with adjunct positions may be required to teach or talk at courses organised at Presidency
8. Priority will be given to develop a joint PhD programme, with students registered under Presidency University and supervised by both PRL and TMC/TTCRC staff.
9. A joint grant application, with other partners, will be made to the Department of Biotechnology for the development of joint facilities to strengthen this cluster over the next 5-years.

On behalf of  
Presidency University, Kolkata

  
Anuradha Lohia, PhD  
Vice Chancellor

Date: 6<sup>th</sup> August 2015

On behalf of  
Tata Medical Center, Kolkata

  
Mammen Chandy, MBBS, MD  
Director

Date: 6<sup>th</sup> August 2015



## Memorandum of Understanding on Academic and Research Cooperation

between  
The School of Oriental and African Studies  
University of London, UK  
and  
Presidency University, Kolkata, India

SOAS (The School of Oriental and African Studies), University of London, hereafter referred to as SOAS, and Presidency University, hereinafter referred to as PU, considering their common interest in promoting the mutual cooperation in the area of education and research, both parties, therefore, wish to expand the basis for friendship and cooperative educational exchange and have set forth the following Memorandum of Understanding (MOU)

### Article I: Purpose

The purpose of this MOU is to develop academic and educational cooperation on the basis of equality and reciprocity and to promote relations and mutual understanding between both universities.

### Article II: Scope of the Cooperation

Both parties undertake to promote and develop academic cooperation as follows:

- Exchange of academic and administrative staff and students.
- Cooperation in research and the presentation of its results.
- Exchange of academic materials, publications and other scientific information.
- Collaboration and exchange of resources and staff in the area of library and other auxiliary services.
- Other educational and academic exchanges to which both universities agree.

### Article III: Financial Arrangement

- Both parties agree that all specific arrangements and plans for activities are to be negotiated and are dependent on the availability of funds.
- Both parties agree to seek financial support from national and international organisations for the cooperative activities to be undertaken as stated under the terms of this MOU.

### Article IV: Agreement of Implementation

The details of this agreement are to be decided by further consultation between the two institutions.



**Article V: Intellectual Property Rights and Publication**

- The parties will share all data and research findings, patent rights, copyrights and other intellectual property rights to any discoveries, inventions and products resulting from this MOU.
- Both parties must give written approval for the utilisation and publication of the data and research findings.
- Detailed management of the Intellectual Property Rights and Publication shall be defined for each activity agreed in Article IV.

**Article VI: Settlement of Differences**

The differing viewpoints and interpretations of this MOU shall be settled amicably by mutual consultation or negotiation.

**Article VII: Amendments, Duration and Termination**

- Amendments to this MOU can only be made by mutual consent of the two parties.
- This MOU shall take effect from the date of its signing and be valid for the duration of five (5) years from that date. It will be reviewed by both parties no later than six (6) months before the end of the MOU.
- This MOU may be terminated by either party by written notice at least six (6) months in advance. Such notice of termination will not interfere with cooperative programmes currently under way. Such programmes will be allowed to continue until their conclusion.

This MOU is prepared in English and two (2) original copies of this MOU have been produced. Both copies are authentic. As witness to their consent to this MOU, the appropriate authorities hereunto provide their signatures:

Presidency University

SOAS, University of London

Professor Anuradha Lohia  
Vice Chancellor

Laura Gibbs  
Director

Date

27/7/15

Date

27/7/2015



## Memorandum of Understanding

between  
University of East Anglia, Norwich, UK  
and  
Presidency University, Kolkata, India

### 1. Preamble

- 1.1 This Memorandum of Understanding (MOU) is entered into by and between Presidency University, hereafter PU, with a registered address at 86/1 College Street, Kolkata 700073, India, and the University of East Anglia, hereafter UEA, with a registered address at Norwich Research Park, Norwich, Norfolk NR4 7TJ, United Kingdom. PU and UEA are referred to collectively, as 'Parties' or individually as 'Party'.

### 2. Purpose

- 2.1 The Parties recognise the benefits to be derived from collaboration, cooperation and interaction for the further promotion and understanding of the creative and the critical aspects of literary studies (hereafter collectively referred to as the 'Field').
- 2.2 The purpose of this MOU is to define the areas for academic research and creative writing in which the Parties desire to work together for their mutual benefit.
- 2.3 The Parties wish to benefit from each other's practices and procedures of work and support collaboration amongst their researchers, academics and students.

### 3. Scope

- 3.1 The University of East Anglia proposes to set up a centre at Presidency University. The proposed name of the centre is University of East Anglia India Centre for the Creative and the Critical at Presidency University, hereafter UEAICCCPU.
- 3.2 UEAICCCPU will maintain an identity distinct from Presidency University or any of its departments or divisions.
- 3.3 It is hoped that in the long term UEAICCCPU will host public conversations, panel discussions and symposiums to do with the place of the literary in the world today. To this end, it will extend conventional pedagogy and periodically bring together a mix of writers, academics, poets and translators not only from Kolkata but from India and abroad.
- 3.4 The long-term aims of UEAICCCPU will include inviting distinguished visitors to the city and to enable the more interesting thinkers on the 'creative and the critical' at Presidency and Kolkata to travel to the University of East Anglia.
- 3.5 All proposed visits must be approved in a signed written agreement, which specifically sets forth all of the requirements, commitments and obligations of the visiting Party and the hosting Party, including any issues regarding visits addressed in this MOU.



- 3.6 Both Parties may freely use any results obtained through projects, events and visits obtained through the activities of the UEAICCCPU for research purposes. Any such use by either Party must make explicit reference to the report as well as to both Parties involved in this MOU.
- 3.7 The visiting Party will comply with all of the requirements, rules, regulations and operational practices of the hosting Party.

#### 4. Terms

- 4.1 The terms of cooperation for each specific activity implemented under this MOU shall be mutually discussed and agreed upon in writing by both Parties prior to the initiation.
- 4.2 New activities and programmes outside the scope outlined above shall be the subject of separate agreements.

#### 5. Duration

- 5.1 This MOU becomes effective from the day the representatives of both institutions affix their signatures below and will continue for an initial period of three (3) years, whereupon it shall be reviewed and may be extended by the mutual written agreement of both institutions.
- 5.2 This MOU may be revised through the mutual agreement of both institutions and may be terminated by either Party upon giving six (6) months' written notice signed by the presiding officer of the notifying Party.

#### 6. Conditions for Use of Names of Parties and IPR Issues

- 6.1 Any use of the names 'Presidency University' or 'University of East Anglia' including any of its constituent schools, departments, programmes or logos, relating in any way to the activities described in this MOU, shall be subject to prior written approval.
- 6.2 Should issues of intellectual property rights arise pertaining to intellectual property developed through collaborations under this MOU, their treatment will be determined between the Parties through mutual discussion and written agreements in each individual instance.

#### 7. Administration

- 7.1 The administration of this MOU will be the responsibility of the Registrar, Presidency University, and the relevant officer(s) at the University of East Anglia.
- 7.2 The UEAICCCPU may designate any officer(s) or member(s) of UEA faculty with the responsibility of conducting the programmes covered by the Purpose and Scope outlined in the MOU. The Vice Chancellor, PU, may similarly designate any PU officer(s) or member(s) of PU faculty to liaise and coordinate programmes with UEAICCCPU. In every instance, either Party will notify the other of such decisions.



**8. Costs**

- 8.1 Each Party will be responsible for costs as agreed upon in writing in each instance of a project or event or a visit within the purview of this MOU.
- 8.2 Where possible and appropriate, the Parties may also seek funding for collaborations from other funding agencies.

**9. Confidentiality**

- 9.1 The parties agree that there is no intention to share any confidential or proprietary information in any collaboration under this MOU.
- 9.2 It is also agreed that no information will be exchanged or disseminated under any collaborations pursuant to this MOU that is export controlled pursuant to the export control laws of the governments of India and the United Kingdom.

In witness to this agreement, the following individuals append their signatures:

**Presidency University**

**University of East Anglia**

Professor Anuradha Lohia  
Vice Chancellor

Date

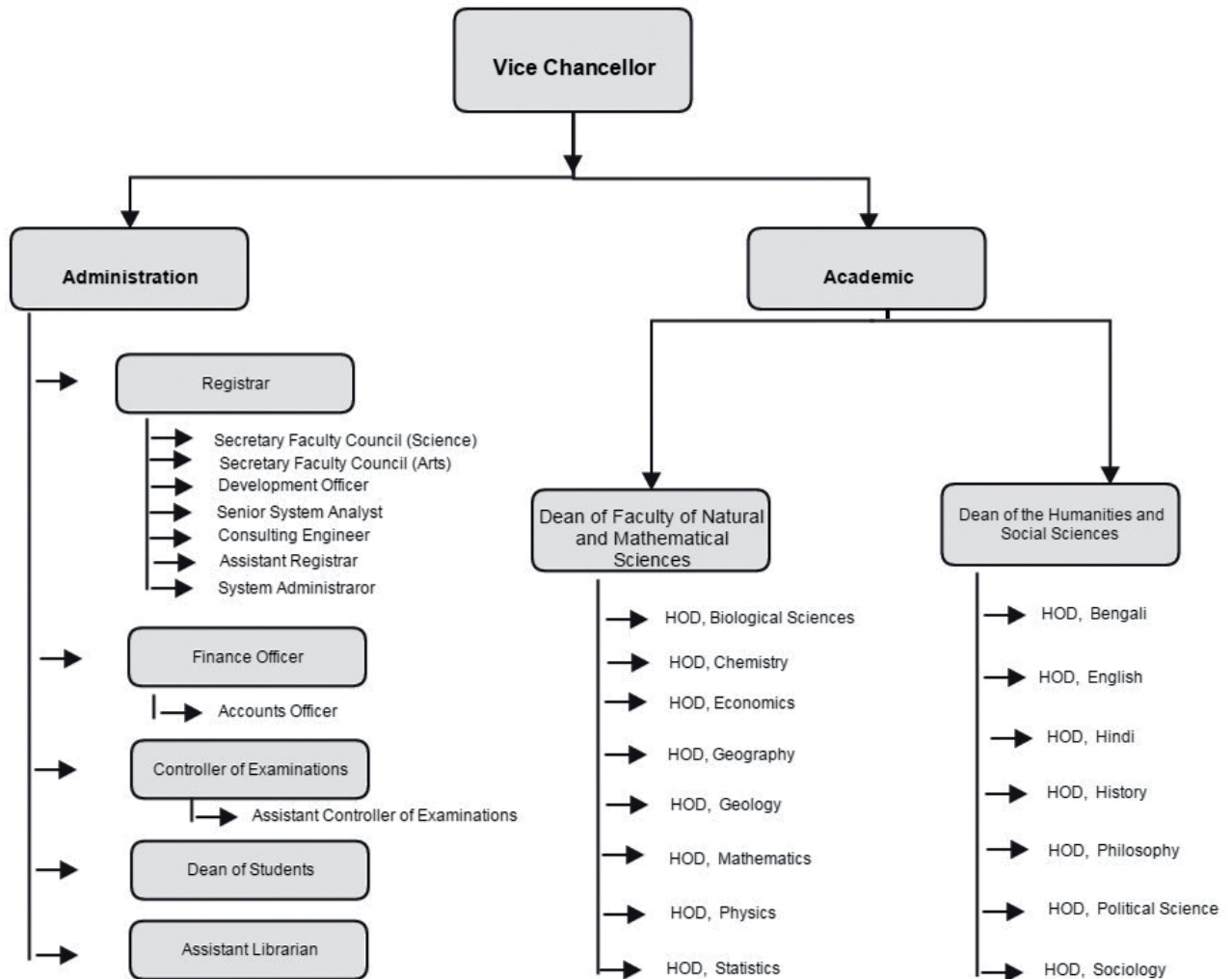
27/7/15

Professor Yvonne Tasker  
Dean of Arts

Date

27<sup>th</sup> July 2015

Organization Structure of Presidency University





## GLOSSARY

CAS: Centre for Advanced Studies

EHH: Eden Hindu Hostel

PUCL: Presidency University Cricket League

PUFL: Presidency University Football League

PUCASH: Presidency University Committee Against Sexual Harassment

RAC: Research Advisory Committee











**Presidency  
University**

86/1 College Street  
Kolkata 700073

P +91 33 2241 2738

F +91 33 2257 2444



# SELF-STUDY REPORT



PRESIDENCY UNIVERSITY  
KOLKATA

**For Submission to the National Assessment  
and Accreditation Council**



**Presidency University  
Kolkata  
2016  
([www.presiuniv.ac.in](http://www.presiuniv.ac.in))**

**Volume-2  
Departmental Inputs  
Faculty of Humanities and Social Sciences**





# **SELF-STUDY REPORT**

**For Submission to the National Assessment and  
Accreditation Council**



**Presidency University  
Kolkata  
2016**

**([www.presiuniv.ac.in](http://www.presiuniv.ac.in))**

**(Volume-2)  
(Departmental Inputs  
Faculty of Humanities and Social Sciences)**



**Table of Contents**  
**Volume-2**  
**Departmental Inputs**  
**Faculty of Humanities and Social Sciences**

1.	Bengali	1
2.	English	31
3.	Hindi	60
4.	History	77
5.	Philosophy	111
6.	Political Science	125
7.	Sociology	149
8.	Annexure	169



## Evaluative Report: Department of Bengali

1. **Name of the Department** : Bengali
2. **Year of establishment** : 1945
3. **Is the Department part of a School/Faculty of the university?** Faculty of Humanities and Social Sciences
4. **Names of programmes offered (UG, PG, MPhil, PhD, Integrated Masters; Integrated PhD, DSc, DLitt, etc.):**
  - A. BA (Hons) in Bengali
  - B. MA in Bengali
  - C. PhD
5. **Interdisciplinary programmes and departments involved : Interdisciplinary programmes and departments involved** : No
6. **Courses in collaboration with other universities, industries, foreign institutions, etc.**

Students and teachers collaborate with researchers from National School of Drama, Nandan Film Archive, Rupkala Kendra, Bangiya Sahitya Academy, Bangiya Sahitya Parishad, Kala Bhavan, Visva-Bharati, and Bankim Bhavan Gaveshana Kendra for course works on Theatre and Film studies.
7. **Details of programmes discontinued, if any, with reasons** : NA
8. **Examination System** : Annual/Semester/Trimester/Choice Based Credit System : Semester System with CBSD
9. **Participation of the department in the courses offered by other departments** : Shared parts of the course on 'Digital Humanities' offered by the Department of English in the even semester.
10. **Number of teaching posts sanctioned, filled and actual (Professors/Associate Professors/Asst. Professors/others)**

Designation	Sanctioned	Filled	Actual (including CAS & MPS)
Professor	1	0	0
Associate Professors	Nil	Nil	Nil
Asst. Professors	12	11	11
Others	NIL	NIL	NIL

11. **Faculty profile with name, qualification, designation, area of specialization, experience and research under guidance**

Sl no.	Name	Qualification	Designation	Specialization	No. of Years of Experience	No. of PhD/ MPhil Students guided for the last 4 years
1.	Dr. Sandip Kumar Mandal	Ph.D	Assistant Professor (HOD)	Medieval Bengali Literature	14	

Sl no.	Name	Qualification	Designation	Specialization	No. of Years of Experience	No. of PhD/ MPhil Students guided for the last 4 years
2.	Dr. Swarupa Bandyopadhyay	PhD	Assistant Professor	Bengal and Bengali Literature in 19th Century	18	
3.	Dr. Mafiz Uddin	PhD	Assistant Professor	Comparative Literature	13	
4.	Dr. Khokon Kumar Bag	PhD	Assistant Professor	Medieval Bengali Literature	13	
5.	Dr. Moley Rakshit	PhD	Assistant Professor	Drama	10	
6.	Dr. Uttam Kumar Biswas	PhD	Assistant Professor	Medieval Bengali Literature	10	
7.	Dr. Shaon Nandi	PhD	Assistant Professor	Modern Bengali Poetry	8	
8.	Dr. Mostak Ahamed	PhD	Assistant Professor	Kathasahitya	6	
9.	Devarati Jana	MPhil	Assistant Professor	Linguistics	4	2 (MPhil)
10.	Dr. Ritam Mukherjee	PhD	Assistant Professor	Comparative Literature.	2	
11.	Santi Saren	MA	Assistant Professor	Linguistics	2	

12. List of senior Visiting Fellows, adjunct faculty, emeritus professor : None

13. Percentage of classes taken by temporary faculty – programme-wise information : No temporary faculty at present

14. Programme-Wise Student Teacher Ratio : 01 : 15 (Teacher-Student)

15. Number of academic support staff (technical) and administrative staff: sanctioned, filled and actual :

Sanctioned : 3

Filled : 3 (Contractual Basis)

16. Research thrust areas as recognized by major funding agencies :

- Medieval Bengali Literature
- Fiction
- Drama
- Modern Poetry

**17. Number of faculty with ongoing projects from a) national b) international funding agencies and c) Total grants received. Give the names of the funding agencies, project title and grants received project-wise.**

- a. Project from UGC: - One of value, Rs 760000 (to receive)  
 b. University Research Fellow: 03: Fellowship and contingency @Rs 10000 per annum

Sl. No	Year of Initiation	Funding agency	PI	Title	Fund Sanctioned	First instalment to receive
1	2015	UGC	Dr. Khokan Kumar Bag	Madhyayuger Bangla sahitye Analochita O Amudrita Hara- Gouri Katha : Kabi O Kabya Parichay	760000	460000

**18. Inter-institutional collaborative projects and associated grants received**

- a) National Collaboration : NIL  
 b) International Collaboration : NIL

**19. Departmental projects funded by DST-FIST; UGC-SAP/CAS, DPE; DBT, ICSSR, AICTE, etc.; total grants received : NIL**

**20. Research facility / centre with**

For research work on Theatre, Film, etc.the teachers have a regular linkage with National School of Drama, Nandan Film Archive, Bangiya Sahitya Parishad, Kala Bhavan, Visva-Bharati, Sangeet Natak Academy.

**21. Special research laboratories sponsored by / created by industry or corporate bodies : NIL**

**22. Publications: (Synopsis and Numbers are given below, Details are given in Annexure 4)**

Publications		2012	2013	2014	2015	Total
Paper (peer-reviewed)	National	45	54	37	32	168
	International	02	01	00	01	04
Books & Monographs	National	06	05	04	06	21
	International	00	00	00	00	00
Articles in magazine/ Newspaper		10	03	01	00	14

- Number of papers published in peer reviewed journals (national / international) : 142
  - Popular Article published in News paper : 14
  - Conference Publications : 04
- Monographs : 0
- Chapters in Books : 26
- Books with ISBN with details of publishers : 21
- Number listed in International DataBase (For e.g. Web of Science, Scopus, Humanities International Complete, Dare DataBase - International Social Sciences Directory, EBSCO host, etc.)
- Citation Index – range / average

## Presidency University

- SNIP
- SJR
- Impact Factor – range / average
- h-index

23. Details of patents and income generated : NIL

24. Areas of consultancy and income generated : NIL

25. Faculty selected nationally / internationally to visit other laboratories / institutions industries in India and abroad :

- One Faculty Member Dr. Mostak Ahamed went to Rajshahi University to deliver a lecture on Literature.

26. Faculty serving in

- a) National committees
- b) International committees
- c) Editorial Boards
- d) any other (please specify)

Dr. Khokan Kumar Bag

c. Editorial Boards

- i. Bag, Khokan Kumar (Editor) ANTARMUKH, A Bengali Research Journal, ISSN 2249-3751 [Print]. Reg. No. WBBEN/2011/46276
- ii. Bag, Khokan Kumar, Editorial Board Member, IJHSSS (International Journal of Humanities and Social Science Studies ) ISSN 2349-6711 (Print) , ISSN 2349-6959 (Online)

Moloy Rakshit,

c. Editorial Boards

- i. Rakshit M. Assistant Editor of PARAMPARA, A Quarterly Magazine of Bengali literature & Culture, ISSN No 2320-6497, Since Vol 1, 2012
- ii. Rakshit M. Assistant Editor of BANGAVIDYA, International Journal of Bengal Studies, ISSN No 2277-7717, Since Vol. : II 2011-2012
- iii. Rakshit M. Member of the Editorial and Publication Board of Presidency College Alumni Association AUTUMN ANNUAL Since 2014-2015

d. any other (please specify)

Dr. Moloy Rakshit: Member of a Theatre Group: SPECTATORS and working as a Sub-Editor of an International Theatre Magazine ANTARANGA, Org. by the Spectators, from 2015.

Devarati Jana: Member of Assam Sahitya Sabha (since 2011).

Shaon Nandi

c. Editorial Boards



- i. Editor : KAGAJ KALAM EBONG and KABITA ABAHAMAN

Ritam Mukherjee

- c. Editorial Boards

Member of Editorial Board : SAHITYA BISARI & PURBASHA EKHON (2 Little Magazines since 2012)

**27. Faculty recharging strategies (UGC, ASC, Refresher/orientation programmes, workshops, training programmes and similar programmes).**

**Ahamed, Mostak**

1. Participated in the UGC sponsored Orientation programme held from July 15 to August 12, 2014 organised by Academic Staff College, University of Calcutta
2. Participated in the UGC sponsored Refresher Course held from March 30 to April 22, 2015 organised by Academic Staff College, University of Calcutta

**Bag, Khokan Kumar**

1. Lecture held from Nov. 17, 2014 to Nov. 27, 2014 in ASC, Burdwan University. Participated in the UGC sponsored Orientation programme held from Dec.21, 2005 to Jan. 17, 2006 in ASC, Burdwan University.
2. Participated in the UGC sponsored Refresher course in Computer Application held from Dec.17, 2011 to Jan. 6, 2012 in ASC, Burdwan University.
3. Participated in the UGC sponsored Refresher course in Comparative Literature.

**Nandi, Shaon**

1. Participated in UGC sponsored Refresher Course held from 29.11.2010 to 20.12.2010 organised by Academic Staff College , Jadavpur University
2. Participated in UGC sponsored Orientation programme held from 31.01.2011 to 01.03.2011 organised by Academic Staff College , University of Calcutta

**Mandal, Sandip Kumar**

1. Participated in UGC sponsored Refresher Course held on 02th Dec. –28nd Dec. 2011 organized by Academic Staff College University of Calcutta.

**Rakshit, Moloy**

1. Participated in UGC sponsored 61st Orientation programme held on 26th Dec. –22nd Jan.2007 organized by Academic Staff College University of Burdwan.
2. Participated in Refresher Course in Swadhinata-Uttar Bangalir held on 29th Nov—20th Dec. 2010 organized by Academic Staff College Jadavpur University
3. Participated in 102nd Orientation programme held on 2nd Sept. to 30th Sept. 2013 organized by Academic Staff College University of Calcutta

**Jana, Devarati**

1. Participated in UGC sponsored 47th Orientation programme held on 25th Nov. to 21st Dec. 2013, Organized by Academic Staff College Jadavpur University.

## Presidency University

### 28. Student projects (provide List in annexure)

- percentage of students who have done in-house projects including inter-departmental projects

#### On going departmental project by the students – 2

- Subhankar Banerjee working on Ancient Bengali Literature
- Debargha Mukhopadhyay working on Bengali Drama

- percentage of students doing projects in collaboration with other universities / industry / institute

- Ratul Ghosh worked as a Project Associate in English Language Teaching Project under American EmbASSy in 2011-12
- Jinia Roy and Ratul Chakraborty worked as a Translator in Discovery Channel in 2012

### 29. Awards / recognitions received at the national and international level by

Faculty : None

#### Doctoral / post doctoral fellows :

- Malay Bhattacharyya has been awarded the “Shakti Chattopadhyay Smarak Puraskar 2014” by Paschim Banga Bangla Academy, Department of Information and Cultural Affairs, Govt. of West Bengal for his Collection of Poetry : ‘Amader Udgirano Maapaa’

Students : NIL

### 30. Seminars/ Conferences/Workshops organized and the source of funding (national /international) with details of outstanding participants, if any. (provide List in annexure)

- A UGC Sponsored State Level Two-day Seminar on Novelist Manik Bandopadhyay was held on 6th-7th April 2010.

### 31. Code of ethics for research followed by the departments :

We follow the same ethics as practised in Presidency University

### 32. Student profile programme-wise:

Name of the programme	Applications received	Selected		Pass percentage	
		Male	Female	Male	Female
(refer to question no. 4)					
UG	357	12	22	35%	65%
PG	325	12	23	33%	67%
Ph.D	62	9	2	61.3%	38.7%

### 33. Diversity of students

Name of the programme (refer to question no. 4)	% of students from the same university	% of students from other universities within the State	% of students from universities outside the State	% of students from other countries
UG	NA	100%	0%	0%
PG	60%	40%	0%	0%
Ph.D	36%	64%	0%	0%

**34. How many students have cleared Civil Services and Defense Services examinations, NET, SET, GATE and other competitive examinations? Give details category-wise.**

2011 : NET- LS/JRF- 11  
 2012 : NET - LS/ JRF-06  
 2013 : NET/SET- 02  
 2014 : NET/SET- 04

**35. Student progression**

Student progression	Percentage against enrolled
UG to PG	98%
PG to MPhil	
MPhil to PhD	5%
PhD to post doc	N/A
Employed	15% (Campus); 30% (other than campus selection)

**36. Diversity of staff**

Percentage of faculty who are graduates	
of the same university (Presidency College)	25%
from other universities within the State	75%
from universities from other States from	NIL
universities outside the country	NIL

**37. Number of faculty who were awarded MPhil, PhD, D.Sc. and D.Litt. during the assessment period :**

M Phil. : 1  
 Ph. D : 4

**38. Present details of departmental infrastructural facilities with regard to**

a) Library : Yes  
 Total Number of books & Journals : 1009  
 Total Almira regarding Library : 6  
 b) Internet facilities for staff and students : Yes  
 Departmental Computer room : Available -One Room  
 Total Number of Computer : 4  
 Scanner : 1  
 Scanner with Printer : 1  
 Printer : 2  
 LCD Projector : 2

## Presidency University

Xerox Machine	:	1
Tape/Voice Recorder	:	1
Laptop/Computer point	:	20
c) Total number of Classrooms	:	5
d) Class rooms with ICT facility	:	4
e) Students' laboratories	:	NA
f) Research laboratories	:	NA

### 39. List of doctoral, post-doctoral students and Research Associates

a) from the host institution/university	:	Doctoral - 3
i. Malay Bhattacharyya		
ii. Soumik Ghosh		
iii. Aditi Banerjee		
b) from other institutions/universities	:	8
i. Anandamay Bhattacharyay		
ii. Pratap Bapari		
iii. Debasis Mandal		
iv. Subhadip Sarkar		
v. Baishakhi Kundu		
vi. Suman Samaddar		
vii. Swarup halder		
viii. Tapan Panda		

### 40. Number of postgraduate students getting financial assistance from the university.

1. Students AID/Free Studentship	:	15
2. Research Scholar(URF)	:	03

### 41. Was any need assessment exercise undertaken before the development of new programme (s) ? If so, highlight the methodology.

The syllabus has been reviewed in 2011 and 2013. Series of workshops and meetings with external experts and Board of Studies were arranged before formulation and finalization of the syllabus.

### 42. Does the department obtain feedback form : Yes

#### a. Faculty on curriculum as well as teaching-learning-evaluation? If yes, how does the department utilize the feedback?

- Teachers of the department constantly engage themselves in discussion for the improvement of teaching-learning and curriculum. Former teachers also express their opinions on the syllabus and teaching-

learning methods. The opinions are collectively discussed in the Board of studies for recommendations to the Faculty Council.

**b. Students on staff, curriculum and teaching-learning-evaluation and how does the department utilize the feedback?**

Presidency University centrally obtains feedback for every course at the end of the final semester in each year. The feedbacks are discussed in the meetings of the HoDs for corrective measures.

**c. Alumni and employers on the programmes offered and how does the department utilize the feedback?**

- Alumni and employer interact with the students and faculty through seminars and invited talks. Valuable suggestions offered by the alumni and employers are taken into consideration at the time syllabus revision.

**43. List the distinguished alumni of the department (maximum 10)**

1. Sankha Ghosh, (Famous Poet, Professor and National Award winner)
2. Alope Ranjan Dasgupta (Famous Poet, Translator & Professor)
3. Sisir Kumar Das, (Renowned Professor and Theoretician)
4. Ujjwal Kumar Majumder (Famous Professor and Critic)
5. Shankari Prasad Basu (Renowned Professor and Researcher)
6. Manas Majumdar (Famous Professor & Folklorist)
7. Buddhadeb Bhattacharyya (Former Chief Minister, WB and Translator)
8. Harsha Dutta (Famous Novelist)
9. Bratya Basu (Famous Dramatist, actor and Cabinet Minister of WB)
10. Tapobrata Ghosh (Renowned Professor and Theoretician)

**44. Give details of student enrichment programmes (special lectures / workshops / seminar) involving external experts.**

Department of Bengali has arranged more than 15 (Fifteen) programmes from 2012 to December 2015. Most of the programmes were related to student enrichment. There were 10 Special seminars on : `Special Lecture,; Vaishnava Cult in India` (02/01/12), `Seminar cum Workshop, International Mother Day programme` ( 02/02/12), `150 Birth Anniversary of Swami Vivekananda` (12/01/2012), `Amar Ekushe : International Mother Language Day` 21/01/13), Raktakarabi : Translation in Rajvanshi Language and Reading-acting(`08/13), `Seminar on Derozio and Derozian Culture`, ` Workshop on Theatre : Stage and Light at Bijon Theatre, Kolkata`, `Lalan : Manche O Lokayate`, `Paper presentation by the Students, Sub : Bangla Theatre`, `Ekaler Bangla Kobitar Vasha`, Bangla gadya O Peary Chand Mitra`, `Natyabibhay Manchabibhas`, `A series of Lecture, An Interdisciplinary Lecture programme, Sub: Literature, Belief and Esthetics by Prof, Swapan Chakraborty, Distinguished Chair Professor PU`, `Two day Special Lecture, sub : Bengali Traditional Jatra by Prabhat Kumar Das`.

**45. List the teaching methods adopted by the faculty for different programmes.**

1. Group Discussion and Group writing.
2. Syllabus oriented paper presentation by the Students.
3. Oral Examination Test ---as Internal Examinations.

## **Presidency University**

4. Mock Examination and Script-evaluation by the Students.
5. Audio-Visual method -- Internet media, Social Media.
6. Used LCD Projector and follow presentation method.
7. In case of teaching Theatre use of stage.
8. Educational Tour

### **46. How does the department ensure that programme objectives are constantly met and learning outcomes are monitored?**

1. Teacher-Students Meeting (One/Two times each Month)
2. Internal Examination throughout the Semester.
3. Fieldwork Based study.
4. Interaction between students & teachers inside and outside of the Classroom.
5. Use of ICT in the class room.
6. Seminar/Debate according to academic necessity.

### **47. Highlight the participation of students and faculty in extension activities**

- Students of Bengali Department take part in various extra-curricular activities like quiz, deBates and essay writing competitions. Many of them are members of the University Choir
- Department of Bengali also organises a number of cultural programmes, like the ‘Agamani’ (welcoming the autumn), ‘Basantotsav’(spring festival).
- Sportsman spirit is something which is highly nurtured in this department. Students are always indulged to participate in Presidency University Cricket League, Presidency University Football League and other sports activities organised by the students union council and the university authority.
- Presidency University Students’ Union Council organises a number of cultural programmes through their various platforms. A drama festival ‘Natyotsav is organised every year, freshers and cultural fest ‘Milieu’, seminars on film studies, gender studies, cultural studies are organised regularly. Students from the Department of Bengali participate actively in these programmes with immense enthusiasm.
- Students of Department of Bengali actively participate in fund raising to help victims of natural disasters relief fund fe.g., recent earthquake in Nepal, floods in the plains of Bengal.
- Students are also active members of the NSS programme of the university

### **48. Give details of “beyond syllabus scholarly activities” of the department.**

The teachers of the department are engaged in editorial and review work for a number of scholarly and popular publications. Besides this, they are also engaged in organizing and participating seminars and conferences. An illustrative list of seminar activities are as follows:

- The Department of Bengali organised a seminar on the 150th birth anniversary of Swami Vivekananda where a talk was delivered by Swami Smarananandaji on 12th January, 2012.
- A seminar, ‘Lalan: Manche O Lokayate’, was organised on 17th April, 2014 where the speakers were Prof. Sudhir Chakraborty and Prof Sudipto Chatterjee.

- A seminar entitled, 'Natyabibhay Manchabibhas', was organised by the department where eminent theatre personality Bibhas Chakraborty was felicitated. This was followed by lecture by Bibhas Chakraborty and a lecture by Presidency University's Kabiguru Rabindranath Tagore Chair Professor, Swapan Chakraborty and Mr. Shantanu Das, scholar from ISI.
- On 13th February 2015, a departmental seminar was organised by the department, namely 'Ekaler Bangla Kobitar Bhasha', which was chaired by the Vidyasagar Chair Professor of Rabindra Bharati University, Dr. Himabanta Bandyopadhyay. The other illustrious speakers were renowned Bengali poets Shri Pinaki Thakur and Shri Binayak Bandyopadhyay.
- Students of the Bengali Department too have participated in a number of inter-college academic seminars organised by many prestigious institutions like Belur Vidyamandir, Jadavpur University, Rabindra Bharati University, Rabindra Mahavidyalaya, Sri Shikshayatan College etc.
- A wall magazine, namely, BIHAAN, gets published regularly by the students and scholars of the Bengali Department.

**49. State whether the programme/ department is accredited/ graded by other agencies? If yes, give details.**

NA

**50. Briefly highlight the contributions of the department in generating new knowledge, Basic or applied.**

- a. Literature-Based Socio-Political Cultural Studies
- b. Interdisciplinary research on Literature
- c. Field Based Language research
  1. The department of Bengali teaches its students to first thoroughly engage with their primary texts, so as to assist them in finding their own voices for establishing independent and innovative interpretations of the literature that they are studying.
  2. The Bengali Department fosters an environment of mutual respect, self-belief, tolerance and communal harmony, so as to create a healthy academic ambience, free from fear and negativity. The faculty in the department work hard in trying to teach by example and create an academic culture that is imbued with a sense of mutuality, integrity and a respectful camaraderie. Students are taught to be stakeholders in their education and take ownership of their learning. Ethical responsibility and a social consciousness is what drives both the curriculum and the pedagogy of this department. The ultimate goal of the department is not simply to produce brilliant scholars, but also to produce ethical citizens of this nation.
  3. The Department of Bengali encourages students to approach their syllabus through a multidisciplinary theoretical and critical method. The department believes that this interdisciplinary approach to pedagogy and instruction is what broadens students vision and makes their knowledge multi-faceted.
  4. Gender sensitization is at the very core of the Bengali Departments pedagogical and social commitment. Both faculty and students are constantly reminded of this in the kind of curriculum the department has adopted and in the socio-philosophical approach that the department embraces. Both faculty and students have participated and continue to participate in research on issues of gender equity in their literary study.
  5. Department of Bengali regularly arranges cultural events alongside academic seminars and conferences that invite participation of all its students, teachers, staff and often encourages the involvement of students from other departments and invited guests from outside Presidency University. The reason for this is because the Department of Bengali believes that literature can only be studied and appreciated in a community setting and where there is a generosity of spirit and a sense of harmony between different a cross-section of the society.

**51. Weaknesses and Challenges (SWOC) of the department.**

1. The sole post of Professor is yet to be filled up. There is also scarcity of permanent and trained non-teaching staff.
2. The Department does not have sufficiently big Lecture theatre and separate office for teachers, research fellows.

● **Strengths and Opportunities of our Department :**

1. Main strength is the brilliant pool of students, dedicated teachers, and supportive staff.
2. Another Strength of Department is that we have teachers from six different specialization Backgrounds, i.e. Medieval Bengali Literature (3 teachers), Poetry (1 teacher), Prose fiction (2 teachers), Drama (1 teacher), Linguistics (2 teachers), Comparative Literature (2 teachers).
3. Departmental seminar library has more than thousand books, academic journals, research papers and electronic dataBase. For our students and teachers this library runs parallel to the central library of our university.
4. Thes FRPDF fund which really helps to produce quality research work and outreach.

**52. Future plans of the department.**

1. Department is planning to start M.Phil course.
2. To build a comparatively bigger Seminar Library which will meet up the needs of all the Scholars, Students and Teachers is included in Department's future plan.
3. Plan to introduce three new special papers as early as possible, i.e., TAGORE LITERATURE, COMPARATIVE LITERATURE and LINGUISTICS.
4. Department is planning to establish a School for Subaltern Literature, and an Archive of rare theatre documents.

Department looks forward to collaborate with the Department of Bengali Literature of the Dhaka University.



**ANNEXURE: 01**

**(List of Research Projects in Last four Years)**

Sl. No	Year of Initiation	Year of Completion	Funding agency	PI	Title	Fund Sanctioned	Fund Received (for completed)	Completed/ ongoing
1	2009	2011	UGC	Dr. Khokan Kumar Bag	Madhyyuger Bangla sahitye Shiv.katha : Upekshita Manusher Marmabani	142000	142000	Completed
2	2015	continue	UGC	Dr. Khokan Kumar Bag	Madhyayuger Bangla sahitye Analochita O Amudrita Hara-Gouri Katha : Kabi O Kabya Parichay	760000	460000	Ongoing
3	2012	2013	UGC	Dr. Sandip Kumar Mandal	Mangalkaby : Adhunikata O Punarman	102000	102000	Completed
	TOTAL					1004000	704000	

**ANNEXURE: 02**

**(List of Seminars and Conferences Organized in last three years)**

**2012**

- 02/01/2012 : Special Lecture : Vaishnava Cult in India, Prof Rebecca Marning, Indiana University, Bloomington, Dept. of Religious Study, University Funding, State Level
- 12/01/2012 : 150 Birth Anniversary of Swami Vivekananda, Swami Smarananandaji, University Funding, State Level
- 02/02/2012 : Seminar cum Workshop, Bhaskar Choudhury, University Funding, State Level
- 21/02/2012 : International Mother day programme, Dr. Dilip Naha, University Funding, State Level.

## **Presidency University**

### **2013**

- 21/02/2013 : Amar Ekushe : International Mother Language Day, Sohrab Hossain & Ashis Khastogir, University Funding, State Level.
- 22/03/2013: Raktakarabi : Translation in Rajvanshi Language and Reading-acting, Hari Madhab Mukhopadhyay, University Funding, State Level.
- 16/08/2013 : Seminar on Derozio and Derozian Culture, ( A seminar in which our student is the speaker), Expt. Chittabrata Palit Anamitraa Chakraborty, Dept. of Bengali, & Sandipan Manna, Dept. of Sociology, University Funding, State Level.
- 22/05/2013 : Workshop on Theatre : Stage and Light at Bijon Theatre, Kolkata Meghnad Bhattacharyya, Famous Actor & director, Somnath Chattopadhyay, Light Designer of Sayak, University Funding, State Level.
- 03/02/2013 to 24/05/2013 : Special Lecture by some distinguished professors, Prof. Sudhir Chakraborty, Prof. Sudipto Chatterjee, Prof. Soharab Hossen, Prof. Kuntal Mukhopadhyay, University Funding, State Level.

### **2014**

- 21/02/2014 : Matrivasha Dibas, Prof. Abhik Majumdar & Prof. Malabika Sarkar, University Funding, State Level.
- 17/04/2014 : Lalan : Manche O Lokayate, Prof. Sudhir Chakraborty & Prof. Sudipto Chatterjee, University Funding, State Level.
- 22/05/2014: Paper presentation by the Students, Sub : Bangla Theatre, Expt. Prof. Shantanu Das, University Funding, State Level.
- 04/02/2014 to 27/05/2014 : Special Lecture in different subject by some distinguished professors, Prof. Sudhir Chakraborty, Prof. Sudipto Chatterjee, Prof. Hiren Chattopadhyay, Prof. Kuntal Mukhopadhyay, University Funding, State Level.

### **2015**

- 13/02/2015 : Ekaler Bangla Kobitar Vasha : Himabanta Bandyopadhyay, Pinaki Thakur, Binayak Bandopadhyay, University Funding, State Level.
- 21/02/2015 : International Mother Language Day : Sadhan chattopadhyay, University Funding, State Level.
- 12/03/2015 : Bangla gadya O Peary Chand Mitra : Prof. Ramkrishna Bhattacharyya, University Funding, State Level.
- 07/04/2015 : Natyabibhay Manchabibhas : Bibhas Chakraborty, Prof. Swapan Chakraborty, Santanu Das, University Funding, State Level.
- 09/11/2015 to 30/11/2015 : A series of Lecture, An Interdisciplinary Lecture programme, Sub: Literature, Belief and Aesthetics, Prof, Swapan Chakraborty, Distinguished Chair Prof. PU, University Funding, State Level
- 05/11/2015 to 06/11/2015 : Two day Special Lecture, sub : Bengali Traditional Jatra, Dr. Pravat Das, Renowned Jatra Researcher, University Funding, State Level.

**ANNEXURE: 03**

**Seminar workshops attended by teachers of the Department in last three years  
(chronologically)**

**Ahamed, Mostak**

- Sristi Baichitre Rabindranath, 10th January, 2012, Dept. of Bengali, Sree Chaitanya College, State, Participant.
- Bangla Sishusahitya: Samayer Aynay, 11th January, 2012, Dept. of Bengali, Rabindra Bharati University, National, Paper Presenter.
- Rabindranath O Samakalin Prasanga, 9th-10th February, 2012, Dept. of Bengali, Bidhannagar Government College & Chittaranjan College, National, Paper Presenter.
- Bangla Nataka Lokonatyer Prabhab, 20th March, 2012, Dept. of Bengali, Netaji Satabarshiki Mahavidyalaya & West Bengal State University, State, Paper Presenter.
- The Song of Phoenix: Remembering Saadat Hasan Manto, 21th January, 2013, Dept. of Hindi, Presidency University & Jadavpur University, International, Speaker.
- Mir Masharraf Hossain: Jeevan O Kriti, 9th February, 2013, Dept. of Bengali, Aliah University, National, Paper Presenter.
- Bangla Sahitye Prantajan, 5th-6th March, 2013, Dept. of Bengali, Rabindra Bharati University, International, Paper Presenter.
- BAngalir Sanskritik Oitishya O Muslim Manan: pragadhunik Parba, 28th May, 2014, Dept. of Bengali, Aliah University, National, Paper Presenter.
- Banglar Samaj Nirikshan: Prekshit Gram Parikkramamulak Bangla Gadya Akkhyan (Nirbachita), August, 2014, Academic Staff College, University of Calcutta, Orientation programme, Paper Presenter.
- Modern Indian Literature, 17th-18th March, 2015, Rabindra Bharati University, National, Paper Presenter.
- Kangal Harinath O Grambarta Prakashika: Gramin Sangbadikatar Nirbhik Itihas, April, 2015, Academic Staff College, University of Calcutta, Refresher Course, Paper Presenter.
- Bangla Upabhasa Charchar Nana Dik, 31st May, 2015, Aliah University, International, Speaker.

**Bag, Khokan Kumar**

- Bangla Sahitye Prantajan, 5th-6th March, 2013, Dept. of Bengali, Rabindra Bharati University, International, Paper Presentation.
- Folk Culture, Folk Artistry and Artisan Society in North East India , Sep. 6-7, 2013, Dept. of Bengali, Vivekananda College, Alipurduar. National, Paper Presenter.
- Nana Ranger Rabindranath, Sep. 24-25, 2013, Dept. Bengali, Hiralal Bhakat College, Nalhati, Birbhum, National, Paper Presenter.
- Contribution of Sir Asutosh Mookerjee in expansion of National Education , Feb.14, 2014, Rampurhat College, Birbhum, State level, Paper Presenter.
- Bangalir Shilpakala Charcha : Aityjhya O Uttaradhikar , Feb. 9, 2015, The Asiatic Society , Kolkata , State level, Invited Speaker.

## **Presidency University**

### **Biswas, Uttam Kumar**

- International Symposium on ‘Relevance of Swami Vivekananda’s Philosophy and Education Thoughts to Contemporary World’, 17th January 2012, Dept. of Education in Collaboration with Syamaprasad College, Kolkata & Society for Global Philosophy and Culture, International, Paper Presenter.
- Short Term Course on ‘Disaster Management’, 14.03.2012 to 17.03.2012, UGC - Academic Staff College, Jadavpur University, National, participant.
- UGC Sponsored Seminar “BANGORANGOMANCHO O BENGALIABHINETRI”, 15TH & 16TH November 2013, Pingla Thana Mahavidyalaya, National, participant.
- UGC Sponsored National Seminar on “Bangla UPANAYASE PROTIBAD”, 19 & 20 decm. 2013, Kalinagarhat, 24pgs(N), Pin-743710, W.B. National, Paper Presenter.
- “Bangla Nataka Pratibad” of UGC Sponsored National Seminar ; Sub : Porotest in Rabindra Nrityanaty.; Dated 26th & 27th September 2014, Vidyanagar College, 24 pgs (S), National, Paper Presenter.
- Bangla Nataka Pratibad (UGC Sponsored), 8th & 9th March, 2013, Shyamaprasad College, National, Coordinator.
- “Porotest in Rabindra Nrityanaty”, 24th & 25th September 2014, South Malda College, National, Resources Person.

### **Jana, Devarati**

- Language, Literature and Society: Evolution, Problems and Prospects, 12-13 Mar 2013, Department of Bengali, Assam University, Assam, National, Speaker.
- Bangladesh: Smriti Satta Bhabishyat...Nirantar Samshay?, 10-11 Apr 2013, Department of Comparative Literature, Jadavpur University, International, Paper-presenter.
- Vivekananda o Bangla Sahitya, 27-28 Sep 2013, Department of Bengali, Maynaguri College, Jalpaiguri, West Bengal, National, Paper-presenter.
- Mythic and Folkloric Re-morphing in some Classical and Modern Literary Texts, 18-22 Mar 2014, The Asiatic Society, Kolkata, Workshop, National, Participant.
- Boichitre Oikyer Anwasha, 13-14 Mar 2015, Bangla Gabeshana Samsad, Bangla Bibhag, Bangla Samiti, Rajshahi University, Bangladesh, International, Paper-presenter.
- Urban Folklore & Impact of Urbanisation on Folklore, 23-24 Mar 2015, Folkloristic Education & Research Institute, Kolkata, National, Paper-presenter.
- Novel study, 15-17 January 2016, Folkloristic Education & Research Institute, Kolkata, Workshop, National, Participant.

### **Mandal, Sandip Kumar**

- Bangla Sahitye Prantajan, 5th-6th March, 2013, Dept. of Bengali, Rabindra Bharati University, International, Paper Presentation.
- Bangla Nataka Pratibad, 8th-9th March, 2013, Shyamaprasad College, Kolkata, National, Resource Person
- Bitarkita Rabindranath : Desh O Bideshe, 28th Feb. 2014, Centre for Studies and Research on Tagore, Rabindra Bharati University, National, Resource Person.
- Swadhinata Paraborti Bangla Nataka Gatimukh, 26th September, 2014, Vidyanagar College, National, Resource Person

- Rabindra Nataka Adhunikata, 26th March 2015, Rabindra Bharati University, National, Resource Person
- Sundarbaner Arthanaitik o Rajnaitik Sanskriti, 21st March, 2015, Calcutta University, State Level, Resource Person
- Unishshatakiya swadesh Chetatar prekshite Dwijendralal Rayer Natya Bhabna, 11th-12th August, 2015, Srirampur Girls College, National, Resource Person.

### **Mukherjee, Ritam**

- Rabindrantha o Samakalin Prosongo, 2012 March, Bidhannagar Govt College, National Level, Paper Presentation
- Puthi pathantar o Rabindra Pandulipi, 2012, Calcutta University, National Level, Paper Presentation
- Probajan, Punarbasan O Bangobibhajan : sahitye notun biswer sandhan, 2012, Uttar-Purbanchaler Samskriti, March 2012, Assam University. National Level, Paper Presentation
- Sampratik Sahitye Lok-upadan, 22-23 March 2013, Vidyasagar College, National Level, Paper Presentation
- Ganmadhyam O Rabindranath, 14-15 Sept, 2014, City and Manindra College, National Level, Paper Presentation
- Rabindra Kathasahitye Protibaad, 4-5 Dec, 2014, Pyarimohan College and Serampore Girls College, National Level, Paper Presentation
- Characterization of Women in Sanskritic Works, 26.02.15, Calcutta University, National Level, Paper Presentation
- Shambhu Mitra : Satabarshe Fire Dekha, 10-04-15, APC College, Bonhoogly, National Level, Paper Presentation
- Sampratik Sahitye Lok-upadan, 24.04.15, Belur Vidyamandir, National Level, Paper Presentation
- Rabindracharcha : Deshe-Bideshe, 5.12.15, Chandernagore Govt College, National Level, Paper Presentation
- Rabindrath o Mrityu, Renaissance Theatre Group, 9.04.13, Hatibagan, Local Level, Guest Lecture as Resource Person.

### **Nandi, Shaon**

- Shambhu Mitra : Satabarshe Fire Dekha, 10-11 April 2015, Prashanta Chandra Mahalanabis Mahavidyalaya, Kolkata, National, Paper Presentation
- Rabindranath : Bhasantare, 19 March 2013, Bankim Chandra Centre For Comparative Of Indian Studies (Rabindra Bharati University), Kolkata, Local, Participant
- Bankimchandra O Bharatiya Sahitya, 22 February 2012, Bankim Chandra Tulonamulok Bharatiya Sahitya Charcha Kendra, Rabindra Bharati University, Kolkata, Local, Participant

### **Rakshit, Mology**

- Rabindranath : Political Thoughts and his Plays Tagorian Theatre : Pan Indian Response, Natyashodh Sansthan & Rammohan Roy Library Foundation, 19-21 Jan. 2012, International, Speaker.
- Sater Dashaker Bangla Natak O Natyacharcha O Swadhinata-Uttar Bangla Natak, 30-31 Jan. 2013, Deptt. of Bengali, Sripat Sing College & Rani Dhnyakumari College, Murshidabad, National, Speaker

## **Presidency University**

- Sater Dashaker Bangla Natak O Natyacharcha O Swadhinata-Uttar Bangla Natak , 30-31 Jan. 2013, Deptt. of Bengali, ripat Sing Colleges & Rani Dhnyakumari College, Murshidabad National, Speaker (Keynote Address)
- Naman To Gnanpith, 18 July 2014, National Library, National, Speaker.
- Adhunik Natya Andolon O Sambhu Mitra, (Lecture Series, Named : “Premchand Bakhyanmal) 3 Sept. 2014 Hindi Department, P. U. National, Speaker.
- Nabanatya Andolane Sambhunitrer Bhumika, 14 Dec. 2014, By Parampara Prakashana, A Local Level Seminar, Speaker.

## **Saren, Santi**

- U.G.C Sponsored Five Days Research Workshop, 9-13th March 2015, Rabindra Bharati University, Kolkata, National Level, Paper Presentation.
- Capacity Building of Women Managers in Higher Education, 17-22nd February 2015, University of Kalyani, Nadia, National, Participant.

## **Uddin, Mafiz**

- Rahu Chandaler Har : Bajikar Jibaner ek Antaralekhya, 5th & 6th March, 2013. Rabindra Bharati University, International, Paper Presenter.
- Rabindranatak : Deshkaler Prekshit, 13-14 April, 2013, Maharaja Manindrachandra College. National, Paper Presenter.
- Manab kalyane Ved o Vedanusari Granthabali, 7th September, 2013, Sanskrit Department, CU, Refresher Course, Resource person.
- Manab kalyane Vaidik Disha : Tulanamulak Dharmatatter Aloke : Ved, Bible and Koran, 7th September, 2013, Sanskrit Department, CU, Refresher Course, Resource person.
- Ramnarayan o Madhusudaner natake Sanskrita Nataker Prabhab, 4th & 5th March, 2014, Rabindra Bharati University, International, Paper Presenter. Deshbhager Sahitya : Smriri o Bedanar Bahumatrik Upasthapan, 4th April, 2014, Kakdwip College, State Level, Paper Presenter.
- Rabindranatake Pratibad, 29-30 August, 2014, Chanchal College, National, Resource Person,
- Manastattik Upasthapan : Duti Malayalam Chotagalpa, 17th & 18th March, 2015, Rabindra Bharati University, National, Paper Presenter.
- RabindraBhabnay Adhunik Kabya, 26th March, 2015, Rabindra Bharati University, National, Paper Presenter.
- Chinnapatrer Shaili : Alankarik Chitrakalpamay Upasthapan, 27th March, 2015, Rabindra Bharati University, International, Paper Presenter.
- Rabindranath O Upanisad, 9th May, 2015, Ramkrishna Mission Residential College, State Level, Resource Person.
- Teaching Methodology, 31st May, 2015, Ramkrishna Mission, Sanderbil, 24 Pgs. (N), State Level, Resource Person.
- Child Psychology and Child Education, 29th November15, Ramkrishna Mission, Sanderbil, 24 Pgs. (N), State Level, Resource Person.

**ANNEXURE : 04**

**(List of Publications in papers, Books, Monographs, Last Four Years)**

**Ahamed, Mostak**

**Published Papers in Journals**

- 2012, 'Bichitrita: Bismayer Ar Ek Nirman', Review Preview, ISSN 2349-2767, p 44-47
- 2012, 'Batasi: Deshbhager Bhabnay Apratidwandi Atin', Madhyabarti, p 21-23
- 2012 'Nastanirh: Anubhuti Mekhe Eksha Jakhan', Balmiki, p 35-37
- 2013, 'Aamar Gitanjali: Anubad Chale Ratri Din', Meghdut, p 1 & 3
- 2013, 'Sudhu Kabitar jonyo Ei Jan MA..', Dibaratrir Kabya, ISSN 2229-5763, p 494-499
- 2014, 'Banglar Samaj Nirikshan: Prekshit Gram Parikkramamulak Bangla Gadya Akkhyan (Nirbachita)', 106 Orientation programme Proceedings, Academic Staff College, University of Calcutta, p 14-17
- 2015, 'Chalchitrer Khuntinati: Nidarun Matir Kachakachi', Dharabhasya, p 39-40

**Published Papers in Edited Books**

- 2013, 'Mantor Galpa: Narichetanar Anya Bhuban', Satabarshe Manto: Phire Dekha Phire Paoya, Jointly edited by Arup Kr. Das and Mostak Ahamed, Sahitya Sangi, ISBN: 978-93-82045-64-9, p 68-76
- 2014, 'Sesher Kabita: Inga-Banga Samajer Nana Mukh', Rabindranather Sesher Kabita, Edited by Dipankar Mallick & Radheshyam Saha, Diya Publication, ISBN: 978-93-82094-52-4, p 106-113
- 2015, 'Ustad Mehera Khan: Ek Shilpir Atmasankater Kahini', Bangla Chotogalper Ruprekha, Edited by Kutubuddin Molla, Karuna Prakashani, p 531-536

**Edited Books**

- 2013, 'Satabarshe Manto: Phire Dekha Phire Paoya', Jointly edited by Arup Kr. Das and Mostak Ahamed, Sahitya Sangi, ISBN: 978-93-82045-64-9

**Bag, Khokan Kumar**

**Published Papers in Journals**

- 2012, 'Changing Face of Women Exploitation in India' in International Journal of Social Science Tomorrow, Vol. 1 No. 1 ISSN: 2277-6168.
- 2012, 'Hindu Dharmer Swarup Chinta : Swami Vivekananda O Rabindranath' in Antarmukh, Vol. 2 No. 1. Pp. 71-77, ISSN 2249-3751
- 2012, 'Tushar Chattopadhyayer 'Anuprabesh' : Dishahin Nakshal Andolaner Ek Ananya Upanyas' in Pratidhani, Edited by: Bishwajit Bhattacharjee, Department of Bengali, Karimganj College, Karimganj, Assam-7888710, Online ISSN 2278-5264, Vol.1, No2.

## **Presidency University**

- 2012, 'Kobichandra Mukunda Mishrer 'Bashulimangal' : Rachanakal Nirnoy' in Antarmukh, Vol. 2 No. 2. Pp. 111-118, ISSN 2249-3751
- 2013, 'Dwijendralal Rayer 'Bhisma' : Samajik Barnoboishamyaer Prekshite' in Antarmukh, Vol. 2 No. 4. Pp. 74-78, ISSN 2249-3751
- 2013, 'Madhyazuger Bangla Sahitye Duti Premkabya : Jagotik Premer Dui Dhara' in Antarmukh, Vol. 3 No. 2. Pp. 40-49, ISSN 2249-3751
- 2014, 'Madhyabitto Bangali Jibone Bijnapan : Ekti Parjabekshan' in Antarmukh, Vol. 3 No. 3. Pp. 122-129, ISSN
- 2014, 'Buddhudev Basur Kobitay Dwidha : Rabindra Bhabnar Bandhan-mukti' in Antarmukh, Vol. 3 No. 4. Pp. 47-56, ISSN 2249-3751
- 2015, 'Rural livelihood of eighteenth century's Bengal : In perspectives of shivayana by Rameswara Bhattacharya', in International Journal of Multidisciplinary Research and Development, Vol 2 (3), pp. 642-644, E-ISSN: 2349-4182 , P-ISSN: 2349-5979
- 2015, 'Ausgram No II Block-er Jangalmahal : Bangali Nimnobarno Samaj' in Uttar Prasanga, Oct.-Nov. 2015, Vol. 9, No. 9-10, pp 120-130, ISSN 2348-2036
- 2015, 'Uttam Daser 'E-kaler Mangalkabya' : Mangalkabyer Nabayan' in Antarmukh, Vol. 5 No. 2, Pp. 34-42, ISSN 2249-3751

## **Published Books**

- 2012, Madhyayuger Bangla sahitye Shiv-Kahini : Upekshiter Katha, Sudarshan Prakashan, ISBN 978-81-922474-2-7.
- 2012, Changing Society, Culture and Its Impacts on People, Edited Book, Rupasi Bangla, Kol. 6. ISBN 978-81-909878-9-9
- 2013, Kabikankaner Chandimangal : Puraner Anusaran O Purbasurider prabha, Rupasi Bangla, January,2013, ISBN 978-93-81229-21-7

## **Biswas, Uttam Kumar**

### **Published Papers in Journals**

- 2012, 'Bisrita Avineta Kanu Bandyopadhyay'; Bahumatrik, Annual Journal of Teachers Council, S P College, ISSN-22789812
- 2014, Bhitarer Satya : Sarodotsab Natak; Bahumatrik, A Journal of the Teachers Council Yearly Magazine S P College, ISSN- 22789812

### **Published Papers in Edited Books**

- 2012, Nabanatya Andolon o Digindrachandra Bandyopadhyay, Bangla Natyacharya oitiya o uttradhikar' Editor-Debabrata Biswas, Banglar Mukh Prakashani, ISBN 978-81-9211-86-5-9
- 2013, Saktapadabali Purus Charitra, Saktapadabali : Chinta Charchar Nana Dik; Edited by Gargi Gangopadhyay, Akshar Prakashani, ISBN : 978-93-82041-12-2.
- 2014, Udbartaner Jabanbandi, Bangla Natakter Pratibader Bhasa; Edited by Debabrata Biswas, Ekush Shatak, ISBN : 978-93-8301642.



- 2015, Mayar Khela Antargata prokriti : Khela Bhangar Khela, Rabindra Charcha, Pragyabikas, ISBN- 978-93-8301642-6.

#### **Published Books**

- 2012, Digindrachandra Bandyopadhyayer Natak : Drishata Jiban, Banglar Mukh Prakashani, kol-129, ISBN-978-81-921186-9-7

#### **Edited Book**

- 2015, Chandbaniker Pala : Pratibader Pathmala, Edited by Uttam Kumar Biswas & Debabrata Biswas, Praggabikash, ISBN : 978-93-83016-40-2

#### **Jana, Devarati**

##### **Published Papers in Journals**

- 2012, Premendra Mitrer ‘Shudhu Kerani’: ekti alochona. Poitha, (ISSN 2277-8942), Year 1, v. 1; p. 50-54
- 2013, Rabindranather krishidarshan: Mulyaon O Prasongikata. Samatat, Year 44, v. 176, p.578-588, ISSN 0036-374X
- 2013, Betikromi Madhusudan O Meghnadbadhkavyer Akhyan-Bakyo. Sahityo Takko, Year 1 v. 2; p.16-22, ISSN 2320-6160
- 2013, Manik Bandyopadhyayer Nirbachito Chotogalpo: kichu bhabona. Sahityo Takko, Year 1 v. 1; p. 88-100
- 2014, Bangla Gadyer Dharay ‘Álali Bhasha’. Sahityo Takko, Year 2 v. 2; pp. 78-90, ISSN 2320-6160
- 2014, ‘Tanhader Katha’. Sahityo Takko, Year 2 v.1; pp. 230-237, ISSN 2320-6160
- 2015, Hutomer Bhasha ‘Beoarish Bangali’?!. Sahityo TakkoYear 3 v.6; p. 7-23, ISSN 2320-6160

##### **Published Paper in Edited Book**

- 2015, Bangla Bhasha Chintay Swami Vivekananda: Phire Dekha. Apromeyo Vivekananda, Edited by Dr Kartick Ch. Mondal, Tamralipta Mahabidyalaya, 254-269. ISBN 978-81-925539-1-7

##### **Published Chapter in Edited Book**

- 2015, BALaka, Rabindra-Sahitya, Edited by Dr Amalendu Chakrabarty, Publisher : GU-IDOL, p. 57-97. ISBN 978-93-84018-74-0.

#### **Mandal, Sandip Kumar**

##### **Published Papers in Journals**

- 2013, Kabyabhabnay Bishnu De ebang Jibananda Das, Journal of the School of Language, Moulana Azad College, p. 95-103
- 2013, Rabindra Kabyadarsha O Jibanananda : Swatantrer Anyatara Dik, Snatakottra Bangla Bibhagiya Patrika, Ranchi University, Jharkhand. p. 45-55

## **Presidency University**

- 2013, Charulatar Chithi, Ekti Granthalochana Granthalekhak : Dipankar Bhattacharya, Sristir Ekusshatak, p. 71-72
- 2014, Prak Jibananandiya Bharatiya Kabyabhabna, Viktoriya Journal of Arts, ABN Sheel College, Coochbihar, Issue 7, p. 104-112, ISSN - 0975-56322015,
- 2015, Gujrat Nagar : Kalketur Nagar, Bangalir Nagar ; Ebang Prantik,, ISSN - 2348-487X,
- 2015, 'Kasaikhana : Shib Kumar, Sristir Ekusshatak, Kolkata, P. 71-72

## **Published Papers in Edited Books**

- 2013, Kabikangkan-Chandi's Khabya : Rasana O Basana (An article on food of Mediaeval Bengali Text). Published in an edited Book : Kabikangkan Mukunder Chandimangal, Ebang Mushayara, Kolkata : 700073, April 2014, Page No. 297-303
- 2013, Shakta Padabali : Arya-Anarya Sanskritir Rupantar, Shakta Padabali Chinta-chetanar Nana Dik, 2013, Ed. by Gargi Bandyopadhyay, Akshar Prakashani, ISBN : 978-93-82041-12-2.

## **Published Books**

- 2012, 'Chandikamangal Kabya : Kabikangkan Mukundaram Chakroborti', Published by Dey's Publishing, Kolkata, Total page Numbers : 488 Pages, ISBN : 978-81-295-1594-0.
- 2013, 'Kabita-Kritika : Jibanananda Das o Samakal', Published by Ekushsatak, Kolkata : 700073, Total page Numbers :136, ISBN : 978-81-923688-5-6

## **Mukherjee, Ritam**

### **Published Papers in Journals**

- 2013, Bangla Natok-Kabyonatak : Poribeshbadi Bhasya / Srishti / Yr 8 : Vol 1 /ISSN 2321-7650.
- 2013, Jantra Manush o Bigganer Rupkatha /Sahitya Bisari / ISSN 2278-1978.
- 2013, 150yrs.e Upendrakishore : Koisorer Subharthi Kathakar / Notun Path.
- 2013, Atmojiboner Kobi Monindra Gupta / Kathasatya.
- 2013, Sesh Bore Amaratwo (Poulomi Sengupta-r Kobita) / Sudhu Kobitar.
- 2013, Dinesh Das-r Kobita : Nambe Sobuj Bhor / Potri / P.39-43.
- 2013, Swargo Nei, Saridon Ache / Kobita Campus.
- 2013, Shakta Padaboli o Ekaler Paathok / Chandrabhas / p.28-322014, Je Tore Pagol bole... (Rabindra-Bhanbnay Pagol) / Oihik / ISSN 2319 5460
- 2014, Balendra Nather Bhanbnay SHIB : Tulonatmak Path / Tathaysutra / p.182-187, ISSN : 2278-5922
- 2014, Binata Roychaudhuri-r Uponyas : Swasti, Kalyan, Aalo / Abokash sahityapatra / Yr 24 : Vol-62 / ISSN : 2320-5385
- 2014, Math Jadu 2012, Goirike tar bijoyketan, Swapno, ISSN 0976-9676.
- 2012,Ronger Bhitari Diye Jakhan, Amra Sahajatri, ISSN 2278-3385.
- 2012, Smaran 26 : Rabindra Pandulipir Path-Pathantar , Purbasa Ekhan, ISSN 2278-5779.

- 2012, Priyo Boi Pora, Purba, pp.142-146, ISSN 2230 9381.
- 2012, Ganesh Basur Kobita : Chhinnomul Kanna, Srijan, pp.90-95, ISSN 2278-8689.
- 2012, Bhuler Bhaba Asambhaber Chhandete, Sahitya Bisari, ISSN 2278-1978.
- 2012, Jose Saramago-r 'Cain' : Protipaksha Jakhan Iswar, Kobitirtha, pp. 161-169, ISSN 09747583.
- 2012, Bangla Kobitay Poribesh-Bhabna, Saradiya Coalfield times , pp.267-271.
- 2012, Kobitay Bhanga Banglar Smriti, Notun Chithi (Pujo Sankhya)
- 2012, Asambhaber Bastab O Chhodmobeshi Rupkatha, Natun Path ei samay (Pujo)
- 2012, Ke Chhere Padmer Parno ?, Saptaho (Pujo Sankhya)
- 2012, Abalupta Chaturtha Charan : Antarin Artonad, Tantghar, pp.149-153.
- 2012, Kobitay Raktokarabi : Arakta Samman, Sondhitsu (Aurobinda Vaban Prokashito)
- 2012, Ananda Bagchir Rabindranath : Grahone, Sarjone, Parabat Special issue.
- 2012, Tarun Sanyal O Subhas Mukhopadhyayer Kobitay 'Iswar, Saptaho.
- 2012, Binodaner Rabindranath, Srijan.
- 2012, Hariye Jawa Notun Banolata, Srijan Mallika Sengupta Spl.issue.
- 2012, Utkirno Jibansilpo amarta hoye ache (Bitashok-er kobita), Kriti, pp.11-13.
- 2012, Satabarshe ESHA : Manabir Tare Kandi, Ekaler Kobikantho.
- 2012, Irish Kobi Semaus Heane-r 'Digging' O Bangla Kobita, Bhumikany, Bangladesh pp.16. (International Publication)
- 2013, Bangla Kobitay Jounota : Dehoi Amritoghat , Balaka, ISSN 2230 9381, pp. 250-259.
- 2013, Sunil Gangopadhyeyr Kobita : Bhalobaa ek Tibro Ongikar / PuraBAsha Ekhon / ISSN 2278 5779. Kolkata and Norway (International Publication)
- 2013, Upendrakishor o Sukumar Roy : Mukh o Mukhosher Dwandwo / Oihik / ISSN 2319 5460.
- 2013, Shakuntala : Theme Parompara / Daag / ISSN 2278-3695.
- 2013, Tarun Sanayler Kobita : Nastiker Devibandana / Uttaran / ISSN 2347-159x/ P.142-148.
- 2013, Ecofeminism o 'Raktakarabee' / Sahitya Bisari / ISSN 2278 1978.
- 2013, Shakto Padaboli o Ekaler Pathak / ChandroBhas / ISSN 2278-3776.
- Jane : Praner Jadu (Soharab Hossainr Uponyas niye) / Sahitya Bisari / ISSN 2278 1978.
- 2014, Janmo Tri-satobarshe Kobi Bharatchandra / Daag / ISSN 2278-3695.
- 2014, Uttam Das-er Kobita : Iswaro Ek Kobi / Srijan / ISSN 2278-8689.
- 2014, 80-r Bangla Kobita : Narir Kalome / Uttaran / P. 214-218/ ISSN 2347-159x.
- 2014, Antigone : Theme Parampara / Ebong Ei Samay / p.25-33 / ISSN :2349-6169.
- 2014, Gaacher Kache Giye Darao / Abhijatri / p.91-97/ ISSN : 2321-2365.
- 2014, Deabarati Mitrer Kobitay Hindu Puran : Punarlikhan / Sahitya Bisari / ISSN 22781978.
- 2014, Onubade apollinaire-er kobita : byaktihgato Path , Padyatra, pp.181-188.

## **Presidency University**

- 2014, Ek Prokri Premiker Mrityu, Orchestra, pp.37-42.
- 2014, Copyright Mukti O amader Jibonanda Charya, Joka Samachar.
- 2015, Alokeranjaner Kobita : Protik 'PAAKHI' / MAC Peer reviewed Academic Journal of Languages and Social Sciences / Maulana Azad College / ISSN 2395 – 2431
- 2015, Seemay Prakash : Nalpe Sukhmasti / ISSN 2278-8689.
- 2015, Eseche Hawar Kabya / Srijani Dhara / ISSN 2320 6500.
- 2015, Rupkathar Prani Jagat : SahaBoSthaner Siksha / Sandhitsu / ISSN 2395 2903.5.

## **Popular Articles in Newspapers**

- 2012, Harry Potter o Thakrmar Jhuli, Khabar 365 din, (cover story)
- 2012, Sahitye Facebook, Facebook-e Sahitya, Sakalbela. (cover story)
- 2012, 123 Janmobarshe Solilajananda Mukhopadhyay, Sakalbela.

## **(Post Editorial)**

- 2012, Porir Desher Bandho Duyar, Sakalabela Saptahiki. (Feature)
- 2012, Ek DiBaser Prokhor Preme, Bhorer Barta. (cover story)
- 2012, 200yrs-e upekshito Robert Browning, Sakalbela. (Post editorial)
- 2012, 200yrs-e Iswar Gupta, Sakalbela. (Feature).
- 2013 Little Magazine : Swapno Bhanga-Gara / Swabhumi
- 2013 Bikeler Chhayay Royechi , Ebela.
- 2013 Ghumer Porda Tene, Ebela
- 2014, Bangla Boi, Bangali Pathak, Ebela.

## **Published Papers in Edited Books**

- 2012, Kaler Jattrar Dhvani, Rather Rasi : Samyobhaber Songlap, Edited by Debabrata Biswas, Progya Bikas, ISBN 978-93-81684-30-6
- 2013 Seshar Kobita : Dwimatrik Pather Nandan, 'Bangla uponyaser nana katha', Edited by Shital Chaudhuri, Dey's Pub, ISBN – 978-81-295-1588-9.
- 2013, Tarashankarer 'Sreshtha Galpa' : Akhyaner Gathan, Tarashankarer Chhotogalpo : Rup O Boichitrya, Edited by Shital Chaudhuri, Ratnabali pp.111-114, ISBN 978-93-81329-30-6.
- 2013, Tabu Ami Nabin Jatak, Sankha Ghosh, Edt.by. Santi Sinha, Diya Pub, pp.205-212, ISBN 978-93-82094-52-4.
- 2014, 'Raja o Rani' theke 'Tapati' ebong Eliot, Raja o Rani : Pathoker Anwesane Edited by Shital Chaudhuri, Ratnabali, pp.54-59, ISBN 978-93-81329-47-4.
- 2014, Bimal Kar-er 'Graham' : Poribesh-Prokriti-Samparka, Bimal Kar : Samay Asamayer Upakhyanmala, Edited by Ujjwalkumar Majumdar, Urmi Roy-Chaudhri and Sachin Das, Bongiyoy Sahityo Samsad, pp.307-313, ISBN 978-93-83590-21-6

- 2015, Arogyer Janyo Sabuj, Jete Pari kintu keno Jabo Edited by Laxman Karmakr, Srijan, ISBN : 978-81-925338-7-2.
- 2015, Biggane Proggane Dhyane Barenyo Trivedi, Bigganjyoti-Darshonik Ramendrasundar Trivedi, Edited by Biswanath, Radiance, ISBN : 578-93-81037-16-4.

### Published Books

- 2013, 150yrs.e Meghnad badh Kabya : Dui Kaler Darpane, (Edited book)Joint Editor with Tarun Mukhopadhyay, Bhasha O Sahitya, ISBN 81-8438-068-2.
- 2014, Dhruvakumar Mukhopadhyay : BAyas 75 (Edited book), Vidya.

### Nandi, Shaon

#### Published Papers in Journal

- 2012, Kabi Sunil Ebong Uttaradhikar, Pinak. pp.37-42
- 2012, Priya ...Boi '(‘Dharme Achho Giraffeo Achho’), Japanchitra. P.199-208
- 2012, Kathamanabi, Ekti Asamapta Itihas Gitika, Pinak. P. 86-97
- 2012, Utsarito Alo, Pratiti, pp.153-157
- 2013, Dwijendralaler Sajahan : Tathya Theke Satye Uttaran, Anya Pra MA P.51-61
- 2013, Ekaler Bangla Kabita : Samayer Rekhachitre Shabder Bibartan, BALaka , P.89-103 , ISSN: 22309381
- 2013, Jasim Uddiner Smritikatha, Arek Rakam.
- 2013, Premendra Mitrer ‘Jang’ : Samayer Garho Artaswar, Pratiti. P.73-76
- 2013, Abantar Smritir Vitar, Kabisammelan. P.233-235
- 2013, Beje Otha Aloukik Piyano, Dhruva Sahitya Kahan.
- 2013, Jege Otha Alor Akhore : Sankha Ghosher Gadya, Nillohit , P.80-95
- 2013, Valobasa Dite Pari , Tomra ki Grohone Saksham? (Book review), Agrabij. P.120-135
- 2014, ‘Pratibader Kabita’, Japanchitra, pp.76-94
- 2014, ‘ Bangla Chhotogolper Prothom Porjay : Koyekti Tamas-Kathin Parinam ’, Japanchitra. pp154-160
- 2014, Rabindranather Proti Jodi Sotyii Shraodhashil Hotam Bangla Bhashake Morjadar Jaygay Rakhtam : Shrikanta Acharya’( Interview taken by Shaon Nandi ) , Sharadiya Natun Kabisammelan , pp 296-324
- 2015, Kothay Thamar Chhilo ... Kothao Thamar Achhe Naki !, Japanchitra, pp.143-146
- 2015, Kabita Singher Kabita : Ekti Abalokan, Ebang Mushayera, pp.178-183 , ISSN : 09769307

#### Published Papers in Edited Books

- 2013, Jakhan Jekhane Thaki Bhule Thaki Purba Parichay, Janmabij Kathay Kathay, Edited by Somabrata Sarkar, Rajdip Ray, Japanchitra, P.30-38 , ISBN : 978-93-80980-22-5
- 2014, “ ‘Charja’ Ebong Isharar Uttaradhikar”, Charjapad : Punarmulyayan , Bangiya Sahitya Sangsad , P. 264-272 , ISBN : 978-93-83590-78-0

## Presidency University

### Published Books

- 2012, Panchas : Kabitar Nayachar, A Collection of Articles About Modern Bengali Poetry, Single Author, Bangiya Sahitya Sangsad , Total number of pages: 560 , ISBN: 978-93-82012-21-4

### Rakshit, Moloy

#### Published Papers in Journal

- 2012, Bor Boloramer Boloram Puja; Ekti Samikha, Suchonapatro, page 48-68.
- 2012, Tumi ki kabole chabi, Parampara, prastuti sankha, ISSN 2320-6497, pp. 17-20
- 2012, hinsrater prekhite sikhak o chatro samaj, Anustup, 46 Barsho 4 sankha, ISSN 2320-6497 pp.3-6
- 2012, proBase ahomer Base, Bohurupee, Sankha—117 / p,211-219.
- 2012, mohitlal mojumderke likhit patragucha; tika o patra-parichiti,(vumika o patra- parichiti ansha), Anustup, 47 BARsho 1st sankha, ISSN 2320-6497 pp,755-786
- 2012, kabitar prati mohiter anterer tan chilo: sunil gangopadhyer sakhatkar, Rangopat Nattapatra -9,p. 243-246
- 2012, “I Can nevar live this place”: Harimadhab mukhopadhyar sakhatkar, Brattajon Nattapatra. pp. 129-147
- 2012“Biruddhatar mokabilai theaterer sarthakataiasha kori”: Ashok sener sakhatkar Anustup, 46 Barskherjeeo 1st sankha, ISSN 2320-6497 pp. 287-311
- 2013, Theatarer Arthaniti O prasangik kichu katha, Tukro katha, Vol 4, pp. 47-49
- 2013, Bimal kabitto ashe : buddhijibi O Bangla theatre bisayak ekti sandarbha, Anustup, Vol. 47 Issue iv, ISSN 2320-6497 pp. 554-589
- 2013, Patha natak bishye du char katha, Korak, ISSN 2320-6497 pp. 427-436
- 2013, Communication through Public Stage! : A Study in 19th Century Bengali Theatre, Global Media Journal, (International Journal, Indian Edition), University of Calcutta, ISSN 2320-6497.
- 2013, Himalayer Hatchani, Parampara, Vol-1, Issue- 1, Jan. 2013, ISSN 2320-6497 P. 159-163.
- 2013, Rabindranath: Bhubarna Dyuti, Arek Rakam, Vol-1, Issue- 2, P.45-59
- 2013, Gnapan O Goponer Prachhana Akhyan, Anustup, Vol-47, Issue-3, ISSN 2320-6497 pp. 83-90
- 2013, Kalpaloker Janjalmahal, Parampara, Vol-1, Issue-2, ISSN 2320-6497 P.47-51
- 2013, Alik samarjya, SEW Journal, Vol-4, Issue iv, ISSN 2347-2898 pp. 58-68
- 2013 Birbaler Atmakatha O Prasangik Kichu Katha, Ekusher Charjya, Vol-2, Issue ii, , ISSN 2319-4871 pp. 41-48
- 2013, Nirbikar nirapeksha Ek gabeshak O Shrasta, Parampara, Vol-1, Issue- iii, ISSN 2320-6497 pp. 93-114
- 2013, Bangle Theatre bishae ekti Jaruri grantha, Parampara, Vol-1, Issue- iii, ISSN 2320-6497 pp. 76-80
- 2013, Andahkarer Utsha Hate, Parampara, Vol-1, Issue- iv, ISSN 2320-6497 pp. 305-31
- 2014, Bratyajaner kathakar, Hundred Miles, Vol-4, ISSN 2321-8983 pp. 167-176
- 2014, Amar Dairy Theke : Natyacharjyyer Sanidde : Samik Bandhyopadhyay, Anustup, Vol-49, Issue-i , ISSN 2320-6497 pp. 930-950
- 2014, Anibarjovabe Oitihatik, Bahurupee, Issue 122, pp. 256-268

- 2014, Bangla Theatre : Bilalpo Itihaser Sandhane, Parampara, Vol-2, Issue- i, ISSN 2320-6497 pp. 153-155
- 2014, Swapna-vonger Suchana, Parampara, Vol-2, Issue- i, ISSN 2320-6497 pp. 174-184
- 2014, Agni bisayak Ekti Natyaprojojana, Parampara, Vol-2, Issue- ii,ISSN 2320-6497 pp. 132-144
- 2014, EBAr Mukosh Chnerar Pala, Natyapatra SAS-31, pp. 245-252
- 2014, Sananya Kshati : Jhatikar Prachanda Ahaban, Parampara, Vol-2, Issue- iii, ISSN 2320-6497 pp. 187-208
- 2014, Itihaske Jana Ekti BAro Kaj, Anustup, Vol-49, Issue-i, ISSN 2320-6497 pp. 737-762
- 2014, Tepantarar Khnoje, Rangapat Natyapatra-11,pp.
- 2015, Rat Kato Holo? Uttar Pele Mukhujje, Anustup, Vol-49, Issue-iii , ISSN 2320-6497 pp. 195-209
- 2015, Jonakir Uran, Parampara, Vol-3, Issue- iii, ISSN 2320-6497 pp. 62-68
- 2015, Itihaser Trajik Prahazan, Anustup, Vol-50, Issue-i, ISSN 2320-6497 pp. 315-328
- 2015, Saptokotir Bharatbhumi : Dwijendranatoke Hindu Musalman, Anustup, Vol-50, Issue-ii, ISSN 2320-6497 pp. 195-209
- 2015, Jibaner chala Sesh parjanto kothay tene nie jay ami seta dekhte chai, Parampara, Vol-3, Issue- i, ISSN 2320-6497 pp. 83-96
- 2015, Nijeke vangte vangte Purnotar Saandhane, Sayak Natyapatra, pp. 207-242
- 2015, Bangla Theatrer Ek Tukro Chapa-para Itihas, Parampara, Vol-3, Issue- iv, ISSN 2320-6497 pp. 221-271
- 2015, Theatre karte gele Himmat Lage, Manthan Natyamukhapatra, Vol-1, Issue-i, pp. 81-97

#### **Popular Articles in Newspapers:**

- 2012, Matir gandga harie feleche jatra, BArtaman.

#### **Published Papers in Edited Books :**

- 2012, Rabindra natak : Birodh noy Samajik Samanjayshya, Anustuper Rabindranath, Vol-1, Ed. By Anil Acharjyya, Anustup, ISBN 978-81-85479-84-2, pp. 498-524
- 2014, Vhumika (A Preface), Hiroshimar Sandhane, Nargis Parvin, Parampara Prakashan, ISBN 978-93-80869-02-5 pp. 9-21
- 2015, Jibaner chala Sesh parjanto kothay tene nie jay ami seta dekhte chai, Ebong Bratya, Edt. By Sovan Gupta, Bratyajan Prakashan,. ISBN 978-81-85479-84-2 pp. 457-470
- 2015, Nirbikar Nirapeksha Ek Gabeshak O Srahta, Dwiralap by Sudhir Chakraborty, Patralekha, ISBN 978-93-81858-86-8 pp. 161

#### **Published Books:**

- 2012, Rabindranath Thakur : Nirbachito Natak Sangraha (Edited Book / Bhumika O
- Tathyapanji), Alakananda Publishars, ISBN : 987-81-923637-1-4
- 2013, Theatre Ekti Batyakrami Natyapakshik, Dey's Publishing, Dec 2013, ISBN 978-81-2951898-9

## **Presidency University**

- 2014, Bangla Rangamancha O Shishir Kumar, by Hemendra Kumar Ray, (Edited book) Sutradhar Prakashan
- 2015, Prasanga Natyachinta : Bahurupee, Abhanoy-Darpan O Abhanoy Theke, Jointly edited With Souvik Chakraborty, ISBN 978-93- 80869-30-8
- 2015, Sadhabar Ekadashi : Punarbichar, Akshar Prakashani, ISBN 978-93-82041-37-5,

## **Saren, Santi**

### **Published Paper in Journals**

- 2015, “Hulmahar Maa: santal bidroher aloke narityer Bahumatrikat, Kazi Nazrul University Crossroads: The Journal of Transdisciplinary Studie, vol 1 no 1, pp.-106-112, ISSN :2395-5864.

### **Newspaper Aricles :**

- 2012, “Bahabanga : Santal samajer janapriya utsab” (Feature) Published in Pratyahik Khabar.
- 2012, “Paracharchar akak kathan” Book Review published in Pratyahik Khabar,

### **Published Papers in Edited Books**

- 2015, “Bangla Sahitya Baganer Mali” Saren S. and Debashish Ghosh, Ujjal Uddhar, Edited by Hiren Chattapadhyay, Dey’s, publishing, pp.-219, ISBN No-978-81-295-2385-3

## **Uddin, Mafiz**

### **Published Paper in Journals**

- 2015, Arthasamajik Sankater Chitra : Duti Malayalam Chotagalpa, Ami Arani, pp. 208-212, ISSN - 2277-8780

### **Published Papers in Edited Books**

- 2015, Chandbaniker Pala : Sanglaper Bhasasaili, Chandbaniker Pala Pratibader Pathamala, Edt. by Debabrata Biswas and Uttamkumar Biswas, Pragnabikash, Pragnabikash, pp. 136-153, ISBN : 978-93-83016-40-2,
- 2015, Mirmasharrafer Jamidardarpan : Purustantra o Narir Lanchana, Jamidardarpan Nikrister Namabali, Edt. by Debabrata Biswas and Shyamal Chandra Das, Pragnabikash, pp. 290-297, ISBN : 978-93-83016-46-4

### **Published Books**

- 2014, Bangla Sahitye Sanskrita Sahityer Pravab o Prerana, November, ISBN : 978-93-80197-86-9
- 2014, Bhasabigyaner Paridhi, Abhijan Publishers, July, ISBN: 978-93-80197-94-4
- 2015, Shyamal Gangopadhyayer Upanyas : Bhasa o Shaili, Ekusshatak, ISBN 978-93-83521-34-0



**ANNEXURE : 05****( List of Conference Publications Last Four Years)****2012**

- Bag, K. K., ‘Adhunik Jibancharcha O Bangla Lokasanskritirr Bhabissat’ in “Lokmon”, Edited by Gautam Kr. Mondal, “Kabitika”, Midnapur, April 2012, ISBN 978-93-81554-23-4.
- Bag, K. K., “Paribartanshil Samaj-sanskriti : Dui Prajanmer Duti Bangla Upanyas” in Changing Society, Culture and Its Impacts on People. ISBN 978-81-909878-9-9. May, 2012. Pp 488-496

**2013**

- Bag, K. K. “Prabartanshil Samaj O Lokasanskriti : Lokposhak” in Lokasanskriti, Lokashilpa O Shilpisamaj”, ISBN 978-81-86860-89-2 [Print]. Pp. 89-97, 2013.

**2014**

- Uddin, M. Amiyobhusan Majumdarer ‘Nirbas’: UdBastu JiBAner Alekhya, in ‘Partition Literature : Memory and Inheritance of Self’, Netaji Subhas Open University, ISBN- 978-93-82112-11-2

**ANNEXURE: 06****( Synopsis of Publications)**

<b>Publications</b>		<b>2012</b>	<b>2013</b>	<b>2014</b>	<b>2015</b>	<b>Total</b>
Paper (peer-reviewed)	national	45	55	37	32	169
	International	02	01	00	01	04
Books & Monographs	national	06	05	04	06	21
	International	00	00	00	00	00
Articles in magazine/ Newspaper		10	03	01	00	14

**ANNEXURE : 07**

**Names of Students with outstanding achievements and placements for higher studies  
(last four years)**

**2012**

- Ratul Ghosh, (Assistant Professor) W.B.E.S
- Torsha Bandyopadhyay, Student of S.R.F.T. Now she is a renowned filmmaker in Bengali film-industry
- Anwasha Khan, W.B.E.S.

**2013**

- Aditi Banerjee, W.B.E.S.
- Shruti Goswami, Assistant Professor, St. Xavier's.
- Avishek Chakraborty, Assistant Professor, St. Xavier's.

**2014**

- Rohan Roy, W.B.E.S.
- Souvik Chakraborty, (ABP, News Editor)

**2015**

- Bijlee Raj Patra, Script-writer, Star Jalsa Media.
- Anwasha Sen, ABP
- Sudeshna Majumder, ABP

**A brief history of the Department :**

Bengali as a subject was taught from the very beginning of this Institution, then Hindoo College, since 1817. Although Bengali was excluded from the syllabi of F.A & BA courses sometime in the second half of 19th century, it was reintroduced early in the 20th century when a combined department of Bengali, Sanskrit and Hindi was created. Professors Shibaprasad Bhattacharya, Sasanka Shekhar Bagchi and Ashoke Nath Bhattacharya Shastri were some of the eminent teachers of Bengal at that time. From 1945, the Department of Bengali started functioning independently. The Honours course in Bengali language and literature at the undergraduate level was introduced thereafter. This marked the beginning of a new phase for the Bengali department and among the distinguished alumni who made remarkable contributions to literary, cultural and political fields in India were Shankha Ghosh, Alope Ranjan Dasgupta, Sisir Kr. Das, Ujjwal Kumar Majumder, Rameswar Shaw, Nirmalendu Bhowmick, Manas Majumder, Buddhadeb Bhattacharyya, Harsha Dutta, Bratya Basu, Tapabrata Ghosh and many others. Many notable and recognized scholars served this department as teachers, including Professors Janardan Chakravarti, Kshudiram Das, Chintaharan Chakravarti, Bhudeb Chowdhury, Bholanath Ghosh, Haraprasad Mitra, Bhabatosh Dutta, Arun Kr. Mukhopadhyay, Hirendranath Chattopadhyay, Praloy Sur, Sabyasachi Dev, Kaushik Roychowdhury, Kabita Chanda and others. The Department continues to be enriched by the contributions of eminent professors such as Professors Ujjwal Kumar Majumder, Alok Roy, Pabitra Sarkar, Manas Majumder, Himabanta Bandyopadhyay. The Department of Bengali offers undergraduate honours, postgraduate and PhD courses. The Department is actively engaged in research and publications.

## Evaluative Report of the Department : English

1. **Name of the Department** : English
2. **Year of establishment** : The Department of English (of the erstwhile Presidency College) is perhaps one of the oldest centres where English literature has been taught from the early nineteenth century onwards.
3. **Is the Department part of a School/Faculty of the university?** : Faculty of Humanities and Social Sciences
4. **Names of programmes offered (UG, PG, MPhil, PhD, Integrated Masters; Integrated PhD, DSc, DLitt., etc.)** : BA (Hons) in English, MA in English, PhD in English, GenEd 4-semester general course at the UG level
5. **Interdisciplinary programmes and departments involved**
  - The GenEd Courses designed by the department involve other departments from both the Humanities and the Sciences. Some of our courses on offer are Digital Humanities, Shakespeare for Everyone, Tagore in Translation and Indian Literature in English. Hugely popular GenEd courses like “Space, Time and the Cosmos” shared the space between disciplines of English and Physics, drawing not only English Honours students but also a large pool across the Humanities and the Sciences. The department has also spearheaded international collaboratory projects on Dutch cemeteries in Bengal and on ‘Narratives of Migration between Scotland and England’ that involved enthusiastic student participation.
6. **Courses in collaboration with other universities, industries, foreign institutions, etc.**
  - In the near future, the department plans to run courses in collaboration with the University of East Anglia and SOAS, University of London. MoUs have been already signed with these universities for teaching and research collaborations and exchange programmes. Informal collaboratory classes/talks with senior international faculty is frequently on the itinerary and exposes students to the highest level of Global research.
7. **Details of programmes discontinued, if any, with reasons** : None
8. **Examination System: Annual/Semester/Trimester/Choice Based Credit System**
  - We have a semester system with Choice Based Credit System. The students need to take range of compulsory courses that solidifies their foundational understanding of the discipline. In addition, they have a wide and interesting assortment of optional courses (list on the website) that engage key (inter-)disciplinary areas of research that are emerging at the Global level.
9. **Participation of the department in the courses offered by other departments**
  - Frequently, professors from the English department are invited for talks and lectures in other departments across the campus. Dr. Anupama Mohan was invited to the Department of Sociology, and Dr. Sumit Chakrabarti was invited to the Department of Bengali for talks in the past semesters.
10. **Number of teaching posts sanctioned, filled and actual (Professors/Associate Professors/Asst. Professors/others)**

Designation	Sanctioned	Filled	Actual (including CAS & MPS)
Professor	3	1	1
Associate Professors		2	2
Asst. Professors	11	8	8
Others			

**11. Faculty profile with name, qualification, designation, area of specialization, experience and research under guidance**

Name	Qualification	Designation	Specialization	No. of Years of Experience	No. of PhD/ MPhil students guided for the last 4 years
Sumit Chakrabarti, (Head)	PhD (Jadavpur University)	Associate Professor	Postcolonial theory and literature	13 years	3 (M. Phil)
Purna Banerjee	PhD (Texas Christian University)	Associate Professor	Victorian Literature, Feminist Studies, Postcolonial Studies	16 years	3 (M.Phil)
Shuhita Bhattacharjee	PhD (University of Iowa) M Phil (Jadavpur University)	Assistant Professor	Victorian Literature and Culture, Studies on Religion and Secularism, Postcolonialism, Gender Studies	2½ years	0
Kalyan Kumar Das	PhD (Jadavpur University, ongoing)	Assistant Professor	Postcolonialism, Dalit studies, literature and historiography, Subaltern Studies, African literature	3½ years	0
Shanta Dutta	PhD (University of Leicester) MPhil (Calcutta University)	Professor	Victorian literature, science and literature, the novel as a literary form, women's writing, the English short story	29½ years	7 (Ph.D) 3 (M.Phil)
Mahitosh Mandal	PhD (Jadavpur University, Ongoing) M Phil (Jadavpur University)	Assistant Professor	Psychoanalysis, Postmodernism, Postcolonialism, Ramakrishna-Vivekananda Movement, Dalit Studies	3½ years	0
Anupama Mohan	PhD (University of Toronto) MPhil (Delhi University)	Assistant Professor	Critical theory, history of ideas, Global modernisms, South Asian Studies, postcolonialism	5 years	1 (PhD)
Anirban Ray	PhD (Jadavpur University, ongoing) MPhil (Jadavpur University)	Assistant Professor	Visual arts, Romantic Literature, Science Fiction	2½ years	0
Souvik Mukherjee	PhD (Nottingham Trent University) MPhil (Jadavpur University)	Assistant Professor	Narratology, Digital Humanities, Game Studies, Renaissance Studies	5 years	0

Name	Qualification	Designation	Specialization	No. of Years of Experience	No. of PhD/ MPhil students guided for the last 4 years
Suddhaseel Sen	PhD (University of Toronto)	Assistant Professor	Renaissance Studies, Adaptation Studies, European Literature, Postcolonial Literature, Musicology	3 years	1 (PhD)

**12. List of senior Visiting Fellows, adjunct faculty, emeritus professors**

- Professor Swapan Chakravorty, Rabindranath Tagore Distinguished Professor in the Humanities, is closely associated with the department.
- Professor Amlan Dasgupta, Jadavpur University, has frequently delivered talks as part of the Digital Humanities endeavour.

We organize frequent collaborative lectures by eminent international speakers in the form of conferences and virtual classrooms.

**13. Percentage of classes taken by temporary faculty – programme-wise information**

- Less than 10% of the total number of classes.

**14. Programme-wise Student Teacher Ratio :**

- 15:1 (rough estimate)

**15. Number of academic support staff (technical) and administrative staff: sanctioned, filled and actual : Centrally controlled.**

**16. Research thrust areas as recognized by major funding agencies**

- **Nineteenth-Century Studies (including Victorian Studies)** is a central area of departmental focus that covers many aspects of literature and culture in the long nineteenth-century across continents.
- **Digital Humanities** has been an important research area for the department with several internal collaborations and student-led projects.
- The **other arts, including music, film, opera, and the fine arts**, are areas of departmental specialization with regular courses being offered in the area.
- **Dalit Studies** has emerged as a departmental interest area with “young researchers’ conferences” that aim to bring nationwide scholars together.
- **Post-colonial Studies** is a crucial area of departmental engagement, both within the classroom and outside, inspiring several student research projects.
- **Gender Studies** is a shared research passion for all departmental faculty in its various literary, theoretical, and sociological aspects. This has also inspired many student-driven gender-themed events and ‘gender awareness months’ on the campus.

## Presidency University

### 17. Number of faculty with ongoing projects from a) national b) international funding agencies and c) Total grants received. Give the names of the funding agencies, project title and grants received project-wise. (Synopsis to be given here and provide full List in annexure)

Four faculty members have been engaged in international and national projects during this period.

Sl. No	Year of Initiation	Year of Completion	Funding agency	PI	Title	Fund Sanctioned	Fund Received	Completed / ongoing
1	2013	2014	The Embassy of the Netherlands	Dr. S. Mukherjee	‘Digitising the Dutch Heritage in Bengal’ project[‘The Dutch Cemeteries in Bengal’ digital dataBase]		Rs. 40,000	Completed
2	2014	Ongoing [Projected Completion: 2016]	The UGC and British Council, as part of the UK-India Research Initiative (UKIERI) Partners: The University of St. Andrews, Scotland; the Depts. of History and Philosophy, Presidency University	Dr. S. Mukherjee (co-PI from Presidency University)	UKIERI-funded Research Project: ‘Narratives of Migration between Scotland and England’		Rs. 26,00,000	Ongoing
3			Balzan Foundation	Dr. Suddhaseel Sen	Research Visitorship, “Towards a Global History of Music, cond. Prof. Reinhard Strohm”			
4			Orient Blackswan	Dr. Sumit Chakrabarti	Series Editor, Theory Series			
6	2014	2014	University of Iowa	Dr. Shuhita Bhatta charjee	Marcus Bach Fellowship for Projects on Religious Studies	Rs. 6, 24,000	Rs. 6, 24,000	Completed

**18. Inter-institutional collaborative projects and associated grants received**

**a) National collaboration, b) International collaboration**

- (i) The UGC and British Council, UK-India Research Initiative (UKIERI); and The University of St. Andrews, Scotland; the Depts. of History and Philosophy, Presidency University for the UKIERI-funded Research Project: ‘Narratives of Migration between Scotland and England,’ under the supervisorship of Dr. Souvik Mukherjee
- (ii) EmBAssy of the Netherlands for the project entitled ‘Digitising the Dutch Heritage in Bengal’ project, under the supervisorship of Dr. Souvik Mukherjee

**19. Departmental projects funded by DST-FIST; UGC-SAP/CAS, DPE; DBT, ICSSR, AICTE, etc.; total grants received.**

- The department is in the process of applying for an SAP in an area of departmental specialization. We have also received grants from a distinguished alumnus for housing in the department the Centre for Studies in Romantic Literature (with a rich library for the students) and for the setting up of the Tarak Nath Sen Auditorium with state-of-the-art audio-visual equipment.

**20. Research facility / centre with**

- state recognition : None
- national recognition : None
- international recognition : None

**21. Special research laboratories sponsored by / created by industry or corporate bodies : None**

**22. Publications: (See Annexure)**

- Number of papers published in peer reviewed journals 27
- Monographs 5
- Chapters in Books
- Edited Books
- Books with ISBN with details of publishers
- Number listed in International DataBase (For e.g. Web of Science, Scopus, Humanities International Complete, Dare DataBase - International Social Sciences Directory, EBSCO host, etc.)
- Citation Index – range / average
- SNIP
- SJR
- Impact Factor – range / average
- h-index

**23. Details of patents and income generated :** Nil

**24. Areas of consultancy and income generated :** Nil

## Presidency University

### 25. Faculty selected nationally / internationally to visit other laboratories / institutions / industries in India and abroad

- The departmental faculty has been invited to deliver talks at and preside over around seventy international and national conferences during this period (details in the annexure). This has involved Global travel, institutional collaborations, archival explorations, and student-enrichment. Drawing from these international exposures, the faculty has striven to incorporate the latest Globally emerging fields, themes, and approaches into the syllabus and teaching strategies. As a result, our students have had a privileged engagement with the most upcoming developments in literary studies which have encouraged them to pursue new directions of research.

### 26. Faculty serving in

- a) National committees b) International committees c) Editorial Boards d) any other (please specify)

- **Dr. Sumit Chakrabarti**

Member of the Statute Committee, Bankura University, WB

Member, Board of Studies, Burdwan University (Distance Learning), WB

External Expert, PG Board of Studies, Basanti Debi College, WB

Member, Postcolonial Studies Association, United Kingdom.

Member, Indian Association for the Study of Australia (Eastern Region)

Member, Advisory Board, "Piedra de Toque" edited by the Research Group on World Literatures (Grupo Investigador de Uteraturas en el Mundo) of the University of Los Andes (Merida-Venezuela).

- **Dr. Shanta Dutta**

a) Former Member of 'The Thomas Hardy Society' (Global; Based in Dorchester, U.K.).

b) Honorary Life-member and one of the Vice-Presidents of 'The Thomas Hardy Association' (Global; Based in Yale, U.S.A., till June 2010; shifted to Univ. of St Andrews, U.K., from July 2010).

c) External Expert, PG Board of Studies in English, Lady Brabourne College.

d) External Expert, PG Board of Studies in English, Bethune College.

e) Former External Expert, Departmental Research Committee, Dept of English, University of Kalyani.

f) External Expert, 'Expert Committee for MA in English', The Bhawanipur Education Society College.

g) External Subject Expert in the selection committee (for recruitment of English faculty) in various Universities in West Bengal.

- **Dr. Anupama Mohan**

a) Member, Editorial Board, Journal of South Asian Studies

b) Member, Editorial Board, Caesurae: Poetics of Cultural Translation

c) Reviewer for SAR: South Asian Review

d) Reviewer for Postcolonial Text

e) Reviewer for ARIEL



- f) Reviewer for JDTC: Journal of Drama Theory and Criticism
- g) Reviewer for ISLE: Interdisciplinary Studies in Literature and Environment
- h) Reviewer for Longman Pearson, U.K.

*PROFESSIONAL ASSOCIATIONS*

- a) Modern Language Association (MLA)
- b) South Atlantic Modern Language Association (SAMLA)
- c) Society of the Study of Multi-Ethnic America Literature in the US (MELUS)
- d) American Comparative Literature Association (ACLA)
- e) La Société d'Activités et de Recherche sur les mondes Indiens, Université Paris

- **Dr. Souvik Mukherjee**

- a) Member, Board of Digital Games Research Association
- b) Member, Board of the Journal of Games and Virtual Worlds and Game Studies

- **Kalyan Das**

- a) Member, United Kingdom Arts and Humanities Research Council (AHRC) International Project on Dalit Literatures--- Writing, Analysing, Translating Dalit Literatures
- b) Member, Board of Editors, Indian Journal for Comparative Literature and Translation Studies (IJCLTS) Hyderabad.

- **Mahitosh Mandal**

- a) Member, Editorial Board, The Rupkatha Journal on Interdisciplinary Studies in Humanities (<http://rupkatha.com>)
- b) Member, Editorial Board, Spring Magazine on English Literature (<http://www.springmagazine.net/>)

**27. Faculty recharging strategies (UGC, ASC, Refresher / orientation programmes, workshops, training programmes and similar programmes).**

- The departmental faculty members periodically update themselves through refresher and Orientation programmes. The senior faculty members regularly serve as resource persons for refresher / orientation programmes, workshops, training programmes and similar programmes.

**28. Student projects (See Annexure)**

- \* percentage of students who have done in-house projects including inter-departmental projects
  - Around ten percent of our students have done in-house projects including inter-departmental projects.
- \* percentage of students doing projects in collaboration with other universities industry / institute

**Student Achievements**

**Student Publications:**

1. Datta SM, Mukherjee U. (2015). 'Pukka sahibs' and "yellow faces": reassessing ambivalence in Orwell's Burma". George Orwell Now. Ed. Richard Keeble. New York: Peter Lang. 2015. (Forthcoming)

## Presidency University

### Student Papers at Various Conferences:

2. **Agarwala R, Halder S.** (2014). "Interrogating Gender and Cultural Identities in M. Butterfly". Interdisciplinarity and English Literary Studies. The University of Burdwan. The University of Burdwan, Golap Bag. 17 December 2014.
3. **Agarwala R, Halder S.** (2015). "Re-reading Performance and Textuality in Death and the King's Horseman". Interdisciplinarity: Modes and Practices. Ramakrishna Mission Residential College (Autonomous). Ramakrishna Mission Residential College, Narendrapur. 20 April 2015.
4. **Begum A.** (2014). "Shakespeare in India: Appropriating the Cannon." Global Shakespeares Conference. Presidency University. 16 December, 2014
5. **Chakraborty A.** (2015). "Coleridge's Poetry in the 20th Century: Interpreting Coleridge's Poetic Theory through the songs of Iron Maiden and Pink Floyd." CSRL Conference. Presidency University, Kolkata. 6 February, 2015.
6. **Datta SM, Mukherjee U.** (2014). 'Travelling Travel': Reassessing Contemporary Travel Narratives". National Seminar 'Placing the Space: Facets and prospects of Travel Writing'. Aliah University. Kolkata, India. 25 September 2014.
7. **Datta SM, Mukherjee U.** (2015). 'Monstrous Childhoods': Frankenstein in conversation with The Fifth Child". The Centre for Studies in Romantic Literature (CSRL). Presidency University, Kolkata, India. 6 February 2015.
8. **Datta SM, Mukherjee U.** (2015). 'So sweet a changeling': The Indian Boy and the politics of representation in A Midsummer Night's Dream". Shakespeare Reconsidered- 25th University Grant Commission International Conference. Rabindra Bharati University. Kolkata, India. 20 March 2015.
9. **Gupta S.** (2015). "Silenced in Translation: Looking at Mahasweta Devi's Breast Stories translated by Gayatri Spivak." National Seminar on Dialect and Identity Crisis. Department of Hindi. Presidency University, Kolkata and Central Institute of Indian Languages, Mysore (MHRD, Government of India). Presidency University. 24 February 2015.
10. **Gupta S.** (2015). "Camera in Dérive: Representation of Kolkata in Suman Mukhopadhyay's Mahanagar@ Kolkata, an adaptation of Nabarun Bhattacharyya's short-stories." UGC assisted DSR (SAP-III) Phase-III Seminar on Connecting Texts: Literature, Theatre and Cine MA University of Calcutta. 25 March 2015
11. **Mukherjee J.** (2014). The Global Macbeth – Kurosawa's Throne of Blood and its cultural "Bag and Baggage". Global Shakespeares' Conference. Presidency University. 17 December 2014.
12. **Mukherjee R.** (2014). "We are the Victorians: Models of Femininity in Indian Mass Entertainers." Popular Culture and Comparative Literature: Indian Context. (7th Annual Debrupa Bal Memorial National Students' Seminar, 2014). Jadavpur University, Kolkata. 27 August 2014.
13. **Mukherjee U.** (2014). "Children and young people on social media: intersectionality and transnationalism". 'Children, young people and families in changing urban spaces' conference. University of Northampton. Northampton, UK. 4 September 2014.
14. **Mukherjee U.** (2014). "Childhoods in Contemporary India: a re-assessment". 'Everyday Life in Contemporary India' International Conference. University of Madras and University of Otago. University of Madras, India. 18 December 2014.
15. **Mukherjee U.** (2015). "Modernities and childhoods: a critique". International conference 'Fractious Modernities: The (dis)contents of the Now'. Centre for Advanced Study in English, Jadavpur University. Kolkata, India. 24 February 2015.

16. **Mukherjee U, Pradhan A.** (2015). 'The Self on the web': The homosocial and the 'textuality' of representations". 'Interdisciplinarity: Modes and Practices' seminar. Ramakrishna Mission Residential College. Narendrapur, India. 20 April 2015.

**Prizes/Awards:**

17. **Datta SM.** (2014). Poem ("A Lover, Who is About to Leave") published in anthology— Desde Hong Kong: Poets in conversation with Octavio Paz. Chameleon Press. Book launched in Hong Kong. October 2014.
18. **Datta SM.** (2014). Short story ("Story") Longlisted for Toto Creative Writing Awards-Short Fiction (English), 2015. Toto Funds the Arts. Bangalore. November 2014.
19. **Datta SM.** (2015). Poem ("Inconsequentiality") published in anthology—Inspired by My Museum. Sampad South Asian Arts and British Council India. Book launched at Kolkata Book Fair 2015. 8 February, 2015.
20. **Mukherjee U.** (2015). 'Inspired By My Museum' International poetry competition selected entry. Sampad South Asian arts, UK and British Council India. Kolkata International Book Fair. Kolkata, India. 7 February 2015.

- One of our undergraduate students, Utsa Mukherjee, was admitted directly into a PhD programme at the Royal Holloway, University of London after completion of the Bachelors at Presidency University.

**29. Awards / recognitions received at the national and international level by**

- Faculty:
- **Dr. Suddhaseel Sen:** Europe Center's Fall Graduate Student Grant Competition Travel Award, Stanford University, Residency, Cité Internationale des Arts, Paris (for Summer 2015)
- **Dr. Shuhita Bhattacharjee**
- Marcus Bach Award, Iowa. USA, 2014
- Stanley Award for International Research, University of Iowa, USA. 2013
- Robert L. Platzman Memorial Fellowship, University of Chicago, USA, 2013
- International Residency Seminar on 'Christianity, the Unity of Knowledge, and the Secularized Academy,' Lumen Christi Institute, University of Chicago, 2013
- Summer Fellowship, University of Iowa, 2013
- **Mahitosh Mandal**
  - Rajiv Gandhi National Fellowship, University Grants Commission, India (2011-2012)
  - Junior Research Fellowship, University Grants Commission, India (June 2011)
- Doctoral / post doctoral fellows
- Students (Annexure for student achievements)

**30. Seminars/ Conferences/Workshops organized and the source of funding (national / international) with details of outstanding participants, if any. (List in annexure)**

The department has organized at least ten major national and international level seminars/conferences/workshops featuring academics from across the globe. These events have been marked by enthusiastic student participation and have generated critical post-conference research endeavours.

## Presidency University

Date/Month	Topic	Source of Funding
28th August 2012	Professor Julian B. Lethbridge's (University Tubingen) talk on: Literature, Theology, Philosophy and Knowledge: fides quaerens intellectum	Presidency University
29 August 2012	Dr. Stefanie C. Lethbridge's (University of Feiburg) talk on: Popularizing Homer in the 21st Century : Making Myth Work	Presidency University
24 September, 2012	Dr. Mark Bernstein's (Director, Eastgate Systems) talk on: "The New Digital : The Nature of The Gothic And the Nature of computing"	Presidency University
24 September, 2012	Professor Amlan Dasgupta's (Jadavpur University, Dept. of English) talk on: Digital Humanities : Notes from The Dust Heap	Presidency University
24th September. 2012	Professor Moinak Biswas's (Jadavpur University, Dept. of Film Studies) talk on: Learning with images in The Digital World	Presidency University
24th September, 2012	Professor Sue Thomas's (De Montfort University) talk on "Transliteracy"	Presidency University
25 September, 2012	Dr. Simi Malhotra's (Jamia Millia University, Dept. of English) talk on: Doing Humanities in an Age of Impending Technological Singularity	Presidency University
25 September, 2012	Professor Barry Atkins' (University of Wales, Newport, Dept. of Film, Photography and Digital Media) talk on: Excessive Media : Approaching Videogames with Care	Presidency University
25 Spetember, 2012	Professor Saugata Bhaduri's (Jawaharlal Nehru University, Dept. of English) talk on: Issues and Challenges in Conducting Research on Computer Gaming	Presidency University
25 September, 2012	Dr. Souvik Mukherjee's (Presidency University, Dept. Of English) talk on: Reading Games and Playing Books : Videogames and Storytelling	Presidency University
25 September, 2012	Dr. Abhijit Gupta's (Jadavpur University, Dept. Of English) talk on: The Early Bengali Project : Issues and Challenges	Presidency University
25 September 2012	Mr. Mahitosh Mandal's (Presidency University, Dept. Of English) talk on: The Digital Culture : Man and the Machine	Presidency University
25 September 2012	Dr. Debaditya Bhattacharya's (Venkateshwara College, Delhi, Dept. Of English) talk on: A Sovereign Surrender?: Technology and the Death of the Knowing Subject	Presidency University
4 December 2012	Professor R P Raveendran's (Professor of English at School of Letters, Mahatma Gandhi University, Kerala) talk on: A General Overview of Indian Writing in English	Presidency University
17 December 2012	Dr. Kathryn Caccavaio's (Niagara County Community College, Dept. Of English, Adjunct) talk on: Black Writing	Presidency University
10 and 18 March, 2014	Annual Harendra Lal Basak Memorial Lecture by Professor Geraldine Forbes, Distinguished Teaching Professor, SUNY Oswego	Presidency University
25 February, 2014	'Digitising the Dutch Heritage in Bengal' Seminar	EmBAssy of Netherlands
13 February, 2014	"Literature and History: Interfaces" Seminar [Speakers: Professor Swapan Chakravorty of Jadavpur University and Gautam Bhadra, former Prof. of History at Calcutta University, and currently Tagore National Fellow Based at the National Library]	Presidency University

Date/Month	Topic	Source of Funding
7 February, 2014	Annual Conference of the Centre for Studies in Romantic Literature [Keynote Speaker: Nicholas Roe, University of St. Andrews]	Centre for Studies in Romantic Literature
November, 2013	Talk by Deirdre Coleman, Robert Wallace Chair in English and the Deputy Dean of Arts, University of Melbourne, on “Keats and the Vale of Tears”	Presidency University
16-17 Dec, 2014	“Global Shakespeares” Conference [Keynote Speaker: Jyotsna G. Singh, Professor of English, Michigan State University; Plenary speakers included Professor Malabika Sarkar, former Vice-Chancellor, Presidency University, Professor Sukanta Chaudhuri of Jadavpur University, Professor Shormishta Panja of Delhi University, and Professor Swapan Kumar Chakravorty of Jadavpur University]	Presidency University
21 Aug, 2014	Public Lecture: “Modernism and the Banality of Narrative” by Dr.Saikat Majumdar,	Presidency University
14 Oct, 2014	Public Lecture: “Vietnam War and its Literary After-effects” by Dr. Harish Mehta	Presidency University
28 Oct, 2015	Public Lecture: “Citizenship, Belonging, and Subversion: The Invention of Tradition in Culinary Fictions of Asian-North America” by Dr. Julie Mehta	Presidency University
6-7 Feb, 2015	Annual Conference of the Centre for Studies in Romantic Literature [Keynote Speaker: David Worrall, Nottingham Trent University]	Centre for Studies in Romantic Literature

### 31. Code of ethics for research followed by the departments

- The department follows a strict ethical code by ensuring awareness among and enforcing training for all undergraduate and postgraduate students. Plagiarism prevention sessions are introduced right at the undergraduate level through regular class and tutorial discussions, and is intensified at the postgraduate level through the Research Methodology course.
- Term paper submissions are now run through internationally acclaimed plagiarism-detection softwares like ‘Turnitin’.
- PhD applicants are screened rigorously for academic ethics during PhD interviews.
- Engaged and regular discussions with the faculty advisor are designed to ensure ethical academic conduct among research fellows.

### 32. Student profile programme-wise:

Year	Name of the programme	Applications received	Selected		Pass percentage	
			(wrto previous year results)			
			Male	Female	Male	Female
2015	UG	1115	8	27	100%	100%
	PG	850	14	19	100%	100%
2014	UG	2090	5	26	100%	100%
	PG	931	7	24	100%	100%
2013	UG	1983	12	20	100%	100%
	PG	628	9	20	100%	100%

## Presidency University

### 33. Diversity of students

Name of the programme (refer to question no. 4)	% of students from the same university	% of students from other universities within the State	% of students from universities outside the State	% of students from other countries
UG	80%	10%	10%	
PG	60%	40%		

### 34. How many students have cleared Civil Services and Defense Services examinations, NET, SET, GATE and other competitive examinations? Give details category-wise.

- NET/SET : 5 (2012)
- 7 (2011)

### 35. Student progression

Student progression	Percentage against enrolled
UG to PG	95% - 98%
PG to MPhil	N.A.
PG to PhD	15%
PhD to Post-Doctoral	N.A.
Employed	
• Campus selection	40%
• Other than campus recruitment	60%
Entrepreneurs	

### 36. Diversity of staff

Department/ School	% of faculty from the same university	% of faculty from other universities within the State	% of faculty from universities outside the State	% of faculty from other countries
Undergraduate	20%(erstwhile Presidency College)	70%	10%	None
Postgraduate	20%(erstwhile Presidency College)	60%	10%	10%
M.Phil	None	30%	10%	None
Ph.D	None	10%	None	60%

### 37. Number of faculty who were awarded MPhil, PhD, DSc and DLitt during the assessment period

- MPhil: 2
- PhD: 1

### 38. Present details of departmental infrastructural facilities with regard to

- a) Library : The department has a functional Seminar Library
- b) Internet facilities for staff and students : Wifi facility available for all Faculty, Staff, and Students on-campus

- c) Total number of class rooms: 4
- d) Class rooms with ICT facility: 1
- e) Students' laboratories
- f) Research laboratories

**39. List of doctoral, post-doctoral students and Research Associates**

- a) from the host institution/university : 6
- b) from other institutions/universities : None

**40. Number of post graduate students getting financial assistance from the university.**

- Currently we have no post graduate students who receive financial assistance from the University.

**41. Was any need assessment exercise undertaken before the development of new programme(s)? If so, highlight the methodology.**

- At the point of transition from Presidency College to Presidency University, the syllabus was overhauled in keeping with emerging Global syllabi and research trends. The department regularly evaluates existing syllabi and introduces new topics both formally and informally to cater to student interests and needs, The department also plans to offer a wider variety of optional courses with increasing faculty strength, especially including specialized subjects like Detective Fiction, Rise of the Novel, Crime Fiction, Religion and Literature etc.

**42. Does the department obtain feedback from**

- a. faculty on curriculum as well as teaching-learning-evaluation? If yes, how does the department utilize the feedback?
  - The department continuously reevaluates its strengths and weaknesses in terms of the teaching-learning process. New ideas are debated in departmental meetings and changes are incorporated accordingly, with permission from concerned authorities.
- b. students on staff, curriculum and teaching-learning-evaluation and how does the department utilize the feedback?
  - The students are supplied with feedback forms where they can assess both the course content and the teaching-learning process. The department goes through the feedback with care and makes necessary changes.
- c. alumni and employers on the programmes offered and how does the department utilize the feedback?

**43. List the distinguished alumni of the department (maximum 10)**

- Alumni of the erstwhile Presidency College: The Department has produced several notable thinkers and critics like Gayatri Chakravorty Spivak, Ahmed Ali, British Council Visiting Professor of English, The National Central University, Nanking, Jasodhara Bagchi, Former Chairperson, West Bengal Women's Commission, Calcutta, Swapan Kumar Chakravorty, Rabindranath Tagore Distinguished Professor of Humanities, Presidency University, Kolkata, Sukanta Chaudhuri, Emeritus-Professor of English, Jadavpur University, Kolkata, Supriya Chaudhuri, Professor Emerita of English, Jadavpur University, Kolkata, Nabaneeta Dev Sen, Former Professor of Comparative Literature, Jadavpur University, Kolkata, Peary Charan Sarkar, Former Headmaster, Hare School, Kolkata. Distinguished alumni also include Rajendra Prasad, former President of India, Syama Prasad Mookerjee and Humayun Kabir.

**44. Give details of student enrichment programmes (special lectures / workshops / seminar) involving external experts. (List in annexure)**

- The students are regularly exposed to internal-level conferences, workshops, and seminars where they get to interact with eminent speakers from across the globe and the country which culminates in student-led engaging scholarly projects.

**45. List the teaching methods adopted by the faculty for different programmes.**

- The faculty adopts several innovative teaching approaches, not only to teach the canon but also to cover various interdisciplinary subjects (which include a study of the other arts such as operas, plays, paintings, films, sculpture).
- Our teaching-learning process also involves a deep sensitization to issues such as gender, alternative sexualities, class, caste, etc.
- As a department, we value collaborative and conversational classrooms that challenge traditional pedagogical hierarchies.
- The research projects undertaken by the department ensure the engaged participation of students.

**46. How does the department ensure that programme objectives are constantly met and learning outcomes are monitored?**

1. We ensure both formal and informal channels of feedback:
  - The department consists of mostly young and focused faculty who share an excellent pedagogical rapport with the students.
  - The department has a regular monthly student-teacher meeting to address all student concerns, academic or otherwise. The BoS periodically reviews these problems arising from courses as reported by students. The issues are discussed with external experts in the BoS. The aim is to ensure that the students see themselves as stakeholders in the reform of the syllabus.
2. The syllabus is so framed that there is a wide variety of items on offer so that rote learning and prepared answers are discouraged.
3. Students are exposed to research methods and extensive lectures by external experts starting at the undergraduate level.

**47. Highlight the participation of students and faculty in extension activities.**

**48. Give details of “beyond syllabus scholarly activities” of the department.**

- The students actively participate in the Literary Society, the Spook Society, the Debating Society. A large number of our students have been awarded for individual state and national-level competitions in extra-curricular activities. Some students are actively involved in making amateur short films and organizing theatre festivals.
- The faculty is also frequently involved in advising on these endeavours and judging events both inside and outside the university. The faculty also contributes editorials and articles to leading newspapers and magazines on contemporary social/cultural/literary issues. They are frequently invited by the visual media to share their opinions on various social issues and policy matters. The faculty believes in spearheading new and radical modes of social thought to ensure equity and justice.

**49. State whether the programme/ department is accredited/ graded by other agencies? If yes, give details. No**



**50. Briefly highlight the contributions of the department in generating new knowledge, Basic or applied.**

The department has consistently generated internationally acclaimed research output and organized university-level scholarly activities in the key departmental thrust areas. These areas as follows:

- Nineteenth-Century Studies (including Victorian Studies) is a central area of departmental focus that covers many aspects of literature and culture in the long nineteenth-century across continents.
- Digital Humanities has been an important research area for the department with several internal collaborations and student-led projects.
- The other arts, including music, film, opera, and the fine arts, are areas of departmental specialization with regular courses being offered in the area.
- Dalit Studies has emerged as a departmental interest area with “young researchers’ conferences” that aim to bring nationwide scholars together.
- Post-colonial Studies is a crucial area of departmental engagement, both within the classroom and outside, inspiring several student research projects.
- Gender Studies is a shared research passion for all departmental faculty in its various literary, theoretical, and sociological aspects. This has also inspired many student-driven gender-themed events and ‘gender awareness months’ on the campus.

**51. Detail five major Strengths, Weaknesses, Opportunities and Challenges (SWOC) of the department.**

**Our strengths include:**

- A largely young, vibrant, and motivated faculty
- Internationally-connected research endeavours
- New and cutting-edge areas of specialization
- Student-teaching camaraderie and collaborative teaching-learning ventures

**Some of the weaknesses include:**

- Lack of infrastructural support
- Low faculty strength
- Lack of ICT-enabled classrooms

**Challenges that we face:**

- Require optimization of research-teaching Balance
- More diverse faculty research areas
- Development of a constant job market for graduates
- Limited research funding for faculty

**52. Future plans of the department.**

- We plan to apply for an SAP programme in an area of departmental research specialization. We also wish to explore possibilities of research and teaching collaborations with institutions that have signed MoUs with Presidency University.

ANNEXURES

1. List of Research Projects in Last four Years

Sl. No	Year of Initiation	Year of Completion	Funding agency	PI	Title	Fund Sanctioned	Fund Received	Completed / ongoing
1	2013	2014	The Embassy of the Netherlands	Dr. S. Mukherjee	‘Digitising the Dutch Heritage in Bengal’ project [‘The Dutch Cemeteries in Bengal’ digital database]		Rs. 40,000	Completed
2	2014	Ongoing [Projected Completion: 2016]	The UGC and British Council, as part of the UK-India Research Initiative (UKIERI) Partners: The University of St. Andrews, Scotland; the Depts. of History and Philosophy, Presidency University	Dr. S. Mukherjee (co-PI from Presidency University)	UKIERI-funded Research Project: ‘Narratives of Migration between Scotland and England’		Rs. 26,00,000	Ongoing
3			Balzan Foundation	Dr. Suddhaseel Sen	Research Visitorship, “Towards a Global History of Music, cond. Prof. Reinhard Strohm”			
4			Orient Blackswan	Dr. Sumit Chakrabarti	Series Editor, Theory Series			
6	2014	2014	University of Iowa	Dr. Shuhita Bhatta charjee	Marcus Bach Fellowship for Projects on Religious Studies	Rs. 6, 24,000	Rs. 6, 24,000	Completed

2. List of Seminars and Conferences Organized in last three years

Date/Month	Topic	Source of Funding
28th August 2012	Professor Julian B. Lethbridge's (University Tubingen) talk on: Literature, Theology, Philosophy and Knowledge: fides quaerens intellectum	Presidency University
29 August 2012	Dr. Stefanie C. Lethbridge's (University of Feiburg) talk on: Popularizing Homer in the 21st Century : Making Myth Work	Presidency University
24 September, 2012	Dr. Mark Bernstein's (Director, Eastgate Systems) talk on: "The New Digital : The Nature of The Gothic And the Nature of computing"	Presidency University
24 September, 2012	Professor Amlan Dasgupta's (Jadavpur University, Dept. of English) talk on: Digital Humanities : Notes from The Dust Heap	Presidency University
24th September. 2012	Professor Moinak Biswas's (Jadavpur University, Dept. of Film Studies) talk on: Learning with images in The Digital World	Presidency University
24th September, 2012	Professor Sue Thomas's (De Montfort University) talk on "Transliteracy"	Presidency University
25 September, 2012	Dr. Simi Malhotra's (Jamia Millia University, Dept. of English) talk on: Doing Humanities in an Age of Impending Technological Singularity	Presidency University
25 September, 2012	Professor Barry Atkins' (University of Wales, Newport, Dept. of Film, Photography and Digital Media) talk on: Excessive Media : Approaching Videogames with Care	Presidency University
25 Spetember, 2012	Professor Saugata Bhaduri's (Jawaharlal Nehru University, Dept. of English) talk on: Issues and Challenges in Conducting Research on Computer Gaming	Presidency University
25 September, 2012	Dr. Souvik Mukherjee's (Presidency University, Dept. Of English) talk on: Reading Games and Playing Books : Videogames and Storytelling	Presidency University
25 September, 2012	Dr. Abhijit Gupta's (Jadavpur University, Dept. Of English) talk on: The Early Bengali Project : Issues and Challenges	Presidency University
25 September 2012	Mr. Mahitosh Mandal's (Presidency University, Dept. Of English) talk on: The Digital Culture : Man and the Machine	Presidency University
25 September 2012	Dr. Debadyta Bhattacharya's (Venkateshwara College, Delhi, Dept. Of English) talk on: A Sovereign Surrender?: Technology and the Death of the Knowing Subject	Presidency University
4 December 2012	Professor R P Raveendran's (Professor of English at School of Letters, Mahatma Gandhi University, Kerala) talk on: A General Overview of Indian Writing in English	Presidency University
17 December 2012	Dr. Kathryn Caccavaio's (Niagara County Community College, Dept. Of English, Adjunct) talk on: Black Writing	Presidency University
10 and 18 March, 2014	Annual Harendra Lal Basak Memorial Lecture by Professor Geraldine Forbes, Distinguished Teaching Professor, SUNY Oswego	Presidency University
25 February, 2014	'Digitising the Dutch Heritage in Bengal' Seminar	Embassy of Netherlands
13 February, 2014	"Literature and History: Interfaces" Seminar [Speakers: Professor Swapan Chakravorty of Jadavpur University and Gautam Bhadra, former Prof. of History at Calcutta University, and currently Tagore National Fellow Based at the National Library]	Presidency University

## Presidency University

Date/Month	Topic	Source of Funding
7 February, 2014	Annual Conference of the Centre for Studies in Romantic Literature [Keynote Speaker: Nicholas Roe, University of St. Andrews]	Centre for Studies in Romantic Literature
November, 2013	Talk by Deirdre Coleman, Robert Wallace Chair in English and the Deputy Dean of Arts, University of Melbourne, on “Keats and the Vale of Tears”	Presidency University
16-17 Dec, 2014	“Global Shakespeares” Conference [Keynote Speaker: Jyotsna G. Singh, Professor of English, Michigan State University; Plenary speakers included Professor Malabika Sarkar, former Vice-Chancellor, Presidency University, Professor Sukanta Chaudhuri of Jadavpur University, Professor Shormishta Panja of Delhi University, and Professor Swapan Kumar Chakravorty of Jadavpur University]	Presidency University
21 Aug, 2014	Public Lecture: “Modernism and the Banality of Narrative” by Dr. Saikat Majumdar,	Presidency University
14 Oct, 2014	Public Lecture: “Vietnam War and its Literary After-effects” by Dr. Harish Mehta	Presidency University
28 Oct, 2015	Public Lecture: “Citizenship, Belonging, and Subversion: The Invention of Tradition in Culinary Fictions of Asian-North America” by Dr. Julie Mehta	Presidency University
6-7 Feb, 2015	Annual Conference of the Centre for Studies in Romantic Literature [Keynote Speaker: David Worrall, Nottingham Trent University]	Centre for Studies in Romantic Literature

### 3. Seminar workshops attended by teachers of the Department in last three years (chronologically)

Title of Seminar	Date	Organized by	Status (National/International)	Role as Resource person /Invited Speaker
<b>Name of the Teacher: Banerjee, P.</b>				
“Border Crossings and Their Discontents: Experiences of ‘Pornography of Poverty’ in India.”	May 26th, 2014	Rhetorical Society of America, USA.	International	Invited Speaker
““Nonfiction is wrenched out by the aching broken world I wake up to’: The Politics of Gender and Postcoloniality in Arundhati Roy’s Essays.”	2 April 2014	Pontificia Universidad Javeriana, Colombia		Invited Speaker
“Perceptions of Modern Indian Women in Indo-Anglian Literature.”	20 March 2014	SUNY, Oswego.		Invited Speaker
<b>Name of the Teacher: Bhattacharjee, S.</b>				
“Passionate Idols and Proliferating Objects: Consumption and Materialization in Richard Marsh,” Readers, Purveyors, Creators, and Users: Studying Victorian Print Consumption in 2014	16-17 June 2014	National University of Ireland, Galway	International	Invited Speaker

Title of Seminar	Date	Organized by	Status (National/International)	Role as Resource person /Invited Speaker
“The problem of Detection in a Crisis of Faith: The Case of Marsh and Anstey,” Symposium 2014 on Detecting Objects: The Material Item and Detective Fiction ,	9 June, 2014	University of Portsmouth, UK	International	Invited Speaker
“The Lajjavati, the Lady, and the Literature: Womanliness, Sexuality, and Purity in Nineteenth- Century Indian Periodicals,” Print Culture and Gender in the British Empire	5 June, 2014	University of Warwick, UK	International	Invited Speaker
“Magical Deity and Soulless Object: The Body, The Thing, and the Occult in the Novels of Richard Marsh” Anxious Forms: Bodies in Crisis in Victorian Literature and Culture	22 August 2014	University of Glasgow, Scotland	International	Invited Speaker
Popular Culture, Evolving Perception and Magical Realities, ‘The Mysteries at Our Own Doors’ Victorians Institute Journal (VIJ) Conference	25 Oct 2014	Winthrop University, USA	International	Invited Speaker
“The Idol’s Invasion and the Victorian ‘Crisis of Faith,’” ‘Victorian Sense and the Senses’ Midwest Victorian Studies Association Conference	2 May 2015	University of Iowa, USA	International	Invited Speaker
<b>Name of the Teacher: Chakrabarti, S.</b>				
“Parameters and Challenges to Research and the Global Scene”	16th June, 2014	Rabindra Bharati University		Invited Lecture as Resource Person at the Research Week
“Postcolonialism” and “Film and Literature”	11th and 12th June 2014	Vidyasagar University		Invited Lecture as Resource Person at the PhD Coursework
“Postcolonialism and Conrad’s Heart of Darkness”	May, 2014	Rabindra Bharati University		Special Lecture as Resource Person
Six lectures on “Diasporic Literature and Theory.”	27th-28th Feb, 2014	Vidyasagar University		Invited Lectures (MHRD, Govt. of India, UGC Merged Scheme) as Visiting Professor
‘Nineteenth Century Cultural Anxieties in Rajnarayan Basu’s Sekal Aar Ekaal: Reading Empire, Empirical Reading,’ CULTHIST ‘13: Symbols in the History of Culture	23-25 October, 2013	CULTHIST ‘13: Symbols in the History of Culture, Turkey, Istanbul.		Invited Speaker

Title of Seminar	Date	Organized by	Status (National/International)	Role as Resource person /Invited Speaker
Keynote Address	7-8 Nov, 2014	UGC Sponsored National Seminar on Representation of the Marginalized in Indian Writings in English at the Department of English, Falakata College		Invited Speaker
“Space of Deprivation: The Nineteenth Century Bengali Kerani in the Bhadrakol Milieu of Kolkata” Conference on Language and Literature in Colonial and Postcolonial Contexts	3-7 Sept, 2014	University of Bremen, Germany		Invited Speaker
“Bodies of Discontent: Time, Space, and the Nineteenth Century Bengali Kerani” Conference on Time, Space and the Body	7-9 Sept, 2014	Mansfield College, University of Oxford		Invited Speaker
Panel Chair at the national seminar on ‘Placing the Space: Facets and Prospects of Travel Writing’	24-25 Sept, 2014	Aliah University		Invited Speaker
Talk as Resource Person at the PhD Coursework programme of the Department of English and Culture Studies, University of Burdwan	31 Oct, 2014	Department of English and Culture Studies, University of Burdwan		Resource Person
“The Nineteenth Century Calcutta Kerani: Difficult Metonymies, Ambivalent Presences” Re-Imagining Theory: Towards New Horizons in the Humanities and the Social Sciences	21-24 Dec, 2014	The Forum for Contemporary Theory		Invited Speaker
Talk as Resource Person at the PhD Coursework programme	24 Nov, 2014	Department of English and Culture Studies, University of Burdwan		Resource Person
Talk as Resource Person at the TEQIP course Developing and Teaching Literary Theory in 21st Century Academia	8-9 Jan, 2015	Department of Humanities and Social Sciences, IIT, Guwahati		Invited Speaker
Talk as Resource Person at the National Seminar Theory and Teaching of English	20-21 Jan, 2015	Department of English and Modern European Languages, University of Allahabad		Invited Speaker

Title of Seminar	Date	Organized by	Status (National/International)	Role as Resource person /Invited Speaker
Resource Person at the annual seminar: "The Death of Sweet Jargonizing: What After Theory"	24 March, 2015	Department of English, Rabindra Bharati University		Invited Speaker
"Books in the Age of Digital Media"	Nov 2015	Kharagpur College		Invited Speaker
"The Problem in the Theoretical," Resource Person, Refresher Course at Sambalpur University (Four Lectures)	Sept 2015	Sambalpur University		Invited Speaker
"The City of Refuge and Refusing the City: Retracing Intimacy in Mourid Barghouti's I Saw Ramallah"	May 2015	Conference on Love, Lust and Longing: Retracing Intimacy at Barcelona, Spain		Invited Speaker
Invited lecture series on "British Imperialism and Nineteenth Century Bengal: Curious Encounters"	May 2015	University of Lodz, Poland		Invited Speaker
<b>Name of the Teacher: Das, K.</b>				
"The Marriage of Fantasy and Reality in Charles Kingsley's Watebabies' At UGC Sponsored National Seminar organised by Vidyasagar University, Midnapur	February 2012	Vidyasagar University, Midnapur		Invited Speaker
"We will rebuild worlds": the parichi voices in Tamil Dalit Literature" UGC Sponsored National Seminar, Vidyasagar University, Midnapur	December 2012	Vidyasagar University, Midnapur		
"Bhadralok's celebration of a Chotolok's story: the curious case of Monoranjan Byapari and the politics of caste and culture in twenty-first century Bengal," Critical Approaches to South Asian Studies Workshop (CASAW)	30 January, 2014	York Center for Asia Research, York University, Toronto, Canada		Invited Speaker
"Liberal celebration of Monoranjan Byapari: A possible Dalit and subaltern perspective," Cultures of Margins	5 February, 2014	Department of English, Jadavpur University		Invited Speaker
"Imagining Bauriland: Dalit Utopia(?) in Twenty First Century West Bengal." Contemporary Approaches to the Analysis of Dalit Literature	24 June, 2014	Nottingham Trent University, UK		Invited Speaker
"Reading a post-liberal critique of Dalit struggle from Dalit Historiographical perspective," National Seminar on Reconstructing/Deconstructing the Canon: Alternative Cultures, Alternative Literatures	19 March, 2014	Department of English, Vidyasagar University		Invited Speaker

**Presidency University**

<b>Title of Seminar</b>	<b>Date</b>	<b>Organized by</b>	<b>Status (National/International)</b>	<b>Role as Resource person /Invited Speaker</b>
“(Im) possibility of Translating Identities: Translator, Dalit Litterateur and the ‘Truth’ of Dalit Experience”	29th June, 2015	British Centre for Literary Translation, University of East Anglia, Norwich, UK		Invited Speaker
<b>Name of the Teacher: Dutta, S.</b>				
“Public Spaces, Private Destinies: The Novels of Thomas Hardy” At UGC Sponsored Refresher Course on ‘Fictional Spaces : Texts and Contexts’, organised by the Department of English, Jadavpur University	December, 2012	Department of English, Jadavpur University		
Chaired session at three-day international conference on “The Dickens World : Post-Imperial Readings”, Organised by the Department of English, Jadavpur University and the ‘Centre for Victorian Studies’, Jadavpur University (supported by the British Council)	18th December, 2012	Organised by the Department of English, Jadavpur University and the ‘Centre for Victorian Studies’, Jadavpur University (supported by the British Council)		
Acted as Resource Person at a ‘Group Discussion’ session In Refresher Course on ‘20th Century Theory and Praxis,’ organised by the Department of English, University of Calcutta	December 2012	Department of English, University of Calcutta		
<b>Name of the Teacher: Mandal M.</b>				
“Sri Ramakrishna and the Concept of Truth” At the International conference on Sri Ramakrishna’s Ideas and Our Times organised by Ramakrishna Mission Vidyamandira, Belur.	January 2012	Ramakrishna Mission Vidyamandira, Belur.		Invited Speaker
‘Digital Humanities and Man’, At the Digital Humanities in India Conference organised by Presidency University, Kolkata	September 2012	Presidency University, Kolkata		
“The world as a single nest”: The Post-colonial, the European Critical Dialectic, and Beyond’ At DRS CU Seminar on The Post Postcolonial :Theory and Text.	February 2012	DRS, CU		Invited Speaker
“The eyes a man could drown in””: Filmic Gestures in the Novels of John Fowles’ At the National Seminar on Genre organised by the Department of English, Krishnagar Govt. College	January 2012	Department of English, Krishnagar Govt. College		Invited Speaker



Title of Seminar	Date	Organized by	Status (National/International)	Role as Resource person /Invited Speaker
'Engaging the "Criminal Other" in Habib Tanvir's Plays' At UGC sponsored National Seminar on 'Contemporary Trends in Indian Drama' organised by Rishi Bankim Chandra College, Naihati, in collaboration with West Bengal State University, Barasat.	March 2012	Rishi Bankim Chandra College, Naihati, in collaboration with West Bengal State University, Barasat		Invited Speaker
"Eyes a man could drown in": Disguise and Falsehood in Fowles" Marginalized Mainstream Conference	28-29 Nov, 2014	Institute of English Studies, University of London, UK		Invited Speaker
<b>Name of the Teacher: Mohan, A.</b>				
"Minute Modernisms"	April 11, 2014	South Calcutta Girls College, Kolkata	International	Invited Speaker
Plenary Address: "Adaptive Modernities: Geoffrey Bawa and Building 'Sri Lanka-ness.'" Fractious Modernities: The (dis)contents of the now.	Feb 26, 2015	Centre for Advanced Studies, Jadavpur University, Kolkata.		
'Ceylon in the Modernist Imagination: The Special Case of Leonard Woolf'	1 Oct, 2014	Dept. of English and Centre for South Asia, Stanford University, USA		Invited Speaker
"Anger, Civility, and Ethical Choice in the Anthropocene"	15 Sept, 2014	Department of Political Science, Presidency University, Kolkata		Invited Speaker
"Michel Foucault and the Enlightenment"	30 Aug, 2014	Department of English, Jadavpur University, Kolkata		Invited Speaker
<b>Name of the Teacher: Mukherjee A.S.</b>				
Roundtable on "Relevance of Shakespeare in the classroom." Launch of the Phillip Weller Shakespeare Editions by Orient Blackswan Publishers. Kolkata.	16 Feb, 2015	Orient Blackswan Publishers. Kolkata.		Invited Speaker
"Finding the Indian in A Midsummer Night's Dream" Global Shakespeares Conference	Dec 16-17, 2014	Presidency University, Kolkata, India		Invited Speaker
Convenor of Global Shakespeares Conference, Presidency University,	Dec 16-17, 2014.	Presidency University, Kolkata, India		Invited Speaker
<b>Name of the Teacher: Mukherjee, S.</b>				
The keynote address on 'Videogames and Digital Humanities' At Venkateshwara College, Delhi University.	February 2012	Venkateshwara College, Delhi University		

Title of Seminar	Date	Organized by	Status (National/International)	Role as Resource person /Invited Speaker
'Videogames as Paratexts' In the SHARP Conference in Dublin.	May 2012	SHARP Conference in Dublin		
'Digital Humanities or What You Will' At the MARG Humanities Conference, New Delhi	August 2012	MARG Humanities Conference, New Delhi		
'Videogames as "Minor Literature' At the Digital Humanities in India Conference organised by Presidency University, Kolkata	September 2012	Presidency University, Kolkata		
'Videogames And Narratives' At NASSCOM Game Development Conference, Pune	October 2012	NASSCOM Game Development Conference, Pune		
"Digitising Memories and Digital Monuments: A Digital Humanities Approach to Heritage Preservation"	Feb 2014	'The Dutch in Bengal' Conference, Presidency University, Kolkata		Invited Speaker
"Where in the World Is Indian Videogaming?" Keynote address at the 'Gaming across Cultures' Conference	January 2014	Jawaharlal Nehru University, New Delhi		Invited Speaker
Keynote Address: "Press F6 to Reload: the Past, Present and Future of Indian Videogaming"	Oct 2014	Khoj Artist's Workshop, New Delhi		Invited Speaker
'India' in the 'Videogames around the World' panel, Digital Games Research Association Conference 2015	May 2015	Leuphana University, Luneberg, Germany		Invited Speaker
"Videogames and Slavery," Digital Games Research Association Conference 2015	May 2015	Leuphana University, Luneberg, Germany		Invited Speaker
"Videogames as Minor Literature," Digital Games Research Association Conference 2015	May 2015	Leuphana University, Luneberg, Germany		Invited Speaker
"Scottish Cemeteries in Bengal"	April 2015	University of St. Andrews, Scotland		Invited Speaker
"Digitising Memories: The Scottish Cemeteries in Bengal DataBase"	Jan 2015	UK-India Research Initiative 'Narratives of Migration' Conference, Presidency University, Kolkata.		Invited Speaker
'What's in a Game: Shakespeare in Videogames.	Dec 2014	'Global Shakespeares Conference, Presidency University, Kolkata		Invited Speaker

Title of Seminar	Date	Organized by	Status (National/International)	Role as Resource person /Invited Speaker
‘Playing Subaltern: Videogames and Post-colonialism’. Meaningful Play Conference, Michigan State University	Oct 2014	Michigan State University, East Lansing, Michigan		Invited Speaker
‘Gamification’ and ‘Videogames and Storytelling’	Date?	Indian Institute of Management, Kolkata		Invited Speaker
<b>Name of the Teacher: Ray, A.</b>				
“Myths and Icons in Satyajit Ray’s Science Fantasy Stories ‘Professor Shonku and U. F. O.’ and ‘The Unicorn Expedition’” The Asian Conference on Arts and Cultures 2014	12-13 June 2014	Srinakharinwirot University, Bangkok, Thailand		Invited Speaker
“The Equation of Science and Art in Satyajit Ray’s Short Stories ‘Professor Shonku and the Cochabamban Cave’ and ‘Professor Shonku and the Box from Baghdad’”	17-18 March, 2015	International Conference on Social Sciences and Humanities - ICSSH 2015, Colombo		Invited Speaker
“Japan-India Bonding in the Bengali Short Science Fiction/Fantasy Stories by Satyajit Ray”	12 Dec, 2015	4th International Congress of Bengal Studies, at Tokyo University of Foreign Studies		Invited Speaker
<b>Name of the Teacher: Sen, S.</b>				
“Theorizing Music Across Cultures: Ethnomusicological and Historical-Musicological Perspectives”	June 2014	King’s College, London		Invited Speaker
“Carl Maria von Weber and Exoticism in Romantic Music”	7 Feb 2014	Centre for Studies in Romantic Literature Seminar, Presidency University		Invited Speaker
“Tracing Musical Cosmopolitanism in 20th-Century Bengal: The Case of “Baa-jei Koruno Shurey”	14 Nov 2013	Society for Ethnomusicology, Indianapolis, Indiana, USA		Invited Speaker
“Shakespeare and Verdi”	25 Oct 2013	School of Language and Linguistics and Renaissance Resource Centre, Jadavpur University		Invited Speaker
“Challenging Stereotypes across Race and Religion: Ira Aldridge and Giuseppe Verdi as Interpreters of Shakespeare’s Venetian Plays”	15 Jan 2013	Jadavpur University Society for American Studies, Kolkata, India		Invited Speaker

Title of Seminar	Date	Organized by	Status (National/International)	Role as Resource person /Invited Speaker
“World War I and the Reception of Jazz in Europe” Conference on War and Creativity: World War I and American Literature, Art and Culture.	March, 2015	Jadavpur University, Kolkata		Invited Speaker
Problematizing Authenticity: Translation, Transculturation and Cultural Self-Fashioning. Conference on Translating Culture: Society, History, Politics.	March, 2015	Kolkata, West Bengal State University		Invited Speaker
Cross-Cultural Exchanges and the Future of ‘Indian’ Music: Perspectives from Bengal and Britain in the Early Twentieth Century. A Annual International Conference of the Indian Musicological Society.	Jan 2015	National Center for the Performing Arts, Mumbai		Invited Speaker
New Cultures, New Perspectives: Adaptation Theory and the Study of Global Shakespeares. International Global Shakespeares Conference.	Dec, 2014	Presidency University, Kolkata	International	Invited Speaker
“Problematizing Authenticity: Translation, Transculturation and Cultural Self-Fashioning.” International Conference on “Translating Culture: Society, History, Politics”	2015	West Bengal State University.		Invited Speaker
“World War I and the Reception of Jazz in Europe.” Seminar on “War and Creativity: World War I and American Literature, Art and Culture”	2015	Jadavpur University Society for American Studies, Kolkata		Invited Speaker

**4. List of Publications in papers ( peer-reviewed only), Books, Monographs, Last Four Years (Year wise and alphabetically)**

**2012**

**Bandyopadhyay, D.** (2012) New Reading of Ruskin Bond’s Supernatural Tales. In : Krstovic, J. (Editor) Children’s Literature Review, Vol. 171, Gale Cengage : New York (USA), p 44 – 55.

**Bandyopadhyay, D.** (2012) What Cost Abjection for the sake of the Nation?, In : Krstovic, J. (Editor) Children’s Literary Review, Vol. 171, Gale Cengage : New York (USA), p 66 – 76.

**Bandyopadhyay, D.** (2012) “Whispering in the Dark”: A Fantastic Quest for Identity, In : Krstovic, J. (Editor) Children’s Literary Review, Vol. 171, Gale Cengage : New York (USA), p 77 – 87.

**Book**

**Bandyopadhyay D.** (2012) Locating the Anglo-Indian Self In Ruskin Bond : A Postcolonial Review (Revised Indian Reprint). Anthem Press, New Delhi, 170 pp.

**Mandal M.** (2012) Modes of Negation in R. Parthasarathy’s Rough Passage. In: Mitra, Z. (Editor) Indian Poetry in English : Critical Essays. PHI Learning Private Limited: New Delhi, p. 314-321.

**Mukherjee, S.** (2012) Through the Looking Glass, Darkly : Reading Alice in the Videogame, In : Aligarh Journal of Linguistics, vol. 2.1-2. Aligarh University Press, Aligarh.

**Mukherjee, S.** (2012) Ego Shooting in Chernobyl: Identity and Subject(s) in the S.T.A.L.K.E.R Games, In: Fromme, J. And Unger, A. (Editors), Computer Games And New Media Cultures : A Handbook of Digital Game Studies, Springer-Verlag:New York, LLC, p.219-233.

**Mukherjee, S.** (2012) India, In : Wolf, M. (Editor) Encyclopedia of Video Games :L The Culture, Technology, and Art of Gaming, ABC-CLIO: Santa Barbara.

**Mukherjee, S.** (2012) Sherlock Holmes Reloaded : Holmes, Videogames and Multiplicity, In: Wynne, C. and Vanacker, S. (Editor) Conan Doyle and Sherlock Holmes, Basingstoke: Palgrave Macmillan.

### Book

**Mandal, M. And Suparnananda, S.** (2012) Swami Lokeshwarananda : The Person and Personality. Narendrapur Ramkrishna Mission Ashram Praktani, Narendrapur, 52pp.

### 2013

**Dutta, S. (ed).** The Expanding Universe: Essays on Science and Literature in the Nineteenth Century. (Forthcoming)

**Banerjee, P.** Why so much blood?" Narratives of Violence Against Women in Tripura" Economic and Political Weekly: Special Issue on Gender. (Forthcoming)

**Chakrabarti, S.** "Scattered Reflections on Exile: A Critique of Nussbaum's Cosmopolitanism and Derrida's 'City of Refuge'" in The Visva-Bharati Quarterly, Vol.22, Numbers 3&4, Oct. 2013 -Mar. 2014, eds. Tapati Mukhopadhyay and Amrit Sen. (Santiniketan: Visva Bharati, 2014) pp 32-41.

**Chakrabarti, S.** "Amitav Ghosh qua Storiographer: Some Thoughts on Nation and Race" in T. Ghosh and P. Bhattacharya eds. In Pursuit of Amitav Ghosh: Some Recent Readings (New Delhi: Orient Blackswan, 2013), pp 86-100.

**Chakrabarti, S.** "In Conversation with Joy Goswami." Joy Goswami: Selected Poems, Artists and Writers Series (Nebraska: Whale and Star Press, 2013), pp. 89-99.

**Chakrabarti, S.** and Krystyna Kujawinska-Courtney, Izabella Penier. Eds. The Post-Marked World: Theory and Practice

**Mandal, M** and Bhattacharjee, A. (In press). Revisiting Rabindranath and His Santiniketan: The Epitome of Joy and Peace. Tagore Foundation: New Delhi.

**Mandal, M.** (In press) "Stories that are fun and bring about change too": Reception and Literariness of Chetan Bhagat's Works', Indian Fiction in English: Mapping the Contemporary Literary Landscape, eds. Himadri Lahiri, et al. in the 21st Century. (Newcastle: Cambridge Scholars, 2013)

**Das, K.** Fourth Person in Jaydeep Sarangi edited anthology of Monohar Mouli Biswas' poems-Wheel Will Turn. Cyber wit Publications. India. (ISBN-13: 978-8192818771)Sajal K. Bhattacharya et al. Creative Books, New Delhi.

**Mandal, M. and Maity, D.** (In press) 'The Magic Ring Found and Lost: Divakaruni's Arranged Marriage and the Problems of Representation'. Indian Fiction in English: Mapping the Contemporary Literary Landscape, eds. Himadri Lahiri, Sajal K. Bhattacharya et al. Creative Books, New Delhi.

**Mandal M.** (2013) "Sri Risakrishna and the Concept of Truth," Sri Risakrishna's Ideas and Our Times, eds. Swarup Roy et al. Belur Math, Howrah, pp. 353-360.

**Mukherjee, S.** 'Videogames in India' in Videogames across the World ed. By Mark J.P. Wolf (New York: Palgrave Macmillan) (forthcoming)

**2014**

**Banerjee, P.** "Mobile Women and inter/National Narratives: The Case of Gertrude Hudson and Krishnabhabini Das" in The "Other" Universe: An Anthology of Women's Studies. Eds. Aparna Bandyopadhyaya and Krishna Dasgupta. Setu Prakashani, and Women's Studies Centre, Lady Brabourne College, Kolkata. (Forthcoming, October 2014)

**Mohan, A.** "Sri Lanka." World Literature Today. Ed. Scott Slovic. Norman: U of Oklahoma P, 2014.

**Sen, S.** "Sangeet, Srijanshakti, ebong Soundarya." Trans. Tapan Roy. Rabindranath-Einstein: Ek Amimangsito Sanlap [Rabindranath-Einstein: An Inconclusive Conversation]. Ed. Sanjib Mukhopadhyay. Kolkata, Sahitya Samsad, 2014. 275-279.

**2015**

**Chakrabarti S.** (2015). Series Editor, Feminisms, ed. Mukhopadhyay Arpita (Orient Blackswan, Nov.2015).

**Chakrabarti S.** (2015). Review of Labyrinths of Language: Philosophical and Cultural Investigations by Franson Manjali in Journal of the Indian Council of Philosophical Research, (Springer: 2015), DOI 10.1007/s40961-015-0015-9.

**Chakrabarti S.** (2015). Review of The Firebird by Saikat Majumdar in Desh (forthcoming).

**Das K.** (2015). Subaltern Historiography to Dalit Historiography- Tracing Heterogeneity in Dalit Subalternity. Economic & Political Weekly. Vol.-L- 7, 14th February 2015. (ISSN- 2349-8846).

**Das K.** (2015). Das, Kalyan. "To Eat or not to Eat Beef: Spectres of Food on Bengal's Politics of Identity". 'Special Article' in Economic & Political Weekly. Vol. L- 44 , 31st October, 2015.( ISSN- 0012-9976),pp-105-114.

**Mohan A.** (2015). Giraya and the Gothic Space: Nationalism and the Novel in Sri Lanka. Ed. Victor Li and Prasad Bidaye. University of Toronto Quarterly. (forthcoming)

**Mohan A.** (2015). Imagining Ceylon: The Special Cases of Leonard Woolf and Martin Wickramasinghe. Phoenix: Sri Lanka Journal of English in the Commonwealth. Ed. Walter Perera. (2015). Vol. XII. 59-75.

**Mohan A.** "Translated Worlds: Passages, Journeys, Returns." With Chandrima Chakraborty. Postcolonial Text. Special Double Issue, Translated Worlds: History, Diaspora, South Asia. (forthcoming; December 2015)

**Mohan A.** (2015). "Giraya and the Gothic Space: Nationalism and the Novel in Sri Lanka." University of Toronto Quarterly. 84.4. (Nov. 2015). 29-53

**Mohan A.** (2015). "Imagining Ceylon: The Special Cases of Leonard Woolf and Martin Wickramasinghe." Phoenix: Sri Lanka Journal of English in the Commonwealth. Ed. Walter Perera. (2015). Vol. XII. 59-75.

**Mohan A.** "Murgh-e-qibla-nu MA" Postcolonial Text. (forthcoming; December 2015)

**Mohan A.** (2015) "The Interloper." Caesurae: Poetics of Cultural Translation. (September 2015)

**Mukherjee S.** (2015). Videogames and Storytelling: Reading Games and Playing Books. London: Palgrave UK. (forthcoming in September 2015).

**Mukherjee S.** (2015). 'Videogames in India' in Videogames around the World ed. Mark Wolf. Massachusetts: The MIT Press. (forthcoming).

**Ray A, Talukder S.** (2015). “New Trends in Puja Mandaps”, Muse India, Issue 59, (Jan-Feb 2015),<http://www.museindia.com/viewarticle.asp?myr=2015&issid=59&id=5435> (ISSN: 0975-1815).

**Sen S.** “From Quarter-tones to the Big Bang: The Music of Naresh Sohal.” Towards a Global History of Music. Balzan International Research Project (forthcoming 2015).

**Sen S.** “Tagore, Foulds, and Cross-Cultural Exchanges between Indian and Western Musicians: Some Historical and Theoretical Questions.” Towards a Global History of Music. Balzan International Research Project (forthcoming 2015).

## 5. List of Conference Publications Last Four Years

### 2014

**Ray, A., & Patnaik, P.** (2014), “Myths and Icons in Satyajit Ray’s Science Fantasy Stories ‘Professor Shonku and U. F. O.’ and ‘The Unicorn Expedition’”, in Supasetsiri, P. et al (eds), Proceedings: The Asian Conference on Arts and Cultures 2014, Srinakharinwirot University, Bangkok, Thailand, June 12–13, 2014, Bangkok, pp. 149-156.

## 6. Synopsis of Publications

Publications		2012	2013	2014	2015	Total
Paper (peer-reviewed)	national		5		3	8
	International		1	1		2
Books & Monographs	national	1	1			2
	International		1	1	1	3
Articles in magazine/ Newspaper		5	5	4	13	27

### A brief history of the Department

The Department of English (of the erstwhile Presidency College) is perhaps one of the oldest centres where English literature has been taught from the early nineteenth century onwards. In its recent university avatar, the department is still in its formative stage, interestingly poised between its past glorious tradition of teaching British literature and an exciting future where the discipline has broadened its scope to include literatures of the world. The interests of the new faculty members reflect this rich diversity and range over Victorian Studies, Digital Humanities, Postcolonial Studies, Dalit Studies, Critical Theory, Indian Literature, Philosophy and Theology, Classical and Biblical Studies, Film Studies, Musicology, Early Modern Studies, and Creative Writing. The Department of English also now houses the Centre for Studies in Romantic Literature, established in 1994 by the former Vice-Chancellor of Presidency University, Professor Malabika Sarkar. This year, English also became one of the home departments for the upcoming Centre for Digital Humanities. In the pipeline is also a Centre for Studies in Victorian Literature whose focus will be transnational as well as multidisciplinary.

## Evaluative Report of the Department : Hindi

1. **Name of the Department** : Hindi
2. **Year of establishment** : Teaching of Hindi as a Vernacular Language started in 1928 and Department of Hindi came into being in 1982 to introduce Hindi Hons.
3. **Is the Department part of a School/Faculty of the university?** : Yes, Part of Faculty of Humanities & Social Sciences.
4. **Names of programmes offered (UG, PG, MPhil, PhD, Integrated Masters; Integrated PhD, DSc, DLitt, etc.)** :
  - BA Honours in Hindi, MA in Hindi, PhD in Hindi & GenEd programme in Hindi.
5. **Interdisciplinary programmes and departments involved** :
  - Interdisciplinary subjects are included in the syllabi of UG & PG and GenEd courses programmes.
6. **Courses in collaboration with other universities, industries, foreign institutions, etc.**
  - PhD Course work.
7. **Details of programmes discontinued, if any, with reasons** : nil
8. **Examination System: Annual/Semester/Trimester/Choice Based Credit System**
  - Semester with Choice Based Credit System.
9. **Participation of the department in the courses offered by other departments**
  - Participation in the UG Course of Bengali Department.
10. **Number of teaching posts sanctioned, filled and actual (Professors/Associate Professors/Asst. Professors/others)**

	Sanctioned	Filled	Actual (including CAS & MPS)
Professor	2	1	
Associate Professors			
Asst. Professors	12	4	
Others			

11. **Faculty profile with name, qualification, designation, area of specialization, experience and research under guidance**

Name	Qualification	Designation	Specialization	No. of Years of Experience	No. of PhD/ MPhil students guided for the last 4 years
Prof. Tanuja Majumder	BA (Hindi Hons.), MA in Hindi & PhD	Professor	Modern Hindi Poetry, Comparative Literature & Gandhian Studies.	25 years	one research scholar registered for PhD



Name	Qualification	Designation	Specialization	No. of Years of Experience	No. of PhD/ MPhil students guided for the last 4 years
Dr. Anindya Gango padhyay	BA (Hindi Hons.), MA in Hindi & PhD	Assistant Professor	Hindi Fiction	9 years in whole time contractual service at college and 2 years in regular service in university.	one research scholar enrolled for PhD
Dr. Rishi Bhushan Choubey	BA (Hindi Hons.), MA in Hindi & PhD	Assistant Professor	Hindi Fiction, feminist discourse & linguistics	4 years teaching	one research scholar enrolled for PhD
Dr. Mary Hansda	BA (Hindi Hons.), MA in Hindi & PhD	Assistant Professor	Hindi Fiction	7 years	nil
Dr. Ved Raman Pandey	BA (Hindi Hons.), MA in Hindi & PhD	Assistant Professor	Criticism and Hindi Fiction	15 years	One research scholar registered for PhD in Presidency University and two Ph d scholars registered in Calcutta University.

12. List of senior Visiting Fellows, adjunct faculty, emeritus professors: None

13. Percentage of classes taken by temporary faculty – programme-wise information UG : 10% & PG : 10%

14. Programme-wise Student Teacher Ratio: UG 17:1; PG 14:1

15. Number of academic support staff (technical) and administrative staff: sanctioned, filled and actual: one

16. Research thrust areas as recognized by major funding agencies Research thrust areas as recognized by GSDS, New Delhi :

- Gandhian Thoughts & Philosophy in Hindi Literature.
- Gandhian Thoughts & Philosophy in Indian Literature.
- Gandhian & Ravindranath : Comparative Study in context of Thoughts & Philosophy.
- Influence of Gandhi on Najrul Islam’s Literature.
- History of North-Eastern Literature : Kokborak, Manipuri & Nepali.
- Contemporary Literature of North-East.
- Literature of Henry Louis Vivian Derozio and Indian Renaissance.

Research thrust areas as recognized by UGC, New Delhi :

- Partition Literature in Hindi , Bangla & Bangladeshi Literature.

17. Number of faculty with ongoing projects from a) national b) international funding agencies and c) Total grants received. Give the names of the funding agencies, project title and grants received project-wise.

- All ongoing projects of GSDS & UGC under one faculty (Prof. Tanuja Majumdar) completed.

## Presidency University

### 18. Inter-institutional collaborative projects and associated grants received

- a) National collaboration : nil
- b) International collaboration : nil

### 19. Departmental projects funded by DST-FIST; UGC-SAP/CAS, DPE; DBT, ICSSR, AICTE, etc.; total grants received. Nil

### 20. Research facility / centre with

- state recognition : nil
- national recognition : Gandhi Centre for North-Eastern Languages
- international recognition : nil

### 21. Special research laboratories sponsored by / created by industry or corporate bodies: nil

### 22. Publications: (List in annexure)

- Number of papers published in peer reviewed journals (national / international)
  - \* Peer reviewed journals National : 6
  - \* Peer reviewed Journals International : 3
- Monographs
- Chapters in Books: 8
- Edited Books : 1
- Books with ISBN with details of publishers : 4
  1. Majumdar, Tanuja, Ravindra Khandan Ke Muslim Varis, Manav Prakashan, Kolkata, ISBN- 978-93-80332-27-7, 2012
  2. Majumdar, Tanuja, Derozio-Najrul-Nirala, Manav Prakashan, Kolkata, ISBN- 978-93-80332-27-8, 2012
  3. Majumdar, Tanuja, Bharatiya Sahitya : Kucch Paridrishya, Aman Prakashan, Kanpur, ISBN- 978-93-80332-27-8, 2012
  4. Hansda, M, Ajay Nadi Ke Tat Par ( translation of Ojay Gada Dhipre written by Nathaniel Murmu), BK Sahitya Publication Kolkata, ISBN 978-93-81564-36-3, 2015
- Number listed in International DataBase (For e.g. Web of Science, Scopus, Humanities International Complete, Dare DataBase - International Social Sciences Directory, EBSCO host, etc.) : nil
- Citation Index – range / average
- SNIP
- SJR
- Impact Factor – range / average
- h-index

### 23. Details of patents and income generated: nil

### 24. Areas of consultancy and income generated : nil

### 25. Faculty selected nationally / internationally to visit other laboratories / institutions / industries in India and broad : nil

## 26. Faculty serving in

- a) National committees b) International committees c) Editorial Boards d) any other (please specify) :
1. Choubey, RB, member of Editorial Board, General Frame of Reference- Hindi, Ed- M Balkumar, CIIL, MHRD, Government of India, Mysore, ISBN-978-81-7342- 102-1 2013.
  2. Choubey, RB, member of Editorial Board, Mulyankan Sabdawali Prabodhika, Ed M Balkumar CIIL, MHRD, Government of India, Mysore , ISBN - 978-81-7343-126-5, 2013.
  3. Choubey, RB, member of Editorial Board, Teaching and Testing Hindi in information Era: Problems and Perspectives, Ed M Balkumar CIIL, MHRD, Government of India, Mysore , 2014
  4. Majumdar, Tanuja, member of Board of Studies in Comparative Literature, Jadavpur University.
  5. Majumdar, Tanuja, member of Faculty Council for Postgraduate Studies in Arts, Calcutta University.
  6. Majumdar, Tanuja, member of Council for U.G. Studies in Arts, Calcutta University.
  7. Majumdar, Tanuja, member of Board of Studies in Hindi, W. Bengal State University.
  8. Majumdar, Tanuja, member of Board of Studies in Hindi, Gour Banga University.

## 27. Faculty recharging strategies (UGC, ASC, Refresher / orientation programmes, workshops, training programmes and similar programmes). :

- Majumdar, Tanuja, delivered two Lectures on ‘Contemporary Kokborak Literature of Tripura’ and ‘Contemporary Manipuri Literature’ at Refresher Course organised by UGC & Comparative Literature Department, Jadavpur University on 3rd February, 2014.
- Majumdar, Tanuja, delivered two Lectures on ‘Literary Studies and Performance : Hindi Drama Tradition’ at Refresher Course organised by UGC & HRDC and Comparative Literature Department, Jadavpur University on 31st August, 2015.
- Pandey, Ved Raman, delivered Lecture on ‘Nagarjun Ki Kavita Men Bharat’ at Refresher Course, Hindi Department, University of Kerala, on January, 2012.
- Pandey, Ved Raman, delivered Lecture on ‘ Hindi Upanyas Ke Vividh Aayam’ at Refresher Course, Hindi Department, Calicut University, on 20th November, 2013.
- Pandey, Ved Raman, delivered Lecture on ‘Uttar Adhunikta Aur Hindi Upanyas’ at Refresher Course, Hindi Department, Burdwan University on 4th March, 2014.

## 28. Student projects

- Percentage of students who have done in-house projects including inter-departmental projects  
100%. All students of UG final year and PG Ist & IInd year do in-house projects based on fieldwork, included in Sessional papers.
  - Project on Folk life & Folk song.
  - Project on Survey of Hindi Teaching in schools.
  - Project on Survey of Newspapers and Journals.
  - Project on effect of Languages on daily life.
  - Percentage of students doing projects in collaboration with other universities / industry / institute : nil

## Presidency University

### 29. Awards / recognitions received at the national and international level by

- Faculty None
- Doctoral / post doctoral fellows None
- Students None

### 30. Seminars/ Conferences/Workshops organized and the source of funding (national /international) with details of outstanding participants, if any. (provide List in annexure)

- National Seminars : Eight
- International Seminars : Six
- State Seminars : Three

### 31. Code of ethics for research followed by the departments :

General code of ethics as practised in Indian universities. Promoting collaborative interdisciplinary research and unexplored areas.

### 32. Student profile programme-wise:

Name of the programme (refer to question no. 4)	Applications received	Selected		Pass percentage	
		Male	Female	Male	Female
UG	100	09	25	99%	99%
PG	72	08	25	98%	98%
PhD	25	02	04		

### 33. Diversity of students

Name of the programme (refer to question no. 4)	% of students from the same university	% of students from other universities within the State	% of students from universities outside the State	% of students from other countries
UG		100%		
PG	40%	60%		
PhD	1%	99%		1%

### 34. How many students have cleared Civil Services and Defense Services examinations, NET, SET, GATE and other competitive examinations? Give details category-wise.

- NET : Eight

### 35. Student progression

Student progression	Percentage against enrolled
UG to PG	60%
PG to MPhil	<5%
PG to PhD	5%
PhD to Post-Doctoral	N/A
Employed • Campus selection • Other than campus recruitment	50% in schools as teacher & translator in Govt. offices/ Banks/undertaking.
Entrepreneurs	A significant number of students are self-employed

**36. Diversity of staff**

Percentage of faculty who are graduates of the same university	
from other universities within the State	3
from universities from other States from	2
universities outside the country	

**37. Number of faculty who were awarded MPhil, PhD, DSc and DLitt during the assessment period : nil**

**38. Present details of departmental infrastructural facilities with regard to**

- a) Library : Seminar Library & Central Library
- b) Internet facilities for staff and students : Available For all staff & students
- c) Total number of class rooms : 5
- d) Class rooms with ICT facility : 1
- e) Students' laboratories : NA
- f) Research laboratories : NA

**39. List of doctoral, post-doctoral students and Research Associates**

**Doctoral Students :**

- a) from the host institution/university : 1
- b) from other institutions/universities : 5

**40. Number of postgraduate students getting financial assistance from the university.**

**41. Was any need assessment exercise undertaken before the development of new programme(s)? If so, highlight the methodology.**

- Yes, Through feedback of students and teachers.

**42. Does the department obtain feedback from**

- a. faculty on curriculum as well as teaching-learning-evaluation? If yes, how does the department utilize the feedback? Yes
- b. students on staff, curriculum and teaching-learning-evaluation and how does the department utilize the feedback? Yes through teacher-student committee meetings
- c. alumni and employers on the programmes offered and how does the department utilize the feedback? Yes

**43. List the distinguished alumni of the department (maximum 10)**

1. Dr. Rinku Ghosh, Assistant Professor, Hindi Department, Lady Brabourne College, Kolkata
2. Dr. Abhijit Bhattacharya, Assistant Professor, Hindi Department, Bethun College, kolkata
3. Dr. Shitanshu Kumar, Assistant Professor, Hindi Department, Assam University, Silchar
4. Dr. Sunita Shaw, Assistant Professor, Hindi Department, Sabitri Girls College, Kolkata
5. Dr. Rishikesh Singh, Assistant Professor, Hindi Department, RBC College, Naihati,

## Presidency University

6. Dr. Deepanwita Majhi,, Assistant Professor, Hindi Department, Sabitri Girls College, Kolkata
7. Dr. Manisha Shaw, Assistant Professor, Hindi Department, Charu Chandra College, Kolkata
8. Dr. Shrinivas Singh Jadav, Assistant Professor, Hindi Department, Shyama Prasad College, Kolkata
9. Vimlesh Tripathi, Noted Hindi Poet
10. Kunal Singh, Noted Hindi Poet

#### 44. Give details of student enrichment programmes (special lectures / workshops / seminar) involving external experts.

##### Special Lectures & Memorial Lectures :

- Mahatma Gandhi Memorial Lecture on ‘Main Aspects of Bangladeshi Literature’ on 3rd September, 2012. Speaker : Selina Hussain, Eminent Writer & Director of Bangla Academy, Dhaka, Bangladesh. Also Bangladeshi Representative in UNO.
- Mahatma Gandhi Memorial Lecture on ‘Development of Korean Language by Missionaries in South Korea’ on 7th September, 2012. Speaker : Dr. Sung Min Park, Vice President, King’s College, New York, USA
- Mahatma Gandhi Memorial Lecture on ‘Development of Consumerism & Capitalism in American Society’ on 30th November, 2012. Speaker : Dr. Garey Vender, BoStan University, USA
- Mahatma Gandhi Memorial Lecture on ‘Family Honour & Woman Killing’ on 14th December, 2012. Speaker : Prof. Maleka Begum, Women Studies Department, Dacca University, Bangladesh.
- Mahatma Gandhi Memorial Lecture on ‘The Indian State and Communalism’ on 30 August 2013. Speaker : Vibhuti Narayan Rai, Eminent Hindi Writer & Former Vice-Chancellor of MGHA Vishwavidyalaya, Wardha.
- Mahatma Gandhi Memorial Lecture on ‘Classical Ragas in Tagore’s Songs of Season’ on 6th September, 2013. Speaker : Dr. Indrani Sen, Eminent exponent of Rabindra Sangeet.
- Mahatma Gandhi Memorial Lecture on ‘Cinema of Bangladesh: A Different Trend’ on 20th September, 2013. Speaker : Tanveer Mokammel, Eminent Film maker & Director of Bangladesh.
- Mahatma Gandhi Memorial Lecture on ‘Indian Renaissance and Vivekananda’ on 10 January, 2014. Speaker : Prof. G. Gopinathan, Former Vice-Chancellor of MGHA Vishwavidyalaya, Wardha.
- Special Lecture on ‘Role and Impact of Hindi on Social Life of Bangladesh’ on 25th November 2013. Speaker : Dr. Farjana Siddika, Bangla Department, Shahjalal University of Science and Technology, Sylhet, Bangladesh.
- Special Lecture on ‘Trends of Contemporary Literature of Bangladesh’ on 25th November 2013. Speaker : Dr. Prashant Kumar Mridha, Bangla Department, Biyanibazar Govt. College, Sylhet, Bangladesh.
- Special Lecture on ‘Women Discourse and Poetics’ on 6th January 2014. Dr. Rahul Pandey, Hindi Department, Lucknow University.
- Special Lecture on ‘Impact of Hindi Bhakti Sahitya on Society’ on 4th December 2013. Speaker : Prof. Kailash Devi Singh, Hindi Department, Lucknow University.
- Special Lecture on ‘Women Discourse in Hindi Literature’ on 10 January 2014. Speaker : Prof. Malati, Govt Arts & Science College, Calicut, Kerala.
- Special Lecture on ‘ Women Discourse in Malayalam Novels’ on 11th March 2014. Speaker : Prof. Shashidharan Poovar, Emeritus Professor, Hindi Department, Govt Arts & Science College, Calicut, Kerala.

- Special Lecture on 'Communicative English' on 12th March 2014. Speaker : Prof.Mohan PB, English Department, Cochin University, Kerala.
- Special Lecture on 'Poetry of Shamsheer' on 23rd April 2014. Speaker : Prof. Rajashree, Hindi Department, Calcutta University.
- Special Lecture on 'Relevance of Hindi Bhakti Kavya' on 25th April 2014. Speaker : Prof. Sheonath Pandey, Hindi Department, Hoogly Mohasin College.
- Special Lecture on 'Status of Hindi in North-Eastern India' on 28th April 2014. Speaker : Prof. Vinod Kumar Mishra, Hindi Department, Tripura University.
- Special Lecture on 'Relevance of Literature in 21st Century' on 24th September 2014. Speaker : Prof. Arun Kamal, English Department, Patna University.'
- Special Lecture on 'Rabindranath and Nirala' on 12th November 2014. Speaker : Prof. Ipshita Chanda, Comparative Literature Department, Jadavpur University.
- Special Lecture on 'Translation & Transcreation : Ananddas Ka Potha' on 14th November 2014. Speaker : Prof. Mou Das Gupta, Sanskrit Department, Calcutta University.
- Special Lecture on 'Dalit Sahitya : Dalit Andolan' on 21st November 2014. Speaker : Prof. Mohan Naimishray, Hindi Department, Indira Gandhi Open University.
- Special Lecture on 'Modern Sanskrit Literature : Tradition & Innovation' on 9th December 2014. Speaker : Prof. Rita Chatterjee, Sanskrit Department, Jadavpur University.
- Special Lecture on 'Challenges of Electronic Media' on 20th December 2014. Speaker : Prof. Jagadishwar Chaturvedi, Hindi Department, Calcutta University.
- Special Lecture on 'Media : Language & Concept' on 22nd December 2014. Speaker : Prof. Jagadishwar Chaturvedi, Hindi Department, Calcutta University.
- Special Lecture on 'Problems of Social Media' on 23rd December 2014. Speaker : Prof. Jagadishwar Chaturvedi, Hindi Department, Calcutta University.
- Special Lecture on 'Rajbhasha Hindi' on 23rd December 2014. Speaker : Dr. Ramnivas, Deputy Director, Central Hindi Directorate, Govt. of India New Delhi.
- Special Lecture on 'Research Methodology' on 13 February 2015. Speaker : Dr. Vinod Kumar, Hindi Department, West Bengal State University.
- Special Lecture on 'Implementation of Official Language' on 25th February 2015. Speaker : Dr. Rustam Rai, Assistant. Director, Department of Official Language, Ministry of Home Affairs, Govt. of India.
- Special Lecture on 'Nature of Administrative Hindi Rajbhasha' on 3rd March 2015. Speaker : Dr. Rustam Rai, Assitant Director, Department of Official Language, Ministry of Home Affairs, Govt. of India.
- Special Lecture on 'Reading of Literature : Modern Hindi Literature' on 6th November 2015. Speaker : Dr. Yogesh Pratap Shekhar, Assistant Professor, Hindi, Bihar Central University, Patna.
- Special Lecture on 'Modern Hindi Poetry' on 11th January, 2016. Speaker : Dr. Aditya Vikram Singh, Assistant Professor, Hindi, Sikkim University, Sikkim..
- Special Lecture on 'Sino-India Cultural Relation through Translation' on 4th January 2016. Speaker : Prof. Jiang Jingkui, Professor & Head, Hindi Department, School of Foreign Languages and Director, Centre for South-Asian Studies, Peking University, Beijing, China.

**45. List the teaching methods adopted by the faculty for different programmes.**

- Lecture method, teaching & learning process.
- Using laptop and overhead projector.
- Arrangement of special lectures.
- Powerpoint presentation.

**46. How does the department ensure that programme objectives are constantly met and learning outcomes are monitored?**

- Tutorials and student feedback.
- Board of Studies periodically reviews the programme and syllabus.
- Student-Teacher Committee evaluate the feedback of the students on syllabus.
- Revision & modification of syllabus Based on the suggestions of subject experts.

**47. Highlight the participation of students and faculty in extension activities.**

- Attending Public Lectures.
- Attending Seminars & Workshop.

**48. Give details of “beyond syllabus scholarly activities” of the department.**

- Organising Student Seminars.
- Organising inter College & Universities Cultural meet on Hindi Diwas.
- Organizing seminars, special lectures, workshops.
- Organising tours & Excursion.

**49. State whether the programme/ department is accredited/ graded by other agencies? If yes, give details.**

- Yes, the department is graded by UGC by sanctioning grant of Rs. 53 Lakh for modernization and upgradation of the department.

**50. Briefly highlight the contributions of the department in generating new knowledge, Basic or applied.**

1. Department has framed the syllabus Language Certificate Course and Diploma Course in Santhali, Nepali, Urdu and Hindi for Non-Hindi Speaking students and foreigners. The courses will be started from new academic session.
2. Department has updated and modified the syllabus of UG and PG as per UGC guidelines and following modules are included in the syllabus in order to generate new knowledge :
  - Modules on Comparative Literature.
  - Modules on Comparative Studies of Hindi and Bangla Literature.
  - Module on Tribal Literature.
  - Module on Dalit Literature.
  - Module on Women Discourse.
  - Module on Media Studies.



- Module on Mass Communication and Journalism.
- Module on Pravasi Hindi Sahitya.
- Module on Pravasi Indian Sahitya.
- Module on Translation Studies.

**51. Detail five major Strengths, Weaknesses, Opportunities and Challenges (SWOC) of the department.**

**Major Strengths :**

- Good quality of students.
- Students belonging to different Language groups.
- Faculty members are capable to deliver lectures in other indian languages.
- Faculty members are capable to do research in other indian languages.
- Good collection of books in Library.

**Weaknesses :**

- Students of the department usually belong to the weaker sections of the society, resulting lack of knowledge of Computer and English.
- Not getting interested research scholars for doing Ph.D in interdisciplinary subjects and comparative Literature.
- The department has no faculty with specialization in Linguistic, Applied Linguistic and Indian Poetics & Western Poetics.

**Opportunities :**

- For the development of interdisciplinary courses the University have highly qualified, dynamic, accomplished faculty in other departments of humanities and sciences.
- The faculty and students of the department have the opportunities to learn many languages. They can also learn European languages offered by English department of the university.
- International collaboration of Presidency University with other highly reputed universities provides the scope of higher learning and research in foreign universities.

**Challenges :**

- Generating resources for higher learning.
- To motivate students for interdisciplinary studies and research, specially in unexplored areas.
- To develop learning ability and research aptitude with multilingual approach and perspective, so that students can be good teacher and researcher in near future.
- To motivate students for translation course and journalism in order to enhance job oriented skills.

**52. Future plans of the department.**

- Diploma & Certificate Course in Indian Languages.
- Diploma & Certificate Course in Translation, Journalism and Media Studies.
- Research projects under SAPP of UGC.

ANNEXURES

1. List of Research Projects in Last four Years

Sl. No	Year of Initiation	Year of Completion	Funding agency	PI	Title	Fund Sanctioned	Fund Received	Completed/ongoing
1	2009	2012	UGC	Prof. Tanuja Majumdar	Hindi, Bangla Aur Bangladeshi Upanyason mein Bharat Vibhajan ki Trasadi Evam Sanskritik Asmita Ka Nirman	Rs. 5 Lakh	Rs. 4,82,000/-	Completed
2	2009	2012	GSDS	Prof. Tanuja Majumdar	Contemporary North-Eastern Literature	Rs. 1, 80, 000/-	Rs. 1,80, 000/-	Completed
3	2009	2013	GSDS	Prof. Tanuja Majumdar	History of North-Eastern Literature	Rs. 1, 89, 000/-	Rs. 1,89, 000/-	Completed

2. List of Seminars and Conferences Organized in last three years

Sl No.	date/Month	Topic	Source of Funding	Status (Local/State/national level) (student enrichment programme)
1.	11th & 12th January, 2012	“Globalization & Literature”	GSDS	International
2	21st January 2013	The Song of the Phoenix: Remembering Sadat Hasan Manto	GSDS and Jadavpur University	International
3	14-15th February 2013	The Voice of Enlightenment : Remembering Ram Vilas Sharma	GSDS and Central Hindi Institute, Agra	International
2.	9th May 2012	“Translation of Rabindranath’s Geetanjali in Foreign Languages”	UGC	State
3.	7th February, 2014	“Contemporary Poetry of Pakistan and Vietnam”	GSDS	International
4.	13th March, 2014	“Mother Tongues: Marginalized Language – Cultures of West bengal”	GSDS and Jadavpur University	National
5.	22th August, 2014	“The Bazar and the Bari: Calcutta, Marwaris and the World of Hindi Letters”	GSDS	National
6.	25th August, 2014	“The Nath Sampraday and Hindi Literature”	GSDS	International
7.	28th August, 2014	“Kavita Se Sarokar”	GSDS	National
8.	17th September, 2014	“The Problems of Translation of Classical Poetry: Kalidas’ Meghdoot”	GSDS	State

Sl No.	date/Month	Topic	Source of Funding	Status (Local/State/national level) (student enrichment programme)
9.	9th December, 2014	“Journalism: Linguistic Challenges”	GSDS	State
10.	24th December, 2014	“Contemporary Indian Poetry”	UGC	National
11.	14th January, 2015	“Translation of Tagore’s Geetanjali in Tripuri Tribal Language Kokborak”	GSDS	National
12.	23rd & 24th February, 2015	“Dialects & Identity Crisis”	Central Institute of Languages, Mysore	National
13.	20th March, 2015	“Influence of Folk Life and Culture on Indian Literature: With Special Reference to Bengali, Hindi & English Literature”	UGC	National
14.	30th March, 2015	“Contemporary Indian Tribal Literature”	GSDS	National

**3. Seminar workshops attended by teachers of the Department in last three years (chronologically)**

1.	Anindya Gango padhyay	“Media Past Present and Future	5-6 th December 2014	Babu Shovaram Rajakiya Kala Mahavidyalaya, Alwar, Rajasthan	UGC & ICSSR sponsored National	Invited Speaker
2	Anindya Gango padhyay	Introduction to Translation	6 January 2015	NTM, CIIL, MYSORE	Intensive training programme	Invited Speaker
3	Anindya Gango padhyay	‘Adhunik Hindi Natak’, Adhunik Bharatiya Sahitya	17th March 2015	Rabindra Bharati University	National Seminar	Invited Speaker
4	Anindya Gango padhyay	Influence on Folk Life and Culture on Indian Literature	20th March 2015	Netaji Subhas Ashram Mahavidyalaya. Suisa, Purulia	National Seminar	Invited Speaker
5	Mary Hansada	Neo Non Hindi Writers	23 August 2014	Central Hindi Directorate & W. B. State University	National Workshop	Invited Speaker
6	Mary Hansada	Bhism Sahani Kenatako mein Samakalin Jivan	15 February 2015	Garifa Maiteya Granthagar	National Seminar	Invited Speaker
7	Mary Hansada	Rajbhasha Aur Prantik Bhasha	15 September 2015	Vishwa Bharati	National seminar	Invited Speaker
8	Rishi Bhushan Choubay	Indian Modernity	01-02 September 2013	Jivnoday samiti Gazipur	International seminar	Invited Speaker
9	Rishi Bhushan Choubay	Indian Feminism	20-21 September 2014	Jivnoday samiti Gazipur	International seminar	Invited Speaker

## Presidency University

10	Rishi Bhushan Choubay	Influence on Folk Life and Culture on Indian Literature	20 March 2015	Netaji Subhas Ashram Mahavidyalaya. Suisa, Purulia	National seminar	Resource Person
11	Rishi Bhushan Choubay	Hindi Navajagaran aur Bhartedu Harishchandra ka Yogdan	10 December 2015	Tribal Literature and culture	Local Seminar	Invited Speaker
12	Tanuja Majumdar	Hindi and North Eastern Language	15 July 2012	Mahatma Gandhi Anterrashtriya Vishwavidyala, Wardha Bhawan, Kolkata	National seminar	Resource Person
13	Tanuja Majumdar	Different Aspects of Rajbhasha Hindi	9 August 2012	Ministry of Defence Kolkata Zonal Office	State seminar	Resource Person
14	Tanuja Majumdar	Indian Renaissance and Nirala	10 August 2012	Vidyasagar College, Kolkata	Local seminar	Resource Person
15	Tanuja Majumdar	Journey of Comparative Literature : India and Beyond	17 January, 2013	CLAI & Jadavpur University	International seminar	Chair person of a session
16	Tanuja Majumdar	Application of Gandhian Ideas to Peace, Conflict Resolution, Rural Development and Higher Education	27-28th April, 2013	Centre for Gandhian Studies, GITAM University, Visakhapatnam	National seminar	Resource Person
17	Tanuja Majumdar	Tribal Literature and Culture	4-5 October 2013	Central University of Gujarat, Gandhinagar	National seminar	Chair person of a session
18	Tanuja Majumdar	Impact of Globalization on Literature	10-12 January 2014	TamilNadu Hindi Sahitya Academy, chennai	International seminar	Resource Person
19	Tanuja Majumdar	Impact of Globalization on Tribal Literature and Culture	20-21 February 2014	Assamese, Marathi & Tamil Language Dept. Bhasha Bhawan, Visva Bharati	National seminar	Chair person of a session
20	Tanuja Majumdar	Bengal and North-Eastern Literature	25 February 2014	Mahatma Gandhi Anterrashtriya Vishwavidyala, Wardha Bhawan, Kolkata	National seminar	Resource Person
21	Tanuja Majumdar	Mother Tongues : Marginalized language – Cultures of West Bengal	13 March 2014	Department of Comparative Literature, Jadavpur University & North Bengal University	National seminar	Keynote Address
22	Tanuja Majumdar	Voice of the Voiceless : Indian Dalit Literature	20 November 2014	Hindi Department, Calcutta University	National seminar	Resource Person

23	Tanuja Majumdar	World Peace : Perceptions and Practices	1 March 2015	Sri Sai College of Education, Pathankot, Punjab	International	Keynote Address
24	Tanuja Majumdar	Mahatma Gandhi : Return to Homeland	2nd March 2015	Kanya Mahavidyalaya, Jalandhar, Punjab	National seminar	Keynote Address
25	Tanuja Majumdar	Concept of Cleanness of Mahatma Gandhi	10 March 2014	Rabindra Bhavan, Vishwa Bharati	National seminar	Resource Person
26	Tanuja Majumdar	Influence of Folk Life and Culture on Indian Literature	20 March 2015	Netaji Subhash Ashram Mahavidyalaya, Purulia	National seminar	Keynote Address
27	Tanuja Majumdar	Rajbhasha Hindi & Responsibilities	23 March 2015	Regional Centre of Bureau of Indian Standards, Kolkata	State seminar	Keynote Address
28	Tanuja Majumdar	Bharathiyar and His Contemporary Writers	9 April 2015	Centre of Indian Language, Jawaharlal Nehru University	International seminar	Keynote Address
29	Tanuja Majumdar	People's Icon Ho Chi Minh and India	9 May 2015	Indo-Vietnam Solidarity Committee, Kolkata	International seminar	Resource Person
30	Tanuja Majumdar	Translation Studies in Open Praxis	8 th October 2015	School of Humanities, Netaji Open University	National seminar	Resource Person
31	Tanuja Majumdar	Comparative Literature : At the Crossroads of Culture and Society	16-17 January 2016	Centre for Comparative Literature, Bhasha Bhavan, Visva Bharati	International seminar	Resource Person
32	Ved Raman Panday	Rastriyata, Sahitya, Sanskriti aur Ramvilas Sharma	27-28 February 2013	Lal Baba College, Howrah	National seminar	Resource Person
33	Ved Raman Panday	Hindi Kahani ki Adyatan Praesitiyan	16-17 January 2013	Govt Arts & Science College, Calicut, Kerala	National seminar	Resource Person
34	Ved Raman Panday	Bazar ke Barchaswn ko Sahitya ki chunauti	7-8 February 2015	Bharatiya Bhasha Parishad	National seminar	Resource Person
35	Ved Raman Panday	Hindi Alochana ki Dasha aur Disha	25 February 2015	North-Bengal University	National seminar	Resource Person
36	Ved Raman Panday	Assi ke Bad Hindi Upanyas : Samvedna Aur Sanrachna ke Aayam	21-22 November 2015	Govt Arts & Science College, Calicut, Kerala	National seminar	Resource Person
37	Ved Raman Panday	Swatantayottar stri-Sahitya aur Adhunikata Bodh	8th October 2015	Shree Shikhhyatan College, Kolkata	National seminar	Resource Person

## Presidency University

### Peer reviewed Journals National :

1. **Choubey RB**, Hindi Navajagaran Kal Me Stree Chetna Ka Ubhar, The Discourse, Research Journal ( Refereed), 2013 ISSN-2278-0920, issue - March - April 2013
2. **Choubey RB**, Youn Hinsa aur Sahaj Manviya Youn Naitikta ki Mang: Kathgulab, The Discourse, Research Journal ( Referred) 2, (3-4), (2013), pp 239- 247
3. **Gangopadhyay, A**, 'Bestiary Beacon: Analyzing Allegorical Uses of Animals in Contemporary Hindi Poetry', Bhattar College Journals of Multidisciplinary studies: A Special Issue on Animal Studies, ISSN 2249-3301, 2013, pp 38-44
4. **Hansda M**, Bhishma Sahani ke Natak : Samay se Sakshatkar, Padarpan, ISSN 2321-5127, Edition 1 (March, 2015)
5. **Hansda M**, Adivasiyon Ka Vikash ; Visthapan Ke Rastey, Pariokar, ISSN 320-5601, Edition (March, 2015)
6. **Hansda M**, Adivasi Vimarsh Ki Pahli Kandriya Patrika, ISSN 2394-689X, Edition 1 (July- Sept, 2015), Year 1

### \*\*\*Peer reviewed Journals International :

1. **Choubay, RB**, Katha Sanrachna aur Stree Dristi, World Translation, International Research journal, vol -2, no-1 Jan-June, 2013
2. **Gangopadhyay, A**, 2014, 'Unleashed Multiculture on Untamed mind : An effect', IOSR Journals, ISSN 2279-0845, pp 6-12 Impact Factor 1.607
3. **Gangopadhyay, A**, 2015 'A discourse of Swami Vivekananda on Salvation from Mystic Death', Journal of Education and Social Policy, The University of Georgia, USA, ISSN 2375-0782, 1:10-12 Impact Factor 1.318
  - Monographs : nil
  - Chapters in

### Books :

1. **Gangopadhyay, A**, 2013 'Apne apne Agneya' Edited by Subhra Upadhyay, Manav Prakashan, Kolkata, ISBN 978-93-80332-40-6
2. **ChouBAy, RB**, Hindi Bhasha Aur Sahitya Ke Vividh Paridrishya, edited by Dr. Amit Kumar Pandey, Manish Prakashan, Varanasi, ISBN-978-93-81539-58-3
3. **Majumdar, T**, Devesh Devendra Kumar (ed), Shishu Ravindranath, Ravindranath Thakur Ka Bal Sahitya, Vijaya Books, New Delhi, 2013, ISBN-978-93-81840-37-3
4. **Pandey, V. R.**, Kashi ki Assi : Path-Punarpath, ed. Ashutosh Mohan, Sahitya Bhandar, Allahabad, 1st edition, 2015, ISBN 978-81-7779-404-5
5. **Pandey, V. R.**, Assi ka kashi : Galpatar Galp ka Thath : ed. Pallav, Sahitya Bhandar, Allahabad, 1st edition-2015, ISBN 978-81-7779-405-2
6. **Pandey V. R.**- Kafan : Ek Punahpath : ed. Pallav, Lokbharti Prakashan, Allahabad, 1st edition 2014, ISBN : 978-81-8031-952-5
7. **Pandey V. R.**-Ekkiswi Sadi ke Sahityik Vimarsh : ed. Vishwadev Mallick, Vikash Prakashan, Kanpur, 1st edition 2013, ISBN : 978-93-81317-87-7
8. **Pandey V. R.** Mahila Lekhan, edit : Vishnudev Mallick, Vikash Prakashan, Kanpur, 1st edition 2013

● **Edited Books :**

Majumdar, T, Chandrakant Murasingh Ki Shresth Kavitaen, Gandhi Centre for North-Eastern Languages, Presidency University, 2013, ISBN-978-81-909139-9-7

● **Books with ISBN with details of publishers**

1. Majumdar, Tanuja, Ravindra Khandan Ke Muslim Varis, Manav Prakashan, Kolkata, ISBN- 978-93-80332-27-7, 2012
2. Majumdar, Tanuja, Derozio-Najrul-Nirala, Manav Prakashan, Kolkata, ISBN-978-93-80332-27-8, 2012
3. Majumdar, Tanuja, Bharatiya Sahitya : Kucch Paridrishya, Aman Prakashan, Kanpur, ISBN- 978-93-80332-27-8, 2012
4. Hansda MAjay Nadi Ke Tat Par (translation of Ojay Gada Dhipe written by Nathaniel Murmu), BK Sahitya Publication Kolkata, ISBN 978-93-81564-36-3, 2015

**6. Synopsis of Publications**

Publications		2012	2013	2014	2015	Total
Paper (peer-reviewed)	national		3		3	6
	International		1	1	1	3
Books & Monographs	national	3			1	4
	International					
Articles in magazine/ Newspaper			5	1	2	8

**7. Names of Students with outstanding achievements and placements for higher studies (last four years)**

1. Vijay Rabidas, JRF (UGC, NET) at Visva Bharati
2. Deepak Kumar, JRF, (UGC, NET) at Visva Bharati
3. Kirit Devnath, JRF (UGC, NET)
4. Priyanka Kumari Singh NET
5. Puja Kumari Shaw, NET
6. Navaneet Acharya, NET, Completed MA in Hindi and MPhil from JNU.
7. Neha Chaturvedi, admitted to M Phil course of Mahatma Gandhi Antarrashtriya Hindi Vishwavidyalaya
8. Nivedita Prasad, admitted to MA (Hindi) Course at JNU..
9. Brijesh Prasad, admitted to MA Course (Hindi) at JNU.
10. Akshay Bhaskar Vajpayee, admitted to MA course (Hindi) at BHU)
11. Pradip Shaw, admitted to MA Course (Hindi) at BHU.

**8. Special Assistance Received by the Department (last four Years)**

**Apply for first phase of SAAP of UGC**

Scheme	Year of sanction	Duration	Fund Sanctioned
Any other UGC for Modernization & Upgradation of Hindi Department	2015	3 years	53 Lakh

**A brief history of the Department**

The Department is not very old, as it came into being only in 1982. Hindi Honours was introduced in 1982 and MA in Hindi was introduced in 2002. This was the first Department of Presidency College among the humanities, which introduced a Postgraduate course. The aim of the Department is not only to teach Hindi Language & Literature at Undergraduate and Postgraduate levels, but also to encourage students to cultivate special interest in the study of Language & Linguistics in general, especially that of other Indian Languages and Literatures. In order to promote interdisciplinary study and research, many optional papers have been introduced. The Department has designed its curricula in such a fashion that if a student wants to take up Hindi from a professional perspective in order to work in Media and Publishing, or as a translator or Hindi officer in the Government sectors, she/he can take official Hindi & Professional Hindi along with general papers in Hindi at the Undergraduate and Postgraduate levels. If a student wants to make his/her career in research, he/she can choose optional papers in Comparative Literature. Four modules on Indian Literature, Comparative study of History of Hindi & Bangla Literature, Comparative study of Hindi & Bangla Modern Literatures, as well as Comparative Study of Nirala with other Indian poets are offered at the Undergraduate Level. Four modules on the concept of Comparative Literature, Comparative Study of Indian Drama, Comparative Study of Indian Novels and Novels in Indian & World Literature are offered at the Postgraduate Level. Apart from English, Hindi is the only Department of its kind, which attracts students from multilingual and multicultural Backgrounds on a wide scale. Students from all social strata, belonging to different language groups like Bengali, Urdu, Marathi, Gujarati, Nepali and other state languages of India constitute our Hindi Department, making it one of the truly diverse spaces in the entire university.



## EVALUATIVE REPORT OF THE DEPARTMENT: HISTORY

1. **Name of the Department : History**
2. **Year of establishment : 1817**
3. **Is the Department part of a School/Faculty of the university? :** Yes, it is part of the Faculty of Humanities and Social Sciences
4. **Names of programmes offered (UG, PG, MPhil, PhD, Integrated Masters; Integrated PhD, DSc, DLitt, etc.) :**
  - BA (Hons) in History
  - GenED courses for UG 1 & 2 students of other departments
  - MA in History
  - PhD in History
5. **Interdisciplinary programmes and departments involved**
  - The Department of History, in collaboration with the Department of Sociology, is already in the process of setting up a joint programme of academic events and courses of research that will be located within a Centre for Religious Studies. As part of its activities, this Centre envisages establishing dialogues between academics and non-academic specialists in their respective religio-cultural fields. This programme will involve student participation in productive ways: it will rely on them to generate further ideas for the development of the Centre's programmes; it will give them an opportunity, often expressed, to fulfill their interest in various aspects of religion not covered by their regular curricula through interaction with fellows associated with the Centre. The guiding principle of this Centre's activities will be to explore the vital theme of ideas-in this case, religious or religiously-informed ones-in practice.
6. **Courses in collaboration with other universities, industries, foreign institutions, etc.**

### 2015:

During the Odd Semester 2015, the Department of History hosted two senior undergraduate students as part of a student exchange programme established with Sciences Po, Paris, France. These students took courses in various departments across the university, including the UG third year courses in the Department of History. They will be returning to Presidency University in the Even semester of 2016.

As part of this exchange programme, four students from Presidency University, including one from the Department of History, Ms. Shuvatri Dasgupta (PG 1), were selected to spend a semester in Sciences Po, Paris, in the Odd Semester of 2015. During her time at Sciences Po, Ms. Dasgupta had the opportunity to take a wide variety of courses in areas not taught at Presidency. These include: The Quest for democracy in Britain; the Cold War; Women authors as social observers in 19th century Britain; Women in western political thought; Deconstructing the nation-transatlantic and Global histories: and Media and Politics. Furthermore, Ms. Dasgupta participated actively in the Model UN committee there, and the Science Polemique (which is their debating club). She also presented her research on Internet Memes as primary source of history writing in one of their events.

### 2014:

One of the Department's students, Ms. Manvi Agarwal (PG 1, then UG 3), attended the summer school at the

## Presidency University

University of Groningen, from 17-24 August 2014, organized around the theme: “Transformations of Religion and Culture in Contemporary India”. The school was coordinated by Prof. Peter Berger, from the Faculty of Theology and Religious Studies, University of Groningen. It comprised a series of lectures delivered by a cross-section of anthropological scholars from India, Germany, and the Netherlands, culminating in a students’ conference where each of the student participants presented their summer research projects. Our student presented her project titled “Under Construction: Labour, religion and power among Kolkata’s construction workers”.

### 7. Details of programmes discontinued, if any, with reasons

Not applicable.

### 8. Examination System: Annual/Semester/Trimester/Choice Based Credit System

End semester examinations plus mid-term assessments in CBCS.

### 9. Participation of the department in the courses offered by other departments

#### The GenEd (General Education) programme:

The Department of History, in line with other departments of the university, offers four courses per year for non-History majors, two for UG 1 students and two for UG 2 students from departments across the university. These courses aim at providing rigorous disciplinary training while containing themes of more general interest. Team-taught by several faculty members of the department, they offer approaches from the varied specializations of individual faculty members while linking the units within each course to one common theme.

#### The courses offered during the academic year 2015-16 are:

##### First semester of the academic year:

HIST131 Understanding Early South Asian Cultures

HIST331 Early Modern South Asian Cultures

##### Second semester of the academic year:

HIST231 The Twentieth Century World: Themes and Issues

HIST431 South Asian Cultures in the Age of Nationalism: Themes and Issues

#### Open enrolment in courses for students from other departments

The Department of History also keeps its doors open to students interested in the subject beyond the above-mentioned GenEd courses. For example, the department’s lecture courses have had enrolments from students in the department of Sociology doing their sessional papers. Similarly, students from the department of History have been permitted by the Department of Sociology to take sessional courses. The system has been kept fluid and credits for courses taken fully exchangeable, with the only requirement being that the Heads of both departments be kept apprised of such cross-departmental enrolments.

For instance, Arya Dutta (PG 2), in the department of History, took the following courses in departments outside his academic home in the academic years 2011-12 and 2012-13: English; Political Science; Environmental Education; Computer Science.

Similarly, Ms. Jayjayanti Banerjee (PG 2) took courses in the departments of Economics and Political Science during the academic years 2011-12 and 2012-13.

**10. Number of teaching posts sanctioned, filled and actual (Professors/Associate Professors/Asst. Professors/others**

**Please note: The figures below are Based on information for the Odd Semester 2015.**

	Sanctioned	Filled	Actual (including CAS & MPS)
Professor	4	2	2
Associate Professors			
Asst. Professors	10	7	7
Others (guest lecturers)	5	5	5

**11. Faculty profile with name, qualification, designation, area of specialization, experience and research under guidance**

Name	Qualification	Designation	Specialization	No. of Years of Experience	No. of PhD/ MPhil students guided for the last 4 years
Mridu Rai	PhD (Columbia University, New York)	Professor and Head of Department	Modern South Asian History; Historiography; Religious Conflict and Accommodation; Caste and Community; Art in South Asian History; Social, Cultural and Political History	19 years	
Rupendra Kumar Chatto padhyay	PhD (University of Burdwan)	Paresh Chandra Chatterjee Professor of History	Archaeology and Ancient Indian History	33 years	5 students (PhD Degree awarded), 6 students (delivered their PhD Pre-submission seminar), 4 students newly registered in PhD programme, 1 PhD student from Presidency University
Milinda Banerjee	PhD (University of Heidelberg)	Assistant Professor	South Asian and Global Intellectual Histories; Cultural and Social Histories of Early Modern and Modern South Asia	6 years	
Swarupa Gupta	PhD (SOAS, University of London)	Assistant Professor	History of Modern Bengal and India; Ideas about Nationhood; Religious History	3 years 5 months	
Kishan Harijan	MA (University of North Bengal)	Assistant Professor	Economic History of Modern India	2 years 8 months	

Name	Qualification	Designation	Specialization	No. of Years of Experience	No. of PhD/ MPhil students guided for the last 4 years
Deepa Khakha	PhD (Jawaharlal Nehru University, New Delhi)	Assistant Professor	Medieval History	3 years 6 months	
Prabhat Kumar	PhD (University of Heidelberg)	Assistant Professor	Modern History	3 years 6 months	
Soumen Mukherjee	PhD (University of Heidelberg)	Assistant Professor	History of Religion; Intellectual History; Modern South Asia	4 years 2 months (approx. 2 years in Germany; approx. 2 years 2 months in India)	
Mohammad Sajjad Alam Rizvi	PhD (Freie Universität, Berlin)	Assistant Professor	Medieval Indian History; Social and Intellectual History of Islam and Muslims; History of Emotions and of Concepts	2 years 9 months	

**12. List of senior Visiting Fellows, adjunct faculty, emeritus professors**

- Emeritus Professor, Professor Rajat Kanta Ray.
- Professor Rupendra K. Chattopadhyay, Paresh Chandra Chatterjee Chair of History

**13. Percentage of classes taken by temporary faculty – programme-wise information**

UG 1 50%

UG 2 20% (Based on 60% of 1 out of 3 courses taught by guest lecturers)

UG 3 20% (Based on 100% of 2 out of 7 courses taught by guest lecturers, the second course being an optional course)

PG 1 0%

PG 2 25% (Based on 100% of 1 out 6 courses taught by a guest lecturer, the one course being an optional course)

**14. Programme-wise Student Teacher Ratio**

UG 1 Number of students enrolled=31, Ratio= 1 teacher: 4 students

UG 2 Number of students enrolled=36, Ratio= 1:4

UG 3 Number of students enrolled=33, Ratio= 1:4

PG 1 Number of students enrolled=20, Ratio=1:3

PG 2 Number of students enrolled=28, Ratio= 1:3

**15. Number of academic support staff (technical) and administrative staff: sanctioned, filled and actual**

1 member of administrative staff, sanctioned, filled and actual.

**16. Research thrust areas as recognized by major funding agencies**

- Intellectual history; Legal History; Global History; History of Religions; Caste and community

**17. Number of faculty with ongoing projects from a) national b) international funding agencies and c) Total grants received. Give the names of the funding agencies, project title and grants received project-wise. (Synopsis to be given here and provide full List in annexure))**

Two members of faculty. Full list and details in Annexure.

**18. Inter-institutional collaborative projects and associated grants received**

- a) National collaboration    b) International collaboration

b) International Collaboration:

UKIERI Research Project between Presidency University and the University of St Andrews, United Kingdom (2014-16) (for details, see annexure)

**19. Departmental projects funded by DST-FIST; UGC-SAP/CAS, DPE; DBT, ICSSR, AICTE, etc.; total grants received.**

None yet.

**20. Research facility / centre with**

- state recognition :
- national recognition:
- international recognition:

None yet.

**21. Special research laboratories sponsored by / created by industry or corporate bodies**

Not applicable.

**22. Publications: (provide List in annexure)**

- Number of papers published in peer reviewed journals (national / international) : 12
- Monographs 3 (books contracted in 2015)
- Chapters in Books : 18
- Edited Books : 12
- Books with ISBN with details of publishers
- Number listed in International DataBase (For e.g. Web of Science, Scopus, Humanities International Complete, Dare DataBase - International Social Sciences Directory, EBSCO host, etc.)

## Presidency University

- Citation Index – range / average
- SNIP
- SJR
- Impact Factor – range / average
- h-index

23. **Details of patents and income generated :** Not applicable.

24. **Areas of consultancy and income generated:** None.

25. **Faculty selected nationally / internationally to visit other laboratories / institutions /industries in India and abroad**

### **International:**

- (1) Swarupa Gupta, (Invited) Visiting Fellowship, Shivdasani Fellowship, Oxford Centre for Hindu Studies, University of Oxford, 2012
- (2) Mridu Rai, Visiting Research Scholar, Davis Centre for Historical Studies, Princeton University, USA, September 2010 to February 2011
- (3) Mohammad Sajjad Alam Rizvi, Guest Fellowship, Centre for the History of Emotions, Max Planck Institute for Human Development, Berlin (December 2013 to 2 January 2014)

26. **Faculty serving in**

a) National committees b) International committees c) Editorial Boards d) any other (please specify)

### **a) National Committees:**

- (1) Mridu Rai, Netaji Subhas Bose Research Bureau, Kolkata
- (2) Mohammad Sajjad Alam Rizvi, Member, Social Science Panel, National Council for Promotion of Urdu Language, New Delhi, under HRD Ministry, Government of India (Higher Education)

### **b) International Committees**

- (1) Swarupa Gupta, Member, Indo-British Scholars' Association
- (2) Swarupa Gupta, Member, Association of British Scholars
- (3) Soumen Mukherjee, Fellow of the Royal Asiatic Society of Great Britain & Ireland
- (4) Soumen Mukherjee, Member, European Association for South Asian Studies (2010-2012)
- (5) Mridu Rai, Specialist Academic Assessor for Travelling Fellowships, National University of Ireland, 2015
- (6) Mridu Rai, Member of Board, South Asia Studies Initiative, Trinity College, Dublin, January 2011 - March 2014

### **c) Member Editorial/Advisory Board:**

- (1) Swarupa Gupta, Life Member, Institute of Historical Studies, Kolkata
- (2) Swarupa Gupta, Member, Indian History Congress

- (3) Soumen Mukherjee, Reviewer/Member of Advisory Board (2014, 2015), ARGUMENT: Biannual Philosophical Journal
- (4) Soumen Mukherjee, Member Editorial Board, Presidency Historical Review
- (5) Mridu Rai, Member Editorial Board, Presidency Historical Review

**d) Other:**

Reviewer for book publishing houses and peer-reviewed journals,

**Book Publishers:**

- (1) Prabhat Kumar, Reviewer (Book Proposal), Oxford University Press, India
- (2) Soumen Mukherjee, Reviewer (Book Proposal), Taylor & Francis/Routledge Series on Environment & Sustainability and Development Studies (2014)
- (3) Mridu Rai, Reviewer, Harvard University Press
- (4) Mridu Rai, Reviewer, Oxford University Press (India)
- (5) Mridu Rai, Reviewer, Palgrave Macmillan
- (6) Mridu Rai, Reviewer, Pluto Press
- (7) Mridu Rai, Reviewer, Routledge Press
- (8) Mridu Rai, University of California Press

**Peer-reviewed Journals:**

- (1) Soumen Mukherjee, Reviewer/Member of Advisory Board (2014, 2015), ARGUMENT: Biannual Philosophical Journal
- (2) Mridu Rai, Reviewer, Asian Survey
- (3) Mridu Rai, Reviewer, Agricultural History
- (4) Mridu Rai, Reviewer, Contemporary South Asia
- (5) Mridu Rai, Reviewer, Contributions to Indian Sociology
- (6) Mridu Rai, Reviewer, Interventions: International Journal of Postcolonial Studies
- (7) Mridu Rai, Reviewer, Journal of Asian Studies
- (8) Mridu Rai, Reviewer, Modern Asian Studies
- (9) Mridu Rai, Reviewer, South Asia: Journal of South Asian Studies

External Examiner for MPhil/PhD dissertations/theses outside Presidency University

- (1) Soumen Mukherjee, External examiner, MPhil dissertation, CSSS, Kolkata & Jadavpur University, 2014
- (2) Mridu Rai, External examiner, PhD dissertation, Jawaharlal Nehru University, New Delhi, 2015

**27. Faculty recharging strategies (UGC, ASC, Refresher / orientation programmes, workshops, training programmes and similar programmes).**

- Dr. Milinda Banerjee has attended both a Refresher and an Orientation programme during 2015.

## 28. Student projects

- **percentage of students who have done in-house projects including inter-departmental projects**
- **MA Dissertations**

Each year since 2013, MA final year students must undertake to research and write over a full academic year a dissertation to fulfil their curricular requirements. These dissertations provide an opportunity for the final year students to engage in a cap-stone experience that allows them to demonstrate the skills they have acquired over the years of learning in the department. They conduct rigorous research in archives and libraries, through oral interview, or through observer-participation in the field to collect ethnographic material. This research is conducted in Kolkata, in other parts of the state and sometimes in other parts of India, depending on their research topic. At the beginning of the academic year, MA final students are asked to provide two proposed topics of research, accompanied by a preliminary survey of the source materials available. Thereafter the academic committee of the department meets to distribute the dissertations to supervisors, ensuring that the load is shared equally so that students might get the benefits of close guidance. Student choices of topics are sought to be matched as closely as possible to the expertise of faculty in the department. Throughout the year of work on the dissertation, students meet regularly with their supervisors, who monitor their progress. The result is original historical work and the aim is to produce analysis of near- or fully publishable quality.

- **Undergraduate Dissertations**

Beginning in the Even semester 2016, this exercise is being extended to BA final semester students. The same scholarly rigour will be required of their research project and it will be as closely supervised by members of faculty as the MA dissertations. The length of the project, however, is adjusted to the shorter time span they have in which to complete it (one semester).

To sum up, in terms of their dissertations, 100% of the MA final students and 100% of the BA final year students are engaged in intellectually demanding in-house research projects.

- **The Presidency Historical Review**

On 20 March 2015, the students of the department of history, with financial and mentoring help from the faculty of the department, launched an academic journal, the Presidency Historical Review, with both a print and an online edition. This journal features peer-reviewed articles by students both from within and outside Presidency University. Its editorial board includes some of the best known senior scholars in the field of history. The journal is edited and run entirely by students. The second issue of the journal was published in December 2015.

The web-site of the journal was launched 20 December 2014 by Professor Sugata Bose, Harvard University. It was preceded by a student-organised panel discussion on ‘The Relevance of a Students’ Journal in Contemporary Times’ with Professor Gautam Bhadra, Professor HariVasudevan and Dr. Bodhisattva Kar. The launch of the print edition of the journal, on 20 March 2015, was preceded by a student-organised seminar on ‘Ancient Monuments, Modern Perspectives’ with the speakers being Professor Tapati Guha-Thakurta and Dr. Sraman Mukherjee.

- **Students from the department of History who have been involved in faculty-led research projects (across departments):**

(1) Three with the UKIERI-sponsored project on “Narratives of Migration” with Dr. Souvik Mukherjee and Dr. Milinda Banerjee as co-ordinators. For details on project, please see annexure 1, “List of Research Projects in Last Four Years”. Names of Students: Anish Mitra (passed out from the PG programme in 2015), Sudipto Mitra (PG 2) and Purba Hossain (PG 2)



(2) Nine students with the Netherlands Embassy in India-sponsored project on “The Dutch Cemetery in Chinsurah: A Digital Archive of Memories” with Dr. Souvik Mukherjee and Dr. Milinda Banerjee as co-ordinators. For details on project, please see annexure 1, “List of Research Projects in Last Four Years”. Names of students: Sudipto Mitra (PG 2), Purba Hossain (PG 2), Anish Mitra (passed out from the PG programme in 2015), Arkamitra Ghatak (UG 3), Shuvatri Dasgupta (PG 1), Yash Saha, Ipsita Kaviraj (UG 3), Nilanjan Paul (UG 3) and Utsa Bose (UG 3)

● **Student participation in conferences/workshops at Presidency University:**

Sudipto Mitra (PG 2), “Fascist regimes and football: The case of Germany and Italy” in the conference Socio-political Cultures of FootBALL: Home and Away, organized by the Department of History, Presidency University, 21 January 2015.

The students of the department of History, in collaboration with the Department of History, Presidency University, organized a national two-day conference titled ‘Languages of Violence, Languages of Justice’ on 18-19 December 2014. Here students from the History dept., other departments at Presidency University and from other universities in India such as Jawaharlal Nehru University, New Delhi, presented papers Based on their research and also served as discussants for the various panels. The student participation was lively and professional and provided a platform to encourage new thinking and innovative scholarship.

- percentage of students doing projects in collaboration with other universities / industry / institute
- Various organisations and projects outside the university have found the students of our department to be excellent resource persons and intellectually active participants in their programmes. To name a few such students,

Manvi Agarwal (PG 1) has been working with the “Heritage & People of Chandernagore” project, initiated by Aishwarya Tipnis Architects, Delhi, in association with the French Embassy, VMF Paris and the Institut de Chandernagore. It looked at community mapping and oral history surrounding the urban landscape and built heritage. Ms. Agarwal was primarily responsible for collecting and archiving the community and building history, and organising a series of workshops for the local youth population. The website is due for release in late January 2016, but glimpses of their work can be viewed on: <https://www.facebook.com/Heritage-People-of-Chandernagore-694277737365318/?fref=ts> .

Ms. Manvi Agarwal is also currently involved with heritage conservation that takes her to Murshidabad, more specifically the Azimganj-Jiaganj area, where she is helping the Murshidabad Heritage Development Society to organise the Murshidabad Heritage Festival 2016. The team she is working with has nearly finished putting together the website, which can be viewed at [www.mhds.in](http://www.mhds.in). The next step after the festival is to access a central government grant to convert a heritage building (called the Naubatkhana) into a viable establishment, and to bring in Neerana Hotels to invest in a property there (this property will probably be the Marble House of the Srimalis in Azimganj).

Ms. Agarwal’s interests, beyond the purely curricular, takes her also to industry in which arena she is working with Webbies, a web development firm Based out of Kolkata. Their portfolio can be viewed at [www.webbies.co](http://www.webbies.co).

Ms. Somwrita Nag (UG 2) worked on the project titled ‘My Parents’ World – Inherited Memories’, jointly organized by the Goethe Institute, Kolkata and the Goethe Institute, Dhaka, in collaboration with the Centre for Studies in Social Sciences, Kolkata and Heidelberg University, Germany. For this, she also travelled to Dhaka in late August-early September 2015.#

Some students have worked closely with other journals, besides the Presidency Historical Review. For instance, Mr. Agnik Bhattacharya (PG 2) was the editor of the latest issue of Itibritta, which also includes his own work, besides that of other scholars. Itibritta, Vol. 11, 2015, ISSN: 2454-7441

## Presidency University

### ● Student engagement in conferences outside Presidency University

The students of the Department of History, have been active in presenting the fruits of their research and original thinking in conferences not only at Presidency University itself but also at conferences elsewhere.

Shuvatri Dasgupta presented a paper at a conference in JNU in September 2014.

Purba Hossain (PG 2) and Sudipto Mitra (PG 2), paper co-authored by the two students and Dr. Souvik Mukherjee (Department of English, Presidency University) titled “The Scottish in Bengal: Digitally Archiving a Cemetery,” International Workshop on Digitisation and Archiving, organized by the Sir Ratan Tata Fund for Collaborative Project between the School of Cultural Texts and Records, Jadavpur University and the British Library, UK, on Digitization of South Asian Archival Resources with the Society for the History of Authorship, Reading and Publishing (SHARP), Jadavpur University, 19 - 21 August 2015.

Arkamitra Ghatak (UG 3), ‘Kansa, the “beloved” demonic hero: a search for liminality in the Bargarh Dhanuyatra’, presented at the 8th Annual Debrupa Bal Memorial National Students’ Seminar on “Literary Studies and Performance: Indian Context”, organized by the Department of Comparative Literature, Jadavpur University, Kolkata, 29 September 2015.

### 29. Awards / recognitions received at the national and international level by Faculty

- o Swarupa Gupta, (Invited) Visiting Fellowship, Shivdasani Fellowship, Oxford Centre for Hindu Studies, University of Oxford, 2012
- o Mridu Rai, Visiting Research Scholar, Davis Centre for Historical Studies, Princeton University, USA, September 2010 to February 2011
- o Mohammad Sajjad Alam Rizvi, Guest Fellowship, Centre for the History of Emotions, Max Planck Institute for Human Development, Berlin (December 2013 to 2 January 2014)
  - Doctoral / post doctoral fellows
  - Students

### 30. Seminars/ Conferences/Workshops organized and the source of funding (national / international) with details of outstanding participants, if any. (provide List in annexure)

A full list of the lectures, workshops, seminars and conferences organised by the department of History is available at annexure 2. A perusal of that list demonstrates that the experts invited to them include some of the most renowned scholars in their field as well as younger scholars doing cutting-edge research.

### 31. Code of ethics for research followed by the departments

- o The faculty members of the department of history are punctilious in providing in their own research and teaching and in supervising the research of their students an ideology-neutral environment. As historians, they acknowledge that while some subjectivity is inevitable, the aim is to aspire to objectivity. While all perspectives—so long as they are argued rationally and are Based on credible sources—are welcomed, the department is dedicated to maintaining a vital Balance between the openness of academic freedom and the understanding that not all interpretations of the past should be valorized.
- o The department recognizes that understandings of the past change both over time and according to individual interpretations of both primary and secondary sources. The department also recognizes that historical explorations are neither entirely ‘value free’ nor haphazard in deciding how historical sources and writing should be utilized. As historians, however, the department’s faculty and students ascribe to certain common values that are themselves also evolving along with changing political, economic, social, as well as intellectual contexts. These values form the core of what they understand to constitute ethical historical research.

- o Therefore, the department of history at Presidency University is committed to
  - free and open inquiry, observing the principle of academic freedom;
  - preserving the integrity of the historical record, never counterfeiting, destroying, doctoring or concealing sources or evidence;
  - properly acknowledging all primary sources and the works of other scholars;
  - hearing , with respect, differing interpretations, even as these are subjected to critical examination.
  - recognizing the contributions of collaborators and students;
  - using unpublished work of other researchers and scholars only with permission and with due acknowledgment;
  - using archival material in accordance with the rules of the archival source;
  - in publishing, or presenting otherwise their research, leaving a clear “trail”, through footnotes and citations, for subsequent historians either to follow or to verify their findings.
  
- o In their research, many members of faculty, and the students they guide, work in areas of social, cultural and political sensitivity. They are careful to preserve the anonymity of subjects who provide information as well as to observe the sensitivities of subjects interviewed. They ensure that their research does not injure the dignity, safety or privacy of the people about whom they research. They respect the culture, traditions and knowledge of the groups and communities they work with. They also make the best efforts to ensure that their research respects the many viewpoints of different segments of the group or community in question.

**32. Student profile programme-wise:**

Year	Name of the programme	Applications received	Selected		Pass percentage	
			(wrto previous year results)			
			Male	Female	Male	Female
2015	UG	422	11	24	100%	100%
	PG	360	8	23	100%	100%
2014	UG	586	18	17	100%	100%
	PG	362	12	20	100%	100%
2013	UG	479	12	21	100%	100%
	PG	144	11	20	100%	100%

**33. Diversity of students**

Name of the programme (refer to question no. 4)	% of students from the same university	% of students from other universities within the State	% of students from universities outside the State	% of students from other countries
PG 1	61.28%	38.71%	0	0
PG 2	71.86%	25%	3.12%	0

**34. How many students have cleared Civil Services and Defense Services examinations, NET, SET, GATE and other competitive examinations? Give details category-wise.**

## Presidency University

### 35. Student progression (provide List in annexure)

Student progression	Percentage against enrolled
UG to PG	98%
PG to MPhil	–
PG to PhD	5%
PhD to Post-Doctoral	–
Employed ● Campus selection ● Other than campus recruitment	Pass outs get employment in academics, media, corporate sectors and civil services
Entrepreneurs	

### 36. Diversity of staff

Percentage of faculty who are graduates THIS IS Based ON THE HIGHEST DEGREE OBTAINED.	
of the same university (Graduates from Presidency College)	40%
from other universities within the State	22%
from universities from other States from	11%
universities outside the country	67%

### 37. Number of faculty who were awarded MPhil, PhD, D.Sc. and D.Litt. during the assessment period: Four.

- Prabhat Kumar, PhD, University of Heidelberg, 2015
- Milinda Banerjee, PhD, University of Heidelberg, 2014
- Deepa Khakha, PhD, Jawaharlal Nehru University, 2012
- Mohammad Sajjad Alam Rizvi, PhD, Freie Universität, Berlin, 2012

### 38. Present details of departmental infrastructural facilities with regard to

- Library:** Arts Library currently in the process of upgradation. The Department of History also maintains its own seminar library, providing regular access to students to more recent publications not immediately available in the Arts Library.
- Internet facilities for staff and students:** Access to wireless internet on campus.
- Total number of classrooms:** 3
- Class rooms with ICT facility:** 0
- Students' laboratories:** Not applicable
- Research laboratories:** Not applicable

### 39. List of doctoral, post-doctoral students and Research Associates

- from the host institution/university:** 1 doctoral student, Ms. Swagata Mukhopadhyay
- from other institutions/universities:** 10 doctoral students

**40. Number of postgraduate students getting financial assistance from the university.**

For the academic years 2013-14 and 2014-15: 1 student

**41. Was any need assessment exercise undertaken before the development of new programme(s)? If so, highlight the methodology. No**

**42. Does the department obtain feedback from**

**a. faculty on curriculum as well as teaching-learning-evaluation? If yes, how does the department utilize the feedback?**

The department conducted two syllabus workshops, one on 30 June 2014 and another on 2 November 2015 to which it invited eminent external experts from the field. The first workshop was led by Professor Nayanjot Lahiri (Delhi University) and Professor Raziuddin Aquil (Delhi University). The second was led by Professor Seema Alavi (Delhi University) and Professor Upinder Singh (Delhi University). The first workshop led to a major revision of the courses the department offers in Ancient history. The second has produced a thorough revision of the entire curriculum, which will take effect in the new academic year, beginning in the Odd semester 2016.

**b. students on staff, curriculum and teaching-learning-evaluation and how does the department utilize the feedback?**

Last year, the university began--to be instituted as a regular practice-- the eliciting of student feedback on courses taught in the various departments. This culling of information is extremely useful for the members of faculty in strengthening or altering their current practices of teaching and updating the kinds of courses taught to reflect the interests of students while maintaining academic rigour in its curriculum. With more such exercises, the department is confident of producing a curriculum that is both academically sound while also being in line with new and continuously evolving student priorities and interests.

**c. alumni and employers on the programmes offered and how does the department utilize the feedback?**  
No.

**43. List the distinguished alumni of the department (maximum 10)**

**Please note that this list refers to eminent alumni from the recent past.**

- o Sumit Sarkar, Professor of History (Retd.), Delhi University
- o Tanika Sarkar, Professor of History (Retd.), Jawaharlal Nehru University
- o Sugata Bose, Gardiner Professor of Oceanic History and Affairs, Harvard University, USA and Member of Parliament, Lok Sabha.
- o A.F. Salahuddin Ahmed, Professor (retd.) of History, Dhaka University; awarded the Ekushe Padak by the government of Bangladesh
- o Suranjan Das, former Vice-Chancellor, University of Calcutta, currently Vice-Chancellor, Jadavpur University, Kolkata
- o Jayanta Sengupta, formerly Curator, Victoria Memorial Hall, Calcutta, currently Director, Indian Museum
- o Ranajit Guha, eminent historian and founder of the influential Subaltern Studies School of Historiography
- o Justice Altamas Kabir, Former Judge, Supreme Court of India
- o The late Ashin Das Gupta, Padma Shri, Vice-Chancellor, Visva-Bharati University, Santiniketan
- o The late Tapan Raychaudhuri, Padma Bhushan, ad hominem professor of Indian History and Civilisation, University of Oxford

**44. Give details of student enrichment programmes (special lectures / workshops / seminar) involving external experts. (provide List in annexure)**

- The department of History has regularly organised lectures, workshops and seminars to help students broaden their knowledge beyond that which they obtain in their regular classes and through the department faculty. These programmes have been led by renowned national and international scholars. Often initiated by the students themselves and sometimes entirely organized by them, they have been thoroughly encouraged and supported by the department's faculty. All the events have been well-attended and the students have engaged with them with vivacity, intellectual curiosity and their analytical and critical faculties on full display. For a full list of these events, please refer to annexure 2 of this document.

**45. List the teaching methods adopted by the faculty for different programmes.**

- The department follows a multi-pronged teaching approach, balancing a curriculum which can equip the students for careers anywhere, in academia or outside (following all-India requirements in this regard), with a sharp focus on developing cutting-edge research potential among students, to make them nationally and Globally competitive.
- Teaching combines standard lectures (accompanied by visual and audio-visual aids) with student-focussed interactive sessions, discussions, and presentations, including analysis of primary texts by students to equip them for research.
- Focus is also placed on interdisciplinary approaches to studies, with faculty members collaborating with faculty from other departments to carry out joint classes and discussions.
- Department members often take part in national and international conferences, and the department itself also often organizes conferences and workshops. Every year the Department organizes a number of special seminars and lectures, including the Professor Kuruvila Zachariah Memorial Lecture and the P.C. Sen Memorial Lecture. In collaboration with the Paschimbanga Itihas Sansad, Kolkata, it organizes every year the Professor S. C. Sarkar Memorial Lecture. Students are thus exposed to the excitement of academic debates and discussions from their first undergraduate year itself. Student presentations, workshops and essays enable the students to put forward their own perspectives before their peers and before the faculty.
- The department also conducts annually an educational trip to historical places in India, such as to Udaipur, Jaipur, Delhi, Agra, Ajanta, Ellora, Jabalpur, and Murshidabad.
- The faculty members of the department of history are punctilious in providing in their teaching an ideology-neutral environment for learning. As historians, they acknowledge that while some subjectivity is inevitable, the aim is to aspire to objectivity. While all views encountered in their discussion of particular themes in history are made available, students are assiduously encouraged to arrive at their conclusions on their own after sifting through a variety of different perspectives. All perspectives from students--so long as they are argued rationally and are Based on credible sources--are welcomed.
- The department of History follows a zero tolerance policy on plagiarism and cheating. Given that students are also assessed, during mid-term, on the basis of take-home assignments, they are given clearly to understand that these are individual exercises that must reflect this. Any replication of another student's work even for a take-home assignment is deemed to constitute copying and is penalized accordingly. These policies are spelled out clearly for students at the beginning of the course and throughout their educational careers at Presidency University.
- The department is sensitive to the fact that many of its students come from underprivileged Backgrounds, or with proficiencies in languages other than English, carrying with them attendant difficulties in learning and performing their tasks. Every effort is made to meet with students of every Background to facilitate their understanding of course themes and materials and also with written or oral assignments.

- Apart from having these specific academic objectives, the broader aim of the Department is to help students to become socially-aware citizens so that they can use the conceptual resources provided by the study of the distant as well as proximate past (of India and of the wider world) to better understand the universe around them, and to negotiate with that world in a socially responsible manner, deploying, among other things, the analytical techniques offered to them by classroom teaching and interactions. Pedagogic methods followed in the Department are tailored to these broader civic concerns.

**46. How does the department ensure that programme objectives are constantly met and learning outcomes are monitored?**

- In addition to formally structured class lectures, the students are extremely excited about fruitful interactions with faculty members in the form of tutorials, colloquia, and student seminars. Experts in the discipline, both from India and from abroad, are regularly invited to present lectures or lead workshops both to expose students to new and exciting work as well as to learn from the more senior and established scholars in the field of history. For a fuller description of these activities, please see annexure number 2.
- Such activities are complemented by every encouragement given to the students of the department to engage in fieldwork and regular visits to archives and museums to add to the work they already perform within the classroom. As discussed in response to Q. 28, in the segments on the MA and BA dissertations, these aspects of learning the historian's disciplinary methods are rigorously tested during the writing of these dissertations but are also strongly encouraged in the writing of regular term papers.
- The practice of eliciting oral presentations in the classroom ensures also that students engage not only with the instructors of their courses but also learn the invaluable skills of forming and challenging their ideas in conversation with each other.
- The university also began, and expects to make it a regular practice in accordance with the university's norms, anonymous student feedback on courses taught. This will help the faculty members better appreciate the students' ideas and priorities, their concerns, and will be crucial for revising contents and pedagogic methods adopted in their courses, if necessary.
- The department holds regular Board of Studies-Faculty meetings as well as minuted teacher-student meetings, so that students view themselves as stake-holders in the process of learning.
- As mentioned earlier, periodic and thorough revision of the syllabi of the department are an important part of the programmematic goals of the department. The most recent revisions were prompted through two syllabi workshops held, one in June 2014 and the second on 2 November 2015 that have produced a curriculum much more in tune with modern historical and historiographical trends and debates.

**47. Highlight the participation of students and faculty in extension activities.**

- Please see response to question 48. Students are engaged in extension activities through NSS programmes and various extracurricular programmes of the university.

**48. Give details of "beyond syllabus scholarly activities" of the department.**

- The members of the faculty of the department of History have been engaged with wider concerns that stretch their learning and viewpoints beyond the classroom and the university. A sample of these are provided below.
- Dr. Mohammad Sajjad Alam Rizvi extends his academic expertise by providing outreach advice to community institutes (e.g. madrassahs) and discusses career prospects with students at the various madrassahs, provides advice on how to conjoin madrassa learning with mainstream education, and helps design syllabi at the madrassahs. He also regularly joins community events and programmes to discuss contemporary issues relating to the Muslim community and to minority issues of various kinds. He has also commented on contemporary issues through programmes on Akashvani.

## Presidency University

- Dr. Prabhat Kumar has frequently written on matters of broader social concern in journals such as the Economic and Political Weekly (Kumar, P., 2014, 'The Smell of Everyday City Life: Reflections on the Lunchbox,' Economic and Political Weekly, vol XLIX, no 3, pp. 26-27). He is also a contributor to widely read blogs such as Kafila on topical issues as diverse as controversial cartoons, films as they reflect the workings of the Indian state's apparatus or on ongoing tensions in international relations as well as on the political use of 'unparliamentary' language.
- Prof. Mridu Rai is an occasional contributor to journals and newspapers such as Al-Jazeera, Greater Kashmir and the Kashmirwalla writing on subjects such as the ongoing resistance movement/militancy in Kashmir, the importance of certain acts of memorialization in Kashmir or the plight of refugees from Kashmir. She has also contributed to debates of contemporary relevance on Kafila.
- Within the university itself, faculty from the history department have been regularly invited by students to participate in panel discussions, to write in the student journal and to serve as judges for competitive student activities such as in debates.

### 49. State whether the programme/ department is accredited/ graded by other agencies? If yes, give details.

No

### 50. Briefly highlight the contributions of the department in generating new knowledge, Basic or applied.

The faculty of the department of History have made their mark in various ways in opening new fields of enquiry in the field of History. They have disseminated this new knowledge through publications and through sharing the results of their explorations in as invited speakers to give lectures, in conferences and seminars both in national and international arenas.

### 51. Detail five major Strengths, Weaknesses, Opportunities and Challenges (SWOC) of the department.

#### Strengths:

- i) The Department of History has a rich heritage of about 200 years. It is initiating and continuing novel and inter-braided pedagogic and research methods, having a Global reach.
- ii) The department has designed collaborative research facilities at both intra, and inter-departmental levels, as well as involving international institutions underscoring interdisciplinarity. This has resulted in the forging of academic networks.
- iii) The department has the potential and expertise to set up specialised centres recognised by state and national governments. This will initiate and sustain academic dialogues at intra, inter-university, and international levels.
- iv) The department has a rich student quality Base. This is ensured by competitive admission tests. In their road towards excellence in learning, the faculty provides individualised and group-mentoring. This serves as a Basis for making them excel in whichever field they wish to work in.
- v) The department intends to open fresh avenues for disseminating historical practices beyond classroom walls. To shape common sense oriented public histories, the department, as part of the university's bicentennial celebrations, plans to initiate a lecture series for non-specialist audiences, and an oral history project about the institution.

#### Weaknesses:

- i) There is a lack of adequate infrastructural facilities, e.g. inadequate number of classrooms and, library resources (including online access to important journals) which the competent authorities of the university are striving to address.



- ii) The department is currently understaffed but it is aware that the university authorities are in the process of recruiting new faculty members.
- iii) There is one limitation in the department's pedagogic field. Otherwise talented students, well-versed in vernacular languages, have difficulties in discerning intricacies of the discipline. This is because a large number of primary and secondary sources are in English,

**Opportunities:**

- i) The department is involved in collaborative research initiatives with other academic departments at the university as well as other international institutions, e.g. the University of Cambridge. This opens up opportunities for students and faculty members to forge academic networks. The department intends to initiate similar collaborative ventures with other international institutions as well.
- ii) Given adequate logistical and related opportunities, members of the faculty at the department are keen to develop projects funded by external funding bodies. The department would welcome concrete opportunities in this field, including in both facilitating faculty research as well as opening a new ideational space for vibrant student interactions.

**Challenges:**

- i) We understand that rendering literature in the English intelligible for students not especially conversant in the language is a challenge. This is being addressed by the faculty of the Department of History, which wishes to intersperse English lectures with vernacular teaching, thus enabling students to engage more critically with the themes and courses taught.
- ii) The department feels the need to introduce language instructors in especially classical languages such as Arabic, Persian, Sanskrit etc., and other modern vernacular languages that will help students and faculty members in their research activities.
- iii) It is often not easy to introduce student-led discussion programmes within the existing overarching pedagogical framework. The department recognises the value of critical thinking and students' active engagement in classrooms, but is also aware that entirely student-led colloquia is sometimes difficult to accommodate within this existing framework. The department understands that this is a challenge, but is also dedicated to pedagogic innovation nevertheless.
- iv) To bring out the best in talented students aspiring to do their Doctoral research at the department, we have decided to institute a History orientation programme (akin to other well-known international such as SOAS, University of London) which will give the students an initial and deep methodological ability to grapple issues which would surface in their PhD theses.

**52. Future plans of the department.**

At present the Department of History is poised between its past glorious tradition and an exciting and enriching future. In the department, the discipline of History has widened its scope to include original historical research, multifaceted student participation, and collaborative ties at national and international levels. This would be done with a view to creating a mutually-productive Balance between research and teaching. Specifically, the department intends to concentrate on the following:

- 1. As the departmental thrust area includes thinking History Globally, the department plans to open new vistas of Global historical connections at two main levels: (a) Student Exchange programmes, enabling students of Presidency University to visit internationally-renowned foreign universities, and bringing foreign students to Presidency for one or two semesters. This would result in a culturally productive dialogical discourse cutting across geographical as well as disciplinary boundaries (interdisciplinary perspectives undergirding

## Presidency University

historical teaching and research), enriching students' knowledge in Globally competitive environments; and (2) Fellowships awarded to faculty members who would demonstrate their excellence in various Global forums and platforms.

2. The student and faculty exchange programmes mentioned above would be expedited by the fact that Presidency University has signed Memoranda of Understanding with renowned universities such as the University of Cambridge, United Kingdom; the University of St Andrews (in Scotland): United Kingdom. It has also established connections with the University of East Anglia, United Kingdom. Such interactions would concretely build up a resource of lectures.
3. The Department of History along with the Department of Sociology, Presidency University has planned to set up a centre entitled 'Centre for Religious Studies'. It will receive funds for its intellectually stimulating work within, and across departmental lines.
4. At present, the department is developing original research methods through the dissemination of visual material, visits to archives, and garnering primary sources. In this regard, the department has set up a Seminar Library, which will benefit students as well as faculty. The access to rare archival sources under the dynamic leadership of experts in the field will guide them in this endeavour. This programme / idea is Based upon induction of fresh, young talent, and serious scholars, whose combined academic strength would help the History department excel in various pathways to the future.
5. The department will convene syllabus workshops (of which two have already been organised). As the thrust of the department is Global history (without erasing particularisms), it will expedite formal and informal scholarly exchange programmes for faculty and advanced students. The aim of such workshops would be to Balance the courses taught, and deploy fresh paradigms to re-structure some parts of the existing syllabi. We now intend to hold such workshops more regularly, so that students will be given more time to understand them, and the will scale new heights as far as novel pedagogy is concerned.
6. The department will encourage students to participate in inter-university platforms and other forums, in the form of debates, quiz, and other cultural programmes. Such extra-curricular activities would complement their learning processes, which is actually a composite phenomenon, indispensable for inculcating a team spirit. This will bring out talents of the students, which will make them excel in whichever field they intend to work in.
7. The department intends to apply for Departmental Special Assistance / DSA (in line with UGC norms), and Departmental Research Support / DRS, both of which are part of the Special Assistance programme (SAP).
8. Infrastructural problems would be addressed. We intend to increase the number of classrooms, some of which would be e-classrooms. All classrooms (funds permitting) will have state of the art equipment, including microphones. The department also intends to use audio-visual equipment, and use smart white boards, digital dataBases, and primary source records in microfilm and microfiche. Student as well as faculty research would benefit from the use of such material.
9. Finally, the department wishes to contextually shift from History taught within classroom walls, and pave the way for disseminations of public histories. These would shape wide-ranging and nuanced understandings of History verging on, and sometimes moving beyond commonsense perceptions. The endeavour would open a window to the many worlds of Indian and world histories, which would be made available for a large segment of lay audiences, whose understandings may be vital for History specialists to rethink certain key historical issues which affect society at large. This programme: conjoining historical pasts and contemporary historical modernities may enable us to move from the world in which we live, to the world which is to come.

**ANNEXURES**

**1. List of Research Projects in Last four Years**

Sl. No	Year of Initiation	Year of Completion	Funding agency	PI	Title	Fund Sanctioned	Fund Received	Completed / ongoing
1	2011	2013	Bundesministerium fuer Bildung & Forschung (BMBF: Federal Ministry of Education & Research, Germany)	Soumen Mukherjee: Post doctoral Researcher, Based at Zentrum Moderner Orient, Berlin as, wissenschaftlicher Mitarbeiter	Of 'Faith' and Faith-Based Organisations (FBoS): The Case of the Aga Khan Development Network (AKDN) in Post-Colonial India	Salary to Research fellow: approx. Euros 2000 p.m.	Salary to Research fellow: Approx. Euros 2000 p.m.	Completed
2	2013	2016	Cluster of Excellence "Asia and Europe in a Global Context", Karl Jaspers Centre for Advanced Transcultural Studies, Heidelberg University, Germany	Milinda Banerjee, participant. This is a research fellowship, within a broader research project: Junior Research Group 'Transcultural Justice: Legal Flows and the Emergence of International Justice within the East Asian War Crimes Trials, 1946-1954', led by Dr Kerstin von Lingen (Heidelberg University).	An Intellectual History of the Tokyo Trial: Judge Radhabinod Pal and Debates on International Justice	N/A	N/A	Ongoing

Sl. No	Year of Initiation	Year of Completion	Funding agency	PI	Title	Fund Sanctioned	Fund Received	Completed / ongoing
3	2014	2014	Netherlands Embassy in India	Souvik Mukherjee (Department of English, Presidency University) & Milinda Banerjee as Historical Research Advisor	The Dutch Cemetery in Chinsurah: A Digital Archive of Memories	N/A	N/A	Completed
4	2014	2016	UKIERI: UK-India Education and Research Initiative	Milinda Banerjee PI for the Francophone strand. The broader project, 'Narratives of Migration', Bengal, Britain and France co-ordinated by Souvik Mukherjee (Department of English, Presidency University) in 2014-15 and co-ordinated by Milinda Banerjee as of 2015.	Eighteenth Century Exchanges in Political Imaginaries between Bengal, Britain and France	N/A	N/A	Completed

**2. List of Seminars, Conferences and Lectures organized in last three years**

Date/ Month	Topic	Source of Funding	Status (Local/State/ National Level) (Student enrichment programme)
23 December 2015	Conversation with Professor Geraldine Forbes, Women's and Gender Studies. Participating: faculty and students of the department of History	Department of History, Presidency University	International. Initiated by the students of the department of History
16 November 2015	Lecture: Dr. Utsa Ray, 'Global Food and Capital'	Department of History, Presidency University	Local. Student enrichment.

<b>Date/ Month</b>	<b>Topic</b>	<b>Source of Funding</b>	<b>Status (Local/State/ National Level) (Student enrichment programme)</b>
7 October 2015	Lecture: Professor Kapil Raj, 'Managing Intercultural Encounter in the Early Decades of Calcutta's History, 1690-1750'	Department of History, Presidency University	International. Student initiated lecture. Student enrichment.
29 September 2015	Kashish Forward, a traveling festival of films to raise LGBTQ+ awareness. Screening of films by director Sridhar Rangayan, followed by a panel discussion with him, Professor Mridu Rai (Department of History, Presidency University), Dr.Milinda Banerjee (Department of History, Presidency University) and students of Presidency University	Department of History, Presidency University	National. Student enrichment; specifically to raise LGBTQ+ awareness on campus
11 September 2015	Workshop: Professor Dr Anja Senz of the Sinology Institute of Heidelberg University, Germany, met with students and faculty colleagues from Presidency University to discuss Indian politics and economy as well as international relations between India and its neighbouring countries, including Bangladesh, Myanmar, and China.	Department of History, Presidency University	International. Student enrichment.
20 March 2015	Seminar: 'Ancient Monuments, Modern Perspectives'. Speakers, Professor Tapati Guha-Thakurta and Dr.Sraman Mukherjee	Department of History, Presidency University	National. Student enrichment programme. Linked to the launch of the print edition of the student peer-reviewed journal, Presidency Historical Review
18 March 2015	Lecture: Aparna Banerjee Chakraborty, 'A Brief Note on Hegel's Philosophy of History'.	Department of History, Presidency University	Student enrichment programme.
3 March 2015	Lecture: Ms. Monika Freier, 'Civility and Its Translations in Hindi Advice Manuals'	Department of History, Presidency University	International. Student enrichment.
Date?	Lecture: Dr. Diego Olstein, 'Thinking History Globally'	Department of History, Presidency University	International. Student enrichment.
February 2015	Lecture: Dr. Pratyay Nath, 'Under the Veil of Indulging in Hunting: Empire and the Royal Hunt in Mughal North India'	Dept. of History, Presidency University	National. Student enrichment.
22 January 2015	Kuruwila Zachariah Memorial Lecture 2015: Professor Ayesha Jalal, 'Islam is the Ocean: Indian Muslim Travel Narratives in the Age of Empire'	Department of History, Presidency University	International. Student enrichment.
21 January 2015	Seminar: 'Socio-political Culture of FootBALL: Home and Away'	Dept. of History, Presidency University	Student seminar.

<b>Date/ Month</b>	<b>Topic</b>	<b>Source of Funding</b>	<b>Status (Local/State/ National Level) (Student enrichment programme)</b>
11 January 2015	Lecture: Dr. Nitin Sinha ‘Railway Imperialism: A “Global” History of Jamalpur’	Department of History, Presidency University	International. Student enrichment.
20 December 2014	Panel discussion: ‘The Relevance of a Student’s Journal in Contemporary Times’ with Professor Gautam Bhadra, Professor Hari Vasudevan and Dr . Bodhisattva Kar	Dept. of History, Presidency University	Local. Student enrichment programme. Linked to the launch of the print edition of the student peer-re- viewed journal, Presidency Historical Review
18-19 December 2014	‘Languages of Violence, Languages of Justice’	Department of History, Presidency University	National. Student organized two-day national conference. Geared towards student enrichment.
15 December 2014	Professors Sumit Sarkar, Tanika Sarkar and Dipesh Chakrabarty in conversation with Professor Mridu Rai	Department of History, Presidency University	International. Geared towards student enrichment
16 December 2013	Lecture: Dr. Kris Manjapra, ‘Age of Entanglement’	Department of History, Presidency University	International. Student enrichment.
4 November 2013	Lecture: Dr. Jon Wilson, ‘The Banality of Empire: The Chaos of Conquest and Search for a Colonial Order’	Department of History, Presidency University	International. Student enrichment.
25 September 2013	Lecture: Dr. Hitendra K. Patel, ‘The Hindu-Muslim Divide, Communalism and the Intelligentsia in Colonial India (1870s-1930s): Some Reflections’	Department of History, Presidency University	Local. Student enrichment.
3 September 2013	Concepts, Communities, Practices: Rethinking the Transnational	Department of History, Presidency University	International . Student enrichment.
19 August 2013	Lecture: Prof. Alok Roy, ‘Banglar nabajagoron of Sushobhan Sarkar’	Department of History, Presidency University, co- organised with Pas chim BAnga Itihas Samsad	National. Student enrichment.
25 July 2013	Lecture: Professor Frederick M. Asher, ‘India’s Global Exchanges in the Premodern World’	Department of History, Presidency University	International. Student enrichment.
15 March 2013	Lecture: Prof. Robert S. Anderson, ‘Meghnad Saha as a Nuclear Negotiator’	Department of History, Presidency University	International. Student enrichment.
15 January 2013	Lecture: Prof. Chandak Sengupta, ‘The Making of a Modern Artisan: Upendrakishore Ray and the “Folly” of Colonial Modernity’	Department of History, Presidency University	International. Student enrichment.

Date/ Month	Topic	Source of Funding	Status (Local/State/ National Level) (Student enrichment programme)
3 January 2013	Lecture: Dr. Samia Khatun, 'Reading Place: Aboriginal Language Stories about South Asian Cameleers, 1860-1930'	Department of History, Presidency University	International. Student enrichment.
2012 (no record of precise date)	Lecture: Professor Rajat Kanta Ray, 'Rabindranather Jibandevata'	Department of History, Presidency University	Local. Student enrichment.
2012 (no record of precise date)	Lecture: Masood Akhtar, 'M.S. Sathyu'	Department of History, Presidency University	National. Student enrichment.
2012 (no record of precise date)	Lecture: Ana Jelnicar, 'In Green India: Universalist Hopes from the Margins of Europe, Rabindranath Tagore and Srecko Kosovel'	Department of History, Presidency University	International. Student enrichment.

3. Seminar workshops attended by teachers of the Department in last three years (chronologically)

Sl. No.	Title of the Seminar	Date	Organized by	Status (National/ International)	Role as Resource Person/Invited Speaker
<b>Name of the Teacher : Dr.Milinda Banerjee</b>					
1	'Violence, Death, and Survival – World War II in an Age of Globalization'	22-24 Nov 2015	Hebrew University of Jerusalem	International	Invited speaker
2	'India's Critical Tradition and Maulana Azad'	6-7 Nov 2015	Maulana Abul Kalam Azad Institute of Asian Studies, Kolkata	National	Invited speaker
3	'Winning their Trust and Affection: Royal Heirs and the Uses of Soft Power in 19th-Century Europe'	28-29 August 2015	University of St Andrews	International	Invited speaker
4	'Empire and Natural Law: The Tokyo Trial from Perspectives of Comparative Political Thought'	28 April 2015	School of Oriental and African Studies (SOAS), University of London	International	Invited speaker (Invited lecture)
5	'From the Early Modern to the Digital: (Re-) Presenting an Indian Kingdom before 'Global' Audiences'	24 April 2015	University of St. Andrews	International	Invited speaker (Invited lecture)

## Presidency University

Sl. No.	Title of the Seminar	Date	Organized by	Status (National/ International)	Role as Resource Person/Invited Speaker
6	'(De-) Colonizing Knowledge: Figures, Narratives, and Practices'	16-17 Feb 2015	Freie Universitaet Berlin	International	Invited speaker
7	'Bengal in Asia, Asia in Bengal',	23-24 January 2015	Netaji Research Bureau, Kolkata	International	Invited speaker
8	'Rethinking Justice? Decolonization, Cold War, and Asian War Crimes Trials after 1945'	26-29 Oct 2014	Heidelberg University	International	Invited speaker
9	'The Politics of Colonial Comparison'	29 Sept 2014	University of Oxford	International	Invited speaker
10	'Renovatio, Inventio, Absentia Imperii: From the Roman Empire to Contemporary Imperialism'	11-13 Sept 2014	Academia Belgica of Rome, the Belgian Historical Institute in Rome, and the Princess Marie-Jose Foundation	International	Invited speaker
11	Fourth European Congress on World and Global History	4-7 Sept 2014	Ecole normale supérieure, Paris	International	Invited speaker
12	Tenth European Social Science History Conference	23-26 April 2014	University of Vienna	International	Invited speaker
13	'The Historical Origins of International Criminal Law'	1-2 March 2014	Forum for International Criminal and Humanitarian Law and Peking University International Law Institute	International	Invited speaker
14	'The Dutch in Bengal'	25 Feb 2014	Dutch Embassy in India, the Department of Tourism, Government of West Bengal, and Presidency University	International	Invited speaker
15	'Eastern Resonances'	5-7 Dec 2013	University of Paris 7 and University of Montpellier 3	International	Invited speaker
16	National Seminar on Vivekananda	26-27 Nov 2013	Institute of Historical Studies, Kolkata, and Sri Aurobindo Samiti, Kolkata	National	Invited speaker



Sl. No.	Title of the Seminar	Date	Organized by	Status (National/ International)	Role as Resource Person/Invited Speaker
17	'Writing World History'	11 Nov 2013	Institut de Chandernagore	International	Invited speaker
18	'Managing Empires: Cooperation, Competition, Conflict'	9-11 Oct 2013	Heidelberg University	International	Invited speaker
19	'Negotiating Ethnicity: Politics and Display of Cultural Identities in Northeast India'	4-6 July 2013	Institute for Social Anthropology and Phonogrammarchiv, Austrian Academy of Sciences, Initiativkolleg, 'Cultural Transfers and Cross-Contacts in the Himalayan Borderlands', Department of South Asian, Tibetan and Buddhist Studies, University of Vienna, and the Indian EmBAssy in Austria	International	Invited speaker
20	'Transcultural Justice: Decolonization and Cold War and its Impact on War Crimes Trials and International Law after 1945'	27-28 June 2013	Heidelberg University	International	Invited speaker
21	'Cultural Heritage and Museum Studies'	16 April 2013	Indian Museum, Kolkata	National	Invited speaker
22	'Relevance of Swami Vivekananda's Thoughts in India Today'	9 March 2013	AcharyaPrafulla Chandra College, Kolkata	National	Invited speaker
23	'Postcolonial Studies, Subalternity, and Global Connections: Complicating the Genealogies of South Asian Modernities' at Refresher Course	27 Feb 2013	Department of Political Science, University of Calcutta	National	Invited speaker (invited lecture)
<b>Name of the Teacher : Professor Rupendra Kumar Chattopadhyay</b>					
24	Society in the Epigraphs of Eastern India	April 2015	The Asiatic Society, Kolkata, and Department of Sanskrit, Burdwan University	National	Invited speaker for Valedictory Address

**Presidency University**

<b>Sl. No.</b>	<b>Title of the Seminar</b>	<b>Date</b>	<b>Organized by</b>	<b>Status (National/ International)</b>	<b>Role as Resource Person/Invited Speaker</b>
25	Refresher Course in History (thrust area: Class, Community and Gender in South Asia)	April 2015	Academic Staff College, University of Calcutta and Department of History, University of Calcutta	National	Invited speaker
26	The Relevance of Archaeology for the Study of Ancient Indian History	Feb 2015	Department of History, S.C.S. Autonomous Collage, Puri, Orissa	National	Invited speaker
27	Harappan Civilization: Conservation, Inventorization, Study and Research of the Skeletal Remains	Feb 2015	Anthro-pological Survey of India, Kolkata	National	Invited speaker
28	Bicentenary of the legendary Mathematician, Surveyor and Trigonometrician Babu Radhanath Sikdar	May 2014	The Asiatic Society, Kolkata and the Forum of Survey Engineers and Technologists, West Bengal	National	
29	Refresher Course in Information Management and Research Methodology	March 2014	The UGC- Academic Staff College and the Department of Library and Information Science, University of Calcutta	National	Invited speaker
30	Recent Advances in Archaeological Science & Indian Archaeology	Dec 2013	Indian Archaeological Society, New Delhi and Banaras Hindu University Varanasi	International	Invited speaker
31	Heritage, Visuality and Museology	Nov 2013	Department of Museology, University of Calcutta and Indraprastha Museum of Art & Archaeology, New Delhi (Indian Archaeological Society) & Department of Archaeology, University of Calcutta	International	Invited speaker
32	Recent Archaeological Excavations in Eastern India	Nov 2013	The Directorate of Archaeology, Department of Art, Culture & Youth, Bihar	National	Invited speaker

Sl. No.	Title of the Seminar	Date	Organized by	Status (National/ International)	Role as Resource Person/Invited Speaker
33	Indian Art and Literature: A Dialogue	Oct 2013	22nd Annual conference of Indian Art History Congress at Mumbai	National	Invited speaker
34	Archaeology and Cultural Diversity	Nov 2012	Indian Archaeological Society, New Delhi and Department of Archaeology and Ancient History, The Maharaja Sayajirao University of Baroda	National	Invited speaker
35	Indian Art and Religion: An Interactive Approach	Nov 2012	21st session of the Annual Conference of the Indian Art History Congress at Kolkata	National	Invited speaker
36	Archaeology of Bhadrak	Feb 2012	Department of History, Chandbali College, Bhadrak, Odisha	National	Invited speaker
<b>Name of the Teacher : Dr. Swarupa Gupta</b>					
37	Workshop/Conference on 'Sharpening the Edges: Instating State and Power in Indian Ocean History'	17 August 2015	University of Leiden, International Institute of Asian Studies, Amsterdam, The Netherlands and Princeton University, USA	International	Invited speaker
38	Shivdasani Lectures, Oxford Centre for Hindu Studies, University of Oxford	26 Nov 2012	Oxford Centre for Hindu Studies, University of Oxford	International	Invited speaker
39	Shivdasani Lectures, Oxford Centre for Hindu Studies, University of Oxford	29 Oct 2012	Oxford Centre for Hindu Studies, University of Oxford	International	Invited speaker
40	Conference / Workshop, 'Ritual Journeys'	30 July 2012	University of Heidelberg (Sudasien Institut)	International	Invited speaker
<b>Name of the Teacher : Mr. Kishan Harijan</b>					
41	'Transcultural Encounters in the Himalayan Borderlands'	5-8 March 2015	University of Heidelberg at Himalayan Hotel, Kalimpong	International	Invited speaker
42	Concepts, Communities, Practices: Rethinking the Transnational	3 Sept 2013	Department of History, Presidency University, Kolkata in collaboration with Trinity College, Dublin	International	Co-organiser and paper presenter

Sl. No.	Title of the Seminar	Date	Organized by	Status (National/ International)	Role as Resource Person/Invited Speaker
<b>Name of the Teacher : Dr. Deepa Khakha</b>					
43	'State, Society and Economy in Pre Colonial and Colonial India'	26-27 Nov 2013	Department of History, Vidyasagar University, Midnapore, West Bengal, in collaboration with Aliah University, Kolkata	National	Paper presenter
44	Concepts, Communities, Practices: Rethinking the Transnational	3 Sept 2013	Department of History, Presidency University, Kolkata in collaboration with Trinity College, Dublin	International	Co-organiser and paper presenter
<b>Name of the Teacher : Dr. Prabhat Kumar</b>					
45	Concepts, Communities, Practices: Rethinking the Transnational	3 Sep 2013	Department of History, Presidency University, Kolkata in collaboration with Trinity College, Dublin	International	Co-organiser and paper presenter
<b>Name of the Teacher : Dr. Soumen Mukherjee</b>					
46	'Normative Interfaces of Globalization and High-Tech Capitalism: Legal Pluralism and the Neo-Liberal turn', International Conference of the Commission on Legal Pluralism	Dec 2015	Commission on Legal Pluralism & Indian Institute of Technology, Bombay	International	Paper presenter
47	'Archiving the Past: Rethinking the Region, Religion and Language in Modern Indian History', Colloquium in Memory of Historian Kumkum Chatterjee	July 2015	Centre for Studies in Social Sciences, Kolkata	National	Paper presenter
48	'"Sant-Mahatmachi Bhumi" - Histories of interactions, Connections and Subjectivities in Aurangabad Region'	June 2015	Chistiya College & Aurangabad History Society	International	Paper presenter
49	International Conference: 'Religion in the Age of Imperial Humanitarianism, 1850-1950'	Sep 2012	Leibniz Institut für Europäische Geschichte, Abteilung für Universalgeschichte, Mainz	International	Paper presenter
50	Workshop: 'On Reading and Writing about "Muslim Cultures" of South Asia'	July 2012	Institute of Islamic Studies, Freie Universität, Berlin	International	Panel discussant

Sl. No.	Title of the Seminar	Date	Organized by	Status (National/ International)	Role as Resource Person/Invited Speaker
51	Legal Histories of the British Empire Conference on 'Law, Spaces, Cultures and Empire: Engagements and Legacies'	July 2012	Faculty of Law, National University of Singapore	International	Paper presenter
52	“‘Liberal Islam’ and Ismaili ethics in the 20th century: “religious and social welfare” of “the Community” and “non-denominational” development’	March 2012	Etudes gujarati et sindhi: sociétés, langues et cultures, Ecole Française’ Extrême Orient (EFEO), Paris	International	Invited speaker
<b>Name of the Teacher : Professor Mridu Rai</b>					
53	‘Defending Nationalism: The Ideas of Rabindranath Tagore and Kashmiri Resistance’, International conference on ‘Tagore and Nationalism’	5-7 Nov 2015	Indian Institute of Advanced Studies, Shimla	International	Invited speaker
54	‘Can the Kashmiri Be Possessed Through Maps?’, Panel discussion on Kashmir	23 Sep 2013	Leiden University	International	Invited speaker
55	‘Mapping Practices and Kashmir, 1947 to the Present’	10 Sep 2013	Ramjas College, Delhi University	National	Invited speaker (invited lecture)
56	‘When God Chastises: The Bihar Earthquake, Nationalism, and Caste’	10 Sep 2013	Hindu College, Delhi University	National	Invited speaker (invited lecture)
57	“‘We are Shudras First, Muslims After’’: Equality and Caste Among Muslims in India’, Conference on ‘Concepts, Communities, Practices: Rethinking the Transnational’	3 Sept 2013	Department of History, Presidency University, Kolkata in collaboration with Trinity College, Dublin	International	Paper presenter
58	‘When God Chastises: The Bihar Earthquake, Nationalism, and Caste’	30 July 2013	Presidency University, Kolkata	National	Invited speaker (invited lecture)
59	‘When God Chastises: The Bihar Earthquake, Nationalism, and Caste’	30 July 2013	St. Xavier’s College, Kolkata	National	Invited speaker (invited lecture)
60	‘When God Chastises: The Bihar Earthquake of 1934 and the Remaking of a Social Order’	6 Feb 2013	Centre for Modern Indian Studies Colloquium, Georg-August Universität, Goettingen	International	Invited speaker (invited lecture)
61	Panel: ‘Contested Territories in the Interwar Period’, Conference on ‘Colonialism in Europe’	22-23 June 2012	National University of Ireland, Galway	International	Invited speaker and panel discussant

Sl. No.	Title of the Seminar	Date	Organized by	Status (National/ International)	Role as Resource Person/Invited Speaker
<b>Name of the Teacher : Dr. Mohammad Sajjad Alam Rizvi</b>					
62	Urdu: Mother Tongue as a Medium of Instruction and the Issue of Intellectual, Cultural and Educational Progress: Problems and Prospects	24 March 2015	Madrasa NasriyaAshrafiya, Panasi, Kishanganj, in collaboration with National Council for Promotion of Urdu Language, Ministry of Human Resource Development, Government of India	National	Invited speaker
63	'Sacred Sources of Islam: Prophethood and Revelation in Nursi'sRisale-iNur', in the 4th International Nursi Studies Conference in India on the 'Concept of Qur'an in the Risale-Nur'	12-13 Feb 2015	Istanabul Foundation for Science and Culture, Turkey in collaboration with the Aliah University, Kolkata	International	Invited speaker
64	'Madrasa Education, Government Schemes and the Issues of Exclusion' in the National Seminar on Minorities in North-East India: Process of Inclusion and Development of Minorities in North East India	22-23 March 2014	Sikkim University with Support of Ministry of Minority Affairs and ICSSR, New Delhi	National	Invited speaker
65	'Reconfiguring the Concepts of Caliphate and Imamate: The Tariq-I Muhammadiyya in Early Nineteenth Century-South Asia, in the workshop on The Conceptual World of Bhashas in Modern India CSDS, Delhi	Feb 2014	CSDS, Delhi	International	Invited speaker
66	'Redefining Concepts of Emotions in South Asia: Reform and Politics in the Tariqa-iMuhammadiyya', workshop on "Concepts of Emotions in South Asia from 19th to 21st Century"	6-7 Dec 2013	the Centre for the History of Emotions, Max Plank Institute for Human Development, Berlin	International	Invited speaker
67	'Music, Emotions and Reform in South Asian Islam (Late Eighteenth and Early Nineteenth Centuries)', Conference on "Concepts, Communities, Practices: Rethinking the Transnational"	3 Sep 2013	Department of History, Presidency University, Kolkata in collaboration with Trinity College, Dublin	International	Paper presenter

4. List of Publications in papers ( peer-reviewed only), Books, Monographs, Last Four Years

2012

**Chattopadhyay, R.K.**, and Sing, R., 2012, A Note on the Discovery of Prehistoric Tools from Chanderi, Madhya Pradesh, Kosala5, pp. 258-266.

**Gupta, S.**, 2012, Religious Travel, Place-Making and Social Collectivity: Connected Spaces in Bengal, India and Beyond, c. 1850-1927. Zeitschrift fur Indologie und Sudasienstudien, formerly StII: StudienzurIndologie und Iranistikv, Heidelberg, Hempen Verlag, v. 29, p. 97-135

**Gupta, S.**, Nationhood and Identity Movements in Asia: Colonial and Postcolonial Times (Introduction) in Gupta, S. (ed.) Nationhood and Identity Movements in Asia: Colonial and Postcolonial Times (New Delhi: Manohar, 2012), pp. 1-28; ISBN: 13: 9788173049606

**Gupta, S.**, (ed.), 2012, Nationhood and Identity Movements in Asia: Colonial and Postcolonial Times, New Delhi: Manohar); ISBN: 13: 9788173049606

2013

**Chattopadhyay, R.K.**, Ray, S and Majumder, S., 2013, ‘The Kingdom of the Saivacaryas’, Berliner Indologische Studien, Berlin, Volume 21, pp. 173-256.

**Chattopadhyay, R.K.**, Ray, S and Majumder, S., 2013, ‘In Search of The Jaina Identity: A Study of The Sculptural Remains of The Vishnupur Region’, Journal of Indian Society of Oriental Art, Vol. XXVIII & XXIX (New Series) 2011-12, 2012-13, Kolkata, pp.119-151.

**Chattopadhyay, R.K.**, BoSe, P., Acharya, D., Bandhyopadhyay, K., 2013 ‘Ground/Polished Stone Tool Industries of Eastern India: A Reappraisal of Sites, Contents and Contexts’, in K. N. Dikshit ed. ‘Neolithic and Chalcolithic Cultures of Eastern India’, Indian Archaeological Society, New Delhi, pp. 119-172.

**Chattopadhyay, R.K.**, 2013, ‘Palaeolithic Eastern India: An Appraisal’, in Dilip K. Chakrabarti and Makkhan Lal (eds.) History of Ancient India: Prehistoric Roots, vol. 1, pp. 205-228.

**Chattopadhyay, R.K.**, 2013, ‘Early Village Farming in Eastern India: Evidence from Bihar, Jharkhand, West Bengal, Orissa and North-eastern states’, in Dilip K. Chakrabarti and MakkhanLal (eds.) History of Ancient India: Protohistoric Foundation, vol. 2, pp. 523-556.

**Chattopadhyay, R.K.**, 2013, ‘The Satavahanas’, in Dilip K. Chakrabarti and MakkhanLal (eds.) History of Ancient India: Political History and Administration (c. 200 BC to 750 AD), vol. 4, pp. 71-95.

**Chattopadhyay, R.K.**, 2013, ‘The Western Kshatrapas’ in Dilip K. Chakrabarti and MakkhanLal (eds.) History of Ancient India: Political History and Administration (c. 200 BC to 750 AD), vol. 4, pp.96-115.

**Gupta, S.**, 2013, The Idea of Freedom in Bengali Nationalist Discourse. Studies in History, Sage Publications, v. 29: 1, p. 21-40.

**Gupta, S.**, 2013, ‘Tribeni’ and ‘Jirat’, in Ranjan Chakrabarti (ed.), Dictionary of Historic Places: Bengal, 1757-1947, New Delhi: Primus Books.

**Harijan, K.**, 2013, Information and Communication Technologies (ICT) in the Darjeeling hills- Its Role and Limitations. Salesian Journal of Humanities and Social Sciences ‘Technology and Society’, v.IV, no.1, p. 198-213.

**Harijan K.**, 2013, Sports in Darjeeling: Legacy, Problems and Prospects, Salesian Journal of Humanities and Social Sciences , ‘Sports and Games: A Holistic Approach’ , v. IV, no. 2. p. 59-71

## Presidency University

**Kumar, P.**, 2013, "From Punch to Matvala: Transcultural Lives of a Literary Format" in Hans Harder, and Barbara Mittler (eds.), *Asian Punctures: A Transcultural Affair*, Heidelberg: Springer.

**Rai, M.**, 2013, *Memorializing 13 July 1931 in Kashmir* in Fahad Shah (ed), *Of Occupation and Resistance: Writings from Kashmir*, Westland Ltd. and Tranquebar Press; ISBN-10:9383260017, ISBN-13: 978-9383260010

**Rai, M.**, 2013, *Making a Part Inalienable: Folding Kashmir Into India's Imagination*, in Sanjay Kak (ed), *Until My Freedom Has Come: The New Intifada in Kashmir*, Co-published by Haymarket Books, UK and Penguin, India, pp. 250-278; ISBN-10: 1608462528, ISBN-13: 978-1608462520 for UK edition; ISBN-10: 0143416472, ISBN-13: 978-0143416470 for Indian edition.

### 2014

**Banerjee, M.**, 2014, *Does International Criminal Justice Require a Sovereign? Historicizing Radhabinod Pal's Tokyo Judgment in Light of his 'Indian' Legal Philosophy.* in Morten Bergsmo, CheahWui Ling, and Yi Ping (eds.), *Historical Origins of International Criminal Law*, vol. 2, 67-117, Forum for International Criminal and Humanitarian Law Publication Series No. 21 (2014), Brussels: Torkel Opsahl, 2014, archived in International Criminal Court Legal Tools DataBase, <https://www.legal-tools.org/en/doc/7c217c/>

**Chattopadhyay, R.K.**, Acharya, D., Majumder, S., Sain, M.K., Biswas, P and Mondal, B., 2014, *Excavation at Dihar 2012-2013: An Interim Report*, Pragdhara, Volume 23/2013-14, pp. 95-148.

**Mukherjee, S.**, 2014, *Universalising Aspirations: Community and Social Service in the Ismaili Imagination in Twentieth-Century South Asia and East Africa.* *Journal of the Royal Asiatic Society*, Series 3, v. 24, pp. 435-453.

**Rai, M.**, 2014, *Languages of Violence: The Indian State and Insurgent Kashmir*, *Purba Darshan: A Journal of Asian Studies*, vol. 2, pp. 55-87; ISSN 2322-0813.

**Rai, M.**, 2014, *Is There a Classical Colonialism?*, in Roisin Healy and Enrico Del Gado (eds.), *The Shadow of Colonialism in Europe's Modern Past*, Palgrave MacMillan, pp. 23-35; ISBN 978-1-137-45074-6

### 2015

**Banerjee, M.**, 2015, "All This is Indeed Brahman": Rammohun Roy and a 'Global' History of the Rights-Bearing Self. *The Asian Review of World Histories*, 3, 1, p. 81-112.

**Banerjee, M.**, 2015, *Doubt, Authority and the Individual.* Rammohun Roy, Christian Missionary Discourses and Political Theology in Early Nineteenth-Century Bengal. Martin Fuchs, Antje Linkenbach-Fuchs, and Wolfgang Reinhard (eds.), *Individualisierung durch christliche Mission? [Individualization through Christian Missionary Activity?]*, Wiesbaden: Harrassowitz, 2015, p. 438-456.

**Chattopadhyay, R.K.**, 2015, Joint editor, *Sanskriti Bichitra (Dr. S. S. Biswas Felicitation Volume)*, Kaveri Book Service, New Delhi, ISBN: 987-81-7479-185-6.

**Chattopadhyay, R.K.**, Majumder, S., Ray, S., 2015, *Exploring the Jaina Sculptural Remains in Ancient Manbhum*, *Berliner Indologische Studien*, Berlin, 22, pp: 205-236.

**Chattopadhyay, R.K.**, Bandhyopadhyay, K., 2015, 'A Preliminary Study of the Worked Bone Industry in the Middle and Lower Ganga Valleys: From the Mesolithic to the Early Historic Periods', in M.H. Bhuiyan (ed.) *Studies in South Asian Heritage (Dr. Rashid Commemorative Volume)*, Jahangirnagar University, Bangladesh, pp.225-284.

**Chattopadhyay, R.K.**, 2015, 'The Caste System of Ancient India: A Study of Literary And Epigraphic Sources' published in Dilip K. Chakrabarti and Makkhan Lal (eds.) *History of Ancient India*, Volume: VI, pp. 43-134.



**Gupta, S.**, forthcoming, *Ethnicity, Otherness and Cultural Constellations in Eastern India: Forging an Interregional Arena, c. 1850-1927* (contracted, 2015)

**Mukherjee, S.** forthcoming, *Lineages of Postnational Identity: Ismailism and Islam in Modern South Asia* (contract signed in 2015)

**Rai, M.**, forthcoming, *A History of Kashmir: the Eighth Century to the Present*, (contract signed 2015)

**Rai, M.**, 2015, *The Black Hole That (N)Ever Was*, *History Workshop Journal*, Vol. 79, pp. 266-274; *Journal Impact Factor: 0.659; Five Year Impact Factor: 0491; Online ISSN 1477-4569 - Print ISSN 1363-3554*

**Rizvi, M.S.A.**, 2015, *Hazrat Aasi: Sufism and Anti-Sufism Movement: An Analytical Study (Hazrat Aasi, Tasawwufaur Tasawwuf Mujhalif Tahrik: Aik Tajziyati Muta'alah)* in Abrar Raza Misbahi (ed), *Bustan-iAasi*, vol. 1, Shah Abd al-Alim Aasi Foundation, Dehli.

## 5. List of Conference Publications Last Four Years

**Gupta, S.**, 2015, *The Multidimensional Concept of Freedom in Bengali Nationalist Discourse*, forthcoming, proceedings of a National Conference on 'The Indian National Congress and the Struggle for Independence', held at Loreto College, Calcutta, in collaboration with Victoria Memorial Hall, Calcutta

**Mukherjee, S.** 2015 (manuscript submitted in 2015; forthcoming), 'Die internationalen Netzwerke des Aga Khan Development Network: Möglichkeiten und Grenzeneinesmuslimischen Kosmopolitismus' Bernhard Gißibl & Isabella Löhr (Hg./ eds), *Kosmopolitismus: Zumheuristischen Mehrwerteineswissenschaftlichen Modekonzepts* (Frankfurt/ M: Campus Verlag, forthcoming). [trans. into German].

**Rai, M.** 2015-16, *Defending Nationalism: The Ideas of Rabindranath Tagore and Kashmiri Resistance*, Paper presented at the Indian Institute of Advanced Study, Shimla. International Conference on "Tagore and Nationalism", 5-7 November 2015, Proceedings to be published in a forthcoming Commemorative Volume, Indian Institute of Advanced Study, Shimla. International Conference; Invited Speaker

## 6. Synopsis of Publications

Publications		2012	2013	2014	2015	Total
Paper (peer-reviewed)	national	2	12	2	3	19
	International	1	4	2	5	13
Books & Monographs	national	1				1
	International					
Articles in magazine/ Newspaper		1	1	1	2	5

## A brief history of the Department

The History Department of Presidency University (with its lineages in history teaching in the Hindoo College and in Presidency College) offers one of the most Globally renowned academic environments for South Asian historical studies and research. Following the recognition of Presidency as a university, new members of the faculty have recently been recruited, and new pedagogic objectives are also currently being fashioned. Keeping in line with its genealogies, the Department focuses on teaching Indian history from prehistoric times till the early postcolonial period, European history from ancient Greece and Rome till the twentieth century, and world history for the twentieth century.

In concordance with these traditional teaching areas, the members of faculty of the History Department mainly research and specialize in the interfaces between South Asian history and Global history, from the early modern

## Presidency University

to the colonial and postcolonial periods, focussing especially on India's interactions with the Islamic world and with Europe and North America. Reception of antiquity in early modern and modern times is also a significant area of expertise for the Department. Intensive scholarship on South Asian communities is combined with transnationally-oriented studies of entangled intellectual and social-political networks that span the extra-Indian world. Faculty members typically combine empirically-dense scholarship with theoretically-grounded interrogation of the social issues that historical scholarship raises. Political theory perspectives are foregrounded. Within this frame, the department's core areas of expertise lie in intellectual history and cultural studies, art history, social history, and economic history. Examples of research areas of the faculty include: conversations and contestations between early modern Indian, Indo-Islamic and European intellectual traditions; ideas of kingship, theology, political legitimation and governance in South Asia and the British Empire; socially-grounded religious studies of Indic, Islamic and Christian traditions; Dalit and Adivasi studies, and scholarship on marginalized communities; notions of nationhood in India, and their colonial and precolonial roots; artisanal technologies and modes of production in the late precolonial and early colonial periods in South Asia; public spheres and the social production of satire in colonial India; reception of precolonial art, architecture and archaeological traces in modern India; investigation of scientific-technological discourses as they developed through interactions between South Asian societies and European institutions and discourses; postcolonial studies-oriented interrogations into the making of international law; and notions of development, political economy, statehood and progress in late colonial and postcolonial India, and their entanglement with Global movements and discourses.

## Evaluative Report of the Department: Philosophy

1. **Name of the Department** : Philosophy
2. **Year of establishment** : 1868
3. **Is the Department part of a School/Faculty of the university?** : Yes.
  - Under the faculty of Humanities and Social Sciences.
4. **Names of programmes offered (UG, PG, MPhil, PhD, Integrated Masters; Integrated PhD, DSc, DLitt, etc.)** :
  - BA (Hons) in Philosophy
  - Four semesters for GenEd courses for other departments
  - MA in Philosophy
  - PhD (Humanities)
5. **Interdisciplinary programmes and departments involved** :
  - The department offers interdisciplinary GenEd programmes for other departments. The GenEd syllabus includes Philosophical Psychology, Ethics and our Environment, Philosophy of Language and Epistemology (Western) and Indian Epistemology and Metaphysics. In this current age an overall understanding of personal and social psychology is necessary. Philosophy GenEd course offers a guideline for the same from a philosophical perspective. The course includes glimpses of philosophical arguments for and against particular ethical stands, resorting to living environmental issues. In order to make general students aware of the philosophical perspectives regarding mechanism and validity of our cognition and language, the courses offer western epistemology and analytical tradition. Indian philosophical tradition is overwhelmingly rich in philosophical insight, and speculation regarding metaphysics is introduced to the general students for a better understanding of the world around.
6. **Courses in collaboration with other universities, industries, foreign institutions, etc.** :
  - Plans to collaborate with the foreign institutions for conducting research in the fields like Cognitive Science and Moral Philosophy.
7. **Details of programmes discontinued, if any, with reasons** : None
8. **Examination System: Annual/Semester/Trimester/Choice Based Credit System:**  
 Semester system with:
  - Choice Based Credit System for GenED
  - Options from a Basket of special papers/sessional in UG Semester and PG semesters for dissertation
9. **Participation of the department in the courses offered by other departments** : Nil

**10. Number of teaching posts sanctioned, filled and actual (Professors/Associate Professors/Asst. Professors/others**

	Sanctioned	Filled	Actual (including CAS & MPS)
Professor	1	0	0
Associate Professors			0
Asst. Professors	12	7	7

**11. Faculty profile with name, qualification, designation, area of specialization, experience and research under guidance**

Name	Qualification	Designation	Specialization	No. of Years of Experience	No. of PhD/M. Phil students guided for the last 4 years
Arnab Kumar Mukhopadhyay	MPhil	Assistant Professor	Mathematical Logic, Logic of Bertrand Russell	7	
Dr. BArada Laxmi Panda	PhD	Assistant Professor	Ethics, Analytic Philosophy, Philosophy of Action	2	
Mainak Pal	MPhil in Philosophy	Assistant Professor	Cognitive Science and Nyaya	7	
Dr. Manoj Kumar Panda	PhD	Assistant Professor	Philosophy of Mind, Epistemology, Philosophy of perception and Consciousness	6 months	
Dr. Ngaineilam Haokip	PhD	Assistant Professor	Philosophy of Mind, Ethics, Moral Philosophy	1 year 3 months	
Dr. Nusrat Jahan	PhD	Assistant Professor	Logic, Practical Ethics, Philosophical Logic	10	1
Priyanka De	MPhil	Assistant Professor	Philosophy of Mind	2	

**12. List of senior Visiting Fellows, adjunct faculty, emeritus professors:**

- Prof. Swapan Kumar Chakraborty: Kabiguru Rabindranath Tagore Distinguished Chair Professor

**13. Percentage of classes taken by temporary faculty – programme-wise information:**

- UG- 11%
- PG- 25%

**14. Programme-wise Student Teacher Ratio:**

- For the year 2015-16:
- Total UG students - 77
- Total PG students - 45
- No. of teachers - 7

**15. Number of academic support staff (technical) and administrative staff: sanctioned, filled and actual :**

Sanctioned	Filled
1	1

**16. Research thrust areas as recognized by major funding agencies**

At present the faculty of the department are not supported from any funding agency, however we are involved in research work in the following fields:

- Logic, Philosophical Logic, Applied Ethics (Dr. Nusrat Jahan)
- Theoretical Ethics, Applied Ethics, Philosophy of Action, Analytic Philosophy (Dr. Barada Laxmi Panda)
- Philosophy of Mathematics, Philosophy of Language, Logic and Bertrand Russell (Arnab Kumar Mukhopadhyaya)
- Philosophy of Mind (Priyanka De)
- Philosophy of Mind, Moral Philosophy, Applied Ethics, Philosophy of Language (Dr. Ngaineilam Haokip)
- Philosophy of Mind, Epistemology, Philosophy of Perception and consciousness (Dr. Manoj Kumar Panda)
- Nyaya and Cognitive Science (Mainak Pal)

**17. Number of faculty with ongoing projects from a) national b) international funding agencies and c) Total grants received. Give the names of the funding agencies, project title and grants received project-wise. :**  
Nil

**18. Inter-institutional collaborative projects and associated grants received :** The faculties are publishing papers in collaboration with the faculties of other Universities

- a) National collaboration    b) International collaboration

**19. Departmental projects funded by DST-FIST; UGC-SAP/CAS, DPE; DBT, ICSSR, AICTE, etc.; total grants received.** None

**20. Research facility / centre with:** Nil

- state recognition
- national recognition
- international recognition

**21. Special research laboratories sponsored by / created by industry or corporate bodies :** Nil

**22. Publications: (provide List in annexure))**

- Number of papers published in peer reviewed journals (national / international)  
National : 10      International : 0
- Monographs
- Chapters in Books
- Edited Books
- Books with ISBN with details of publishers

## Presidency University

- Number listed in International Database (For e.g. Web of Science, Scopus, Humanities International Complete, Dare Database - International Social Sciences Directory, EBSCO host, etc.)
- Citation Index – range / average
- SNIP
- SJR
- Impact Factor – range / average
- h-index

23. **Details of patents and income generated:** Nil

24. **Areas of consultancy and income generated:** Cognitive science is a possible field in this regard

25. **Faculty selected nationally / internationally to visit other laboratories / institutions/ industries in India and abroad :** none

26. **Faculty serving in**

- a) National committees b) International committees c) Editorial Boards d) any other (please specify):

Mr. Arnab Kumar Mukhopadhyay: Member of Syllabus committee, Midnapur College (Autonomous); member editorial board, Knowledge Bank publishers and distributors.

27. **Faculty recharging strategies** (UGC, ASC, Refresher / orientation programmes, workshops, training programmes and similar programmes).

	<b>Particulars of the programme Participated</b>	<b>Organiser</b>	<b>Year</b>	<b>Place/Venue of The programme</b>
DR. NUSRAT JAHAN	UGC Sponsored Refresher Course (17th Nov. – 6th Dec. 2008)	UGC – Academic Staff College, Calcutta University	2008	University of Calcutta
	UGC Sponsored Orientation programme (16th Nov. – 14th Dec. 2009)	UGC – Academic Staff College, Calcutta University	2009	University of Calcutta
MAINAK PAL	UGC Sponsored Orientation programme (11th February – 11th March, 2013)	UGC – Academic Staff College, Jadavpur University	2013	Jadavpur University
	UGC Sponsored Refresher Course (21st November – 11th December, 2013)	UGC – Academic Staff College, Jadavpur University	2013	Jadavpur University
	Training & Orientation Course Sponsored by Department of Youth Affairs and Sports, Government of India (8th – 13th August, 2011)	Ramakrishna Mission Lokasiksha Parishad	2011	Ramakrishna Mission Lokasiksha Parishad, Narendrapur, Kolkata – 103

28. **Student projects**

- o percentage of students who have done in-house projects including inter-departmental projects
- o percentage of students doing projects in collaboration with other universities / industry / institute: Through dissertation and sessional papers all students carry out project work

**29. Awards / recognitions received at the national and international level by**

- o Faculty : Nil
- o Doctoral / post doctoral fellows : Nil
- o Students :

**student Rabiul Islam:**

- Presented paper in Indian Philosophical Congress on ‘Religion’.
- Selected as a participant and paper-presenter in the conference organized by International Journal of Arts and Science, Cumberland, Rhode Island, USA on ‘Gender is under Reconstruction’.
- Abstract has been accepted for paper-presentation in International Conference on Social Sciences, Sri Lanka.
- Invited for paper-presentation in International Conference on Humanities, Languages and Social Sciences (ICHLSS), Singapore on ‘Terrorism’.
- Presented full Paper in SELSA, Japan on ‘Rethinking Language Rights’.

**30. Seminars/ Conferences/Workshops organized and the source of funding (national /international) with details of outstanding participants, if any.**

**31. Code of ethics for research followed by the departments :**

- o Departmental faculty are engaged in research work in different fields. They practice and promote research work which has originality and is free from plagiarism.

**32. Student profile programme-wise:**

Name of the programme	Applications received	Selected		Pass percentage	
		Male	Female	Male	Female
(refer to question no. 4)					
UG (2015-16)	156	5	17	3.2%	10.8%
PG (2015-16)	197	8	15	4.06%	7.61%

**33. Diversity of students**

Name of the programme (refer to question no. 4)	% of students from the same university	% of students from other universities within the State	% of students from universities outside the State	% of students from other countries
PG	55	45		

**34. How many students have cleared Civil Services and Defense Services examinations, NET, SET, GATE and other competitive examinations? Give details category-wise. :**

**35. Student progression**

Student progression	Percentage against enrolled
UG to PG	90%
PG to MPhil	2%
PG to PhD	2%

## Presidency University

Student progression	Percentage against enrolled
PhD to Post-Doctoral	–
Employed	Employed in school, Colleges and administrative services
• Campus selection	
• Other than campus recruitment	
Entrepreneurs	

### 36. Diversity of staff

Percentage of faculty who are graduates	
of the same university	30%
from other universities within the State	30%
from universities from other States from	40%
universities outside the country	

37. Number of faculty who were awarded MPhil, PhD, D.Sc. and D.Litt. during the assessment period: 06

38. Present details of departmental infrastructural facilities with regard to

- a) Library: Seminar Library
- b) Internet facilities for staff and students: WiFi and LAN
- c) Total number of classrooms : 06
- d) Class rooms with ICT facility : wifi, and lan, facility are available for every faculty. Projector available in classroom. Wireless facility for every student.
- e) Students' laboratories :Nil
- f) Research laboratories :Nil

39. List of doctoral, post-doctoral students and Research Associates

- a) from the host institution/university
- b) from other institutions/universities : Shantanu Bhatt, doctoral student.

40. Number of postgraduate students getting financial assistance from the university.

41. Was any need assessment exercise undertaken before the development of new programme(s)? If so, highlight the methodology.

- o We have revised our present syllabus according to the advice of the experts of the BoS.

42. Does the department obtain feedback from

- a. faculty on curriculum as well as teaching-learning-evaluation? If yes, how does the department utilize the feedback?
- b. students on staff, curriculum and teaching-learning-evaluation and how does the department utilize the feedback:



- o There is a student-teacher committee, regular meetings are held and feedback taken and they are applied accordingly.

c. alumni and employers on the programmes offered and how does the department utilize the feedback?

**43. List the distinguished alumni of the department (maximum 10):**

- o Prof. Krishna Chandra Bhattacharya, Prof. Gopinath Bhattacharya, Prof. Surendra Nath Dasgupta, Prof. Mahendra Lal Sirkar, Prof. Probhas Jivan Chaudhuri, Prof. Nalinikanta Brahma, Prof. Prabhu Dutta Sastri, Prof. Amiya Majumdar among others.
- o The department is extremely proud of its alumni: Netaji Subhash Chandra BoSe, Swami Vivekananda, Prof. Shibjiban Bhattacharya, Prof. J. N. Mohanty, Prof. Ashoke Kumar Ganguly, Prof. J.L.Shaw, Prof. Arindam Chakraborty among others.

**44. Give details of student enrichment programmes (special lectures / workshops / seminar) involving external experts. (provide List in annexure)**

Several state-level seminars were organized by the department from 2011-2015. (Details provided in the annexure)

Sl No.	Date/Month	Topic	Source of Funding	Status (Local/State/ National level) (Student Enrichment programme)
1	2013	Vedanta Philosophy	Presidency University	Local
2	2013	Ethics of Ayurveda	Presidency University	Local
3	4th September, 2013	Epistemology: Traditional, Naturalized and Feminist	Presidency University	State Level
4	20th November, 2015	Epistemology: Kantian and Nyaya Perspective	Presidency University	State Level

**45. List the teaching methods adopted by the faculty for different programmes.**

Philosophy is mainly a theoretical subject, accordingly faculty members adopted different methods to make the subject interesting.

- 1) PPT in classroom to make important points clearer.
- 2) Tutorials for students to clarify doubts.
- 3) Discussion on important topics.
- 4) Classroom presentation by the students.

**46. How does the department ensure that programme objectives are constantly met and learning outcomes are monitored?**

- o In order to ensure that programme objectives are constantly met, the department holds student-faculty meetings at regular intervals. Learning outcomes are monitored by the Board of Studies (BoS) constituted by the faculty of the department along with experts from outside Presidency University.

**47. Highlight the participation of students and faculty in extension activities.**

- o Faculty members and Students are encouraged to participate in seminars and conference in Department as well as in other institutions.
- o The department promotes healthy debate/discussion in the classroom so that students are trained to channelise their thoughts in a healthy way.

**48. Give details of “beyond syllabus scholarly activities” of the department.**

- o Faculty members arrange for special classes to groom students for particular needs (how to write term-paper/ dissertation/presentation, how to present a paper effectively in limited time, how to handle questions and discussions, etc.)

**49. State whether the programme/ department is accredited/ graded by other agencies? If yes, give details.**  
Not yet

**50. Briefly highlight the contributions of the department in generating new knowledge, Basic or applied.**

- o The department has introduced different optional papers from 2011 to 2015: Logic, Applied Ethics, Indian Philosophy of Language, Feminist Philosophy etc.

**51. Detail five major Strengths, Weaknesses, Opportunities and Challenges (SWOC) of the department.**

**Strength –**

- 1) Less number of dropout students
- 2) Good attendance of students in class
- 3) Unity among Faculty.
- 4) Good student-faculty relation.
- 5) Frequent departmental meetings

**Weakness**

- 1) Grossly under-staffed.
- 2) No departmental journals.
- 3) Need more departmental secretaries.

**Opportunities**

- 1) FRPDF (Faculty Research programme and Development Fund) to promote growth of faculties.
- 2) Faculty members are allowed to attend seminars/workshops of state/national/international level
- 3) Faculty members are allowed to take sabbatical leave so that academic growth is promoted
- 4) Acknowledge or award any faculty or students who achieved success in any field.
- 5) Encourage excellence in the department by constituting fellowships/awards.

### **Challenges**

- 1) To overcome the above mentioned weaknesses
- 2) To create good environment for research
- 3) To facilitate an enquiring mind in developing further understanding about great thinkers.
- 4) To Balance research and teaching.
- 5) To convince more students to go for research after Post-graduation.

### **52. Future plans of the department.**

- 1) To have more faculty, especially full-time Associate Professors and Professors.
- 2) To organize more state-level and national-level seminars per year.
- 3) To organize more international seminars.
- 4) To have more workshops/invited-talks and discussions yearly.
- 5) To organize interdisciplinary workshop/seminar with other departments from Presidency University or any other reputed Universities.
- 6) To appoint one faculty as a liaison officer so that interaction with other departments can be more effective and streamlined.
- 7) To publish one departmental journal, so that students are encouraged to do research.
- 8) To encourage students to come forward with suggestions on how to improve classroom teaching experience.

ANNEXURES

1. Seminar workshops attended by teachers of the Department in last three years (chronologically)

Title of Seminar	Date	Organized by	Status (National/ International)	Role as Resource person /Invited Speaker
<b>2011 : Name of the Teacher : Dr. Nusrat Jahan</b>				
Development of Logic: Indian and Western	2nd February 2011	Ramakrishna Mission Vidyamandir	National	Participated
Human Rights: Ethics and Values in Education	25th-26th February 2011	Hooghly Mohsin College	UGC Sponsored State Level Seminar	Participated
Utilitarianism and Beyond	15th - 16th March, 2011	University of Calcutta	UGC SAP-DRS (Phase-I)	Participated
Science Awareness Activities	28th March 2011	Hooghly Mohsin College	DC-SAPI, Govt. of West Bengal	Participated
The Philosophical Contributions of Prof. Shibajiban Bhattacharya	12th-13th December 2011	University of Calcutta	National Seminar, University of Calcutta in Collaboration with ICPR	Participated
<b>2012 : Name of the Teacher : Dr. Nusrat Jahan</b>				
Reading Russell On The Centenary Of Principia Mathematica	25th January 2012	Rabindra Bharati University	National Seminar, Rabindra Bharati University in Collaboration with ICPR	Attended
Euthanasia - Mercy or Killing	2012	Hooghly Mohsin College		Presented a paper and Attended
রবীন্দ্রনাথ ও সমকালীন প্রসঙ্গ	9th-10th February 2012	Bidhannagar College	State Level	Attended
<b>2012 : Name of the Teacher : Mainak Pal</b>				
Society, Culture and Value	20th and 21st December, 2012	Jadavpur University	National	Attended the Seminar
<b>2013 : Name of the Teacher : Dr. Nusrat Jahan</b>				
Epistemology: Traditional, Naturalized and Feminist	4th September, 2013	Presidency University	State Level	Participated and coordinated and Organized the seminar
The German Intellectual Tradition & The Social Sciences: From Kant To Habermas; The German Intellectual Tradition & The Social Sciences: From Kant To Habermas	14th September, 2013	Max Mueller Bhavan Library, Kolkata		Participated

Title of Seminar	Date	Organized by	Status (National/ International)	Role as Resource person /Invited Speaker
<b>2013 : Name of the Teacher : Dr. Manoj Kumar Panda</b>				
Problems of the Self: Debates in Consciousness, Subjectivity and Otherness	23rd- 25th January, 2013	Jawaharlal Nehru University, Centre for Philosophy	International seminar	Attended
Perceptual Experience, Phenomenal Consciousness and Intentionality	21- 24th November, 2013	Assam University, Silchar	International Conference	Presented Paper
Conceptualism & Phenomenology of Action	6th-8th December, 2013	IIT, Gandhinagar	International Conference	Presented Poster
‘Are Emotions Social or Psychological’ (with Pragyan Paramita Mohapatra)	6th -8th December, 2013	IIT, Gandhinagar	International Conference	Presented poster
<b>2014 : Name of the Teacher : Dr. Barada Laxmi Panda</b>				
Ethics and Globalization	20th November, 2014	Philosophy Department, North Bengal University on the Occasion of Celebrating World Philosophy Day	National	Invited Speaker.
<b>2014 : Name of the Teacher : Mainak Pal</b>				
Language and Mind: 20th Century Perspectives	30th and 31st January, 2014	Jadavpur University	National	Attended the Seminar
Special lecture on ‘Reductionism and Eliminative Materialism’ 2014	9th December, 2014	West Bengal State University	Departmental	Delivered the Lecture
<b>2014 : Name of the Teacher : Dr. Manoj Kumar Panda</b>				
National workshop on Russell’s Problems of Philosophy	20th to 29th August, 2014	Indian Council of philosophical Research	National	Attended and presented a paper
National Workshop on Philosophy of Mind	1st to 10th September, 2014	Indian Council of Philosophical Research	National	Attended and presented a paper
The Attentive Listener in the Visual World	3rd to 5th November, 2014	CNCS at University of Hyderabad in Collaboration with Max Planck Institute for psycholinguistic, Georg-August-Universitat Gottingen and German House for Research and Learning	International	Attended

Title of Seminar	Date	Organized by	Status (National/ International)	Role as Resource person /Invited Speaker
<b>2014 : Name of the Teacher : Priyanka De</b>				
How far can we believe in our everyday world	18th February, 2014	Presidency University	State Level	Attended the Seminar and took part in Organizing the seminar
<b>2015 : Name of the Teacher : Dr. Nusrat Jahan</b>				
Epistemology: Kantian and Nyaya Perspective	20th November, 2015	Presidency University	State Level	Organized and Attended the Seminar
<b>2015 : Name of the Teacher : Dr. Barada Laxmi Panda</b>				
Self Knowledge and Moral Identity	16-20 January 2015	Department of Humanities and Social Sciences, IIT Bombay	International	Speaker
Epistemology: Kantian and Nyaya Perspective	20th November, 2015	Presidency University	State Level	Attended
<b>2015 : Name of the Teacher : Arnab Kumar Mukhopadhyay</b>				
Epistemology: Kantian and Nyaya Perspective	20th November, 2015	Presidency University	State Level	Attended and took part in organizing the Seminar
<b>2015 : Name of the Teacher : Priyanka De</b>				
Epistemology: Kantian and Nyaya Perspective	20th November, 2015	Presidency University	State Level	Attended
<b>2015 : Name of the Teacher : Mainak Pal</b>				
Epistemology: Kantian and Nyaya Perspective	20th November, 2015	Presidency University	State Level	Attended and took part in organizing the Seminar
Theories of Truth and Knowledge	21st November, 2015	Jadavpur University (ICPR sponsored)	State Level	Attended the Seminar
<b>2015 : Name of the Teacher : Dr. Manoj Kumar Panda</b>				
Epistemology: Kantian and Nyaya Perspective	20th November, 2015	Presidency University	State Level	Attended and took part in organizing the Seminar
<b>2015 : Name of the Teacher : Dr. Ngaineilam Haokip</b>				
Epistemology: Kantian and Nyaya Perspective	20th November, 2015	Presidency University	State Level	Attended and took part in organizing the Seminar

2. List of Publications in papers ( peer-reviewed only), Books, Monographs, Last Four Years

2012

**Jahan, N.**, August 2012, Environmental Ethics – Some issues and Solutions, in AJHMC, v. 7, No. 1, p. 96-107. (ISSN No. 0973-6212)

**Jahan, N.**, 2012, Euthanasia - Mercy or Killing, Prasanga Manuser Adhikar, Hooghly Mohsin College, p. 153-159. (ISBN No. 978-81-908801-3-8)

**Jahan, N.**, et al, ed. 2012, Hooghly Mohsin College 175th Anniversary Commemorative Volume. ISBN: 978-81-908801-4-5

**Pal, M.**, 2012, Bhāsāpariccheda, Siddhāntamuktāvalī o Dinakarī abalambane Akhyātivāda O Anyathākhyātivāda ālocanā (in Bengali). Jadavpur Journal of Philosophy (Darśana Vīksā), v.22, No.2, p. 23-30. (ISSN No. 0975-6833)

**Panda, M.K.**, 2012, Mind, Meaning and External World: A critical Study of the Debate between Narrow and Broad Content, In International Journal of Multidisciplinary Educational Research, Editor in chief. Dr. Victor Babu Koppula. p. 468-483. (ISSN: 2277-7881)

**Bhattacharya, S.**, Why do we practice Vrata?, In Essays in honour of Amita Chatterjee edited by Smita Sarkar, Kuntala Bhattacharya and Madhucchanda Sen. D.K. Print World, New Delhi (In Press).

2013

**Jahan, N.**, June 2013, Haji Mohammad Mohsin—The Great Philanthropist:1730-1812, in AJHMC, v.8, No.1, p. 19-25. (ISSN No. 0973-6212)

**Panda, M.K.**, 2013, Nonconceptual Content of Perceptual Experience and the Possibility of Empirical Thought, in The Limits of Thought and Beyond, Edited by Adarasupally Nataraju, Bloomsbury Publishing India Pvt. Ltd., p. 148-164. (ISBN No. 978-93-82951-29-2)

2014

**Panda, M.K.**, 2014, Philosophy of Mind, in Emerging Trends in Philosophy, Edited by Victor Babu Koppula. Sucharitha Publications. p. 65-74. (ISBN No. 978-93-83729-23-4)

2015

**Jahan, N.**, commissioned for writing module no. 19: Philosophical Issues Centering Round Sentential Logic (V) for Logic Paper 1 of Philosophy of UGC E-Pathshala.

**Jahan, N.**, commissioned for writing module no. 20: Philosophical Issues Centering Round Sentential Logic (V) for Logic Paper 1 of Philosophy of UGC E-Pathshala.

**Pal, M.**, Sugu, D., and Chatterjee, A., 2015, A model of ‘creative’ perceptual experience. Cognition, Experience and Creativity. Edited by J.A. Manjaly and B. Indurkhya, Orient Blackswan Private Limited, New Delhi, p.35-62. (ISBN No. 978 81 250 5731 4)

## Presidency University

### A brief history of the Department

The history of the department of Philosophy can be traced back to the year 1868 when Professor Prasanna Kumar Ray (better known as Dr. P. K. Ray) joined as Professor of Philosophy in Presidency College. He was the first Indian Principal of Presidency College during 1902-03. Dr. P. K. Ray took the initiative to start the first Students' Society under the name of 'Philosophy Seminar' in 1896. The unique feature of the Philosophy Seminar was the maintenance of the proceedings book from 1914 (with some gaps). The Seminar also possessed an 'Attendance Book and Record of Work' from 1909 to 1927, with occasional entries thereafter. In this register successive batches of students recorded the books they studied and the work they put in the Seminar, date by date. Thus, we find Subhas Chandra Bose (known later as Netaji) recording his study of 'Martineau' in September, 1915, of Caird's 'Philosophy of Religion' in 25th November, 1915.

The foundation of the Department laid by Dr. P. K. Ray was in the next decades made more solid and fortified by a trail of other intellectual giants like Dr. Surendranath Dasgupta, Dr. Mahendra Lal Sircar, Dr. Nalinikanta Brahma, Dr. Prabhu Datta Shastri, Professor Gopinath Bhattacharya, and Dr. Prabhas Jivan Choudhury. The history of the Department of Philosophy would remain incomplete if mention is not made of those students who by their brilliance established themselves as eminent scholars and teachers of Philosophy. First comes Professor Krishna Chandra Bhattacharya, the most original modern Indian thinker, who became George V Professor of Mental and Moral Philosophy in Calcutta University. His 'Studies in Philosophy' (2 Vols) is widely known among the students of Philosophy. This work contains some of his basic thoughts on the different aspects of Philosophy.

Dr. Saroj Kumar Das, also a noted scholar, became later a Professor of Calcutta University. Professor Gopinath Bhattacharya, worthy son of Professor Krishna Chandra Bhattacharya, served Presidency College for many years and also became Professor and Head of the Department at both Calcutta and Jadavpur Universities. Professor Shibajiban Bhattacharya and Dr. Jitendranath Mohanty are scholars of high repute, and both of them served Burdwan University and Calcutta University as Professors and Heads of the Department of Philosophy. Though the stalwarts are now gone, their spirit and influence survive and are still working. It is our hope that our young scholars studying in the university shall keep the torch of learning burning bright and carry forward the tradition of the department worthily, mindful of its glorious past and aware of its potential. Teachers of the Department too are engaged in writing research papers on different topics and delivering lectures in different cultural institutions.

The Department of Philosophy offers courses of both undergraduate and postgraduate levels, and offers research programme leading to the PhD degree. It includes courses from different branches of Philosophy such as Indian Philosophy, History of Western Philosophy, Analytic Philosophy, Logic, Ethics, Applied Ethics, Contemporary Indian Thoughts, and recent trends in Western Epistemology and Metaphysics. The department is associated with excellent students and faculty members. Presently the department is served by seven full-time faculties. The faculty is well-versed in Indian Philosophy, Logic, Ethics, Applied Ethics, Analytic Philosophy, Philosophy of Mind, Moral Philosophy and the like, which are well integrated in faculty teaching, learning and research. The department encourages the students in their learning process and helps them to build brilliant academic careers.



## Evaluative Report of the Department: Political Science

1. **Name of the Department:** Department of Political Science
2. **Year of establishment:** 1960.
3. **Is the Department part of a School/Faculty of the university?:** Faculty of Humanities and Social Sciences
4. **Names of programmes offered (UG, PG, MPhil, PhD, Integrated Masters; Integrated PhD, DSc, DLitt etc.):**
  - Bachelor of Arts in Political Science
  - Master of Arts in Political Science
  - GenEd programme in Political Science (undergraduate)
  - Ph. D. in Political Science
5. **Interdisciplinary programmes and departments involved**
  - In pursuance of the overall academic policy of the university, the department also offers GenEd programmes. In the spirit of interdisciplinary studies students of any major programme are free to take courses from other departments. To cater to diverse constituency of student the department offers courses on Indian Constitution, Political Sociology, India and the World, Select Western Thinkers and Select Indian thinkers. The contents of the courses are structured to provide a Basic understanding and key information about the themes.
  - Faculties of the Department are involved in teaching process in other departments according to their area of specialisation.
6. **Courses in collaboration with other universities, industries, foreign institutions, etc.**
  - The department has memorandum of understanding with Science- Po, Paris and Georgia State University for Student exchange. This is in addition to the university level collaborations with various institutions of higher education such as SOAS, University of London, Trinity College, Dublin.
  - Three students of the U.G III Batch Adrija Maitra, Arghya BoSe, and Mehk Chakraborty are presently in Paris undertaking courses in Sciences Po, Paris.
  - One student from the Sciences Po, Marshal Fournier de Saint Jean is presently taking courses in the Department of Political Science, Presidency University.
  - In 2014 student delegation from Georgia State University came to the Department of Political Science as part of exchange programme. The department conducted a series of lectures to introduce the students to Indian politics.
  - A series of lectures was organized by the department during this visit:

Date	Time	Speaker(s)	Topic
12th Nov. '14	3.30-4.30 pm 4.30-5.30 pm	Abdus Samad Gayen, Madhura Damle, Y. Suresh	Reflections on Modern Indian Political Thought Caste and Politics in India
13th Nov. '14	3.30-4.30 pm 4.30-5.30 pm	Thongkholal Haokip, Anik Chatterjee	India's North-East, Indo-U.S. Relations

Date	Time	Speaker(s)	Topic
14th Nov. '14	3.30-4.30 pm 4.30-5.30 pm	Pradip Basu, Maidul Islam	Postcolonial Theory: Indian Perspective, Bollywood and Indian Politics
18th Nov. '14	3.30-4.30 pm 4.30-5.30 pm	Zaad Mahmood, Nandalal Chakraborty	Economic Reforms in India, India's Experiments with Federalism
19th Nov. '14	3.30-5.30 pm	Rashid Naim (GSU)	Palestine – Israel Conflict

7. **Details of programmes discontinued, if any, with reasons :** None

8. **Examination System: Annual/Semester/Trimester/Choice Based Credit System**

- The department follows the norms established by the university of a semester with choice-based credit system.

9. **Participation of the department in the courses offered by other departments**

- Some faculties of the department regularly teach courses offered in other departments according to their areas of specialisation.

10. **Number of teaching posts sanctioned, filled and actual (Professors/Associate Professors/Asst. Professors/others)**

	Sanctioned	Filled	Actual (including CAS & MPS)
Professor	3	1	1
Associate Professors	0	0	1
Asst. Professors	12	10	7
Others			

11. **Faculty profile with name, qualification, designation, area of specialization, experience and research under guidance**

Name	Qualification	Designation	Specialisation	Years of Experience	No. of Candidates Supervised
Pradip BASu	Ph.D	Professor	Naxalite politics , Post modernism, Post Structuralism, Post colonialism, Feminism, Subaltern Studies	30	3
Abdus Samad Gayen	M.Phil	Associate Professor	Modern Indian Political Thought, Gandhi and Tagore, and Religion and Politics in contemporary India	25	0
Madhu Chanda Ghosh	Ph.D	Assistant Professor	security studies, area studies including East Asia, South East Asia and South Asian	7	2
Zaad Mahmood	Ph.D	Assistant Professor	Indian Politics, public policy, labour transitional economy and reforms, interest group politics, party and party system in India	9	1
Satyabrat Sinha	Ph.D	Assistant Professor	strategic concerns of the South Asian region, China and Peace and Conflict in South Asia	7	2

Name	Qualification	Designation	Specialisation	Years of Experience	No. of Candidates Supervised
Maidul Islam	Ph.D	Assistant Professor	Political Philosophy, Political Ideologies, Identity Politics, Cinema and Contemporary South Asian Politics	4	2
Madhura Damle	M.Phil	Assistant Professor	Politics of culture and identity. modern Indian political thought	2	
Yerraguntala Suresh Babu	M.Phil	Assistant Professor	Political thought, both of India and the West; Nationalism; Religion; Caste and gender	2	
Thongkholal Haokip	Ph.D	Assistant Professor (on lien)	India's foreign policy, regional economic cooperation, Northeast India and its transnational neighbourhood, ethnicity, ethnic conflicts and identity politics	3	

## 12. List of senior Visiting Fellows, adjunct faculty, visiting professors, emeritus professors

Senior and Eminent Professors take classes in the department

- Prof. Horimoto Takenori, Kyoto University, under the Japan Foundation Visiting Professor Project, 2015
- Prof. Sobhanlal Dutta Gupta, Surendranath Banerjee Chair Professor in Calcutta University (retired) [2012-2015]
- Prof. Gautam Kumar Basu, Faculty in Jadavpur University [2012-2015]
- Nandalal Chakraborty, Associate Professor, West Bengal Education Service (retired) [2014-2015]
- Simantini Mukhopadhyay, Assistant Professor, Institute of Development Studies, Kolkata [2015]

## 13. Percentage of classes taken by temporary faculty – programme-wise information

- Undergraduate course (BA) – 5 percent of the total course load
- Post Graduate course ( MA, PhD ) – 20 percent of the course load

## 14. Programme-wise Student Teacher Ratio

- UG Faculty to student ratio- 1: 10
- P.G Faculty to student ratio- 1: 7.5

## 15. Number of academic support staff (technical) and administrative staff: sanctioned, filled and actual

- Sanctioned post data is one. The actual number is 1. Also one Presidency College Staff (1) presently serves in non-teaching capacity.

## 16. Research thrust areas as recognized by major funding agencies

The department of political science has three thrust areas that have been recognised over time by various agencies.

Political Thought and Theory

International Relations

Indian Politics

## Presidency University

Departmental faculties have got funding from ICSSR to do research on trade union movement in West Bengal, Indo-Japan relationship from Japan Foundation. Faculties have published on the thematic areas in the form of books and publication (for details please see annexure)

### 17. Number of faculty with ongoing projects from a) national b) international funding agencies and c) Total grants received. Give the names of the funding agencies, project title and grants received project-wise.

- Ghosh Madhuchanda, Post-Doctoral Researcher, Changing Dynamics of Japan-India relations in the emerging Asia Pacific security architecture, Funding Agency: Japan Foundation 10 lakhs
- Sponsored project on Trade Unions and Collective Bargaining in Urban Labour Markets: The Case of West Bengal, Project Director: Prof. Achin Chakraborty, Institute of Development Studies, Kolkata

Role of the Faculty Member: Zaad Mahmood, Co Principal Investigator

Funding Agency: Indian Council of Social Science Research

Amount of Funding: Rs. 44.92 lakhs

**International Collaboration:** The Electoral Integrity Project, Regional Election Studies.

ARC-funded independent academic study with a research team and visiting fellows Based at the Department of Government and International Relations at the University of Sydney and the John F. Kennedy School of Government at Harvard University.

The Indian PI is Professor Lawrence Saez, from the School of Oriental and Asian Studies (SOAS), University of London.

Role of Faculty Member: Zaad Mahmood, Assistant Professor from the Presidency University Kolkata, will provide guidance on different facets of Indian elections.

### 18. Inter-institutional collaborative projects and associated grants received

- a) National collaboration    b) International collaboration

Vide Response to Q 17 above

### 19. Departmental projects funded by DST-FIST; UGC-SAP/CAS, DPE; DBT, ICSSR, AICTE, etc.; total grants received. N/A

### 20. Research facility / centre with

- state recognition : NIL
- national recognition : NIL
- international recognition : NIL

### 21. Special research laboratories sponsored by / created by industry or corporate bodies : NOT APPLICABLE

### 22. Publications: (List in annexure)

Number of papers published in peer reviewed journals (national / international)

National	:	19
International	:	4
Monographs		2
Chapters in Books		17

Edited Books	5
Books with ISBN with details of publishers	7

Number listed in International Database (For e.g. Web of Science, Scopus, Humanities International Complete, Dare Database - International Social Sciences Directory, EBSCO host, etc.)	8
---	---

- Citation Index – range / average
- SNIP
- SJR
- Impact Factor – range / average
- h-index

**23. Details of patents and income generated : NIL**

**24. Areas of consultancy and income generated : NIL**

**25. Faculty selected nationally / internationally to visit other laboratories / institutions / industries in India and abroad**

- 2015- Zaad Mahmood, Senior Visiting Fellow, Electoral Integrity Project, University of Sydney.
- 2015- Madhuchanda Ghosh, Japan Foundation, Japan
- 2015- Satyabrat Sinha, De La Salle University, Manila
- 2014- Madhuchanda Ghosh, Japan Foundation
- 2014- Satyabrat Sinha, United States Fellowship, Bard College, New York

**26. Faculty serving in**

a) National committees b) International committees c) Editorial Boards d) any other (please specify)

- Thongkholal Haokip. Founder-Editor of North East Journal
- Pradip Basu, Founder- Editor of Journal of Humanities and Social Sciences
- Zaad Mahmood- Reviewer, International Area Studies Review, Economics & Politics

**27. Faculty recharging strategies (UGC, ASC, Refresher / orientation programmes, workshops, training programmes and similar programmes).**

- 2013- Zaad Mahmood, Refresher Course, Academic Staff College, Jawaharlal Nehru University
- 2014- Madhuchanda Ghosh, Refresher Course, Academic Staff College, Burdwan University
- 2014- Satyabrat Sinha, Orientation Course, Academic Staff College, JNU
- 2015- Zaad Mahmood, Quantitative Research Workshop, Institute of Development Studies, Kolkata
- 2015- Madhura Damle, Qualitative Research Workshop, Institute of Development Studies, Kolkata

**28. Student projects**

- percentage of students who have done in-house projects including inter-departmental projects

## Presidency University

- o Students of the department are encouraged to participate in projects and fieldworks. The philosophy of the department is to encourage self-learning. To this end we have introduced Applied Politics project at the undergraduate level. 21 students of U.G Semester 5 did applied politics project on topics like Tracking the effective implementation of the Mahatma Gandhi National Rural Employment Guarantee Act (MGNREGA), The Nadia experience/Model: The reasons behind the Success (The first open defecation free district in India), Sanitation and Women in India: a class analysis
- o The PhD programme also incorporates some element of actual fieldwork with data collection and student projects.
- o Some students of the level have participated in projects of faculties in capacity of research assistant.
- percentage of students doing projects in collaboration with other universities / industry / institute : None

### 29. Awards / recognitions received at the national and international level by

- Faculty (Response in Q 17 & Q27)
- Doctoral / post-doctoral fellows : None
- Students : None

### 30. Seminars/ Conferences/ Workshops organized and the source of funding (national / international) with details of outstanding participants, if any. (List in annexure)

### 31. Code of ethics for research followed by the departments

The PhD course is in a nascent stage with first batch of students enrolling in 2014. The appointment of an ethics committee at the university level is under consideration. The department, recognising the importance of ethical consideration, has undertaken the following:

- o Academic Writing workshop was conducted by the department on 8 Sep of 2014 with special emphasis on plagiarism, citation (organised by Madhura Damle, Dr. Satyabrata Sinha).
- o The departmental PhD committee is entrusted with the responsibility of overseeing ethical issues. Some issues that are considered in reviewing the ethical dimension of research are a) Issues of copyright, intellectual property and citation: b) Ethical conduct during data gathering and interviews: c) highlight ethical issues in research dissemination and publication.
- o Anti-plagiarism and ethics in research have been incorporated in PhD course work. Sutapa Chatterjee, Assistant Librarian Presidency University, delivered a talk on copyright and plagiarism on 1 Oct 2015.
- o The university has incorporated the use of 'Turn it in' software for dissertation and assignment submission.

### 32. Student profile programme-wise:

Name of the programme	Applications received	Selected		Pass percentage	
		(results from previous years)			
(refer to question no. 4)		Male	Female	Male	Female
U.G	271	7	18	100%	100%
P.G	133	11	18	100%	100%
PhD	33	2	7	100%	100%

**33. Diversity of students**

Name of the programme (refer to question no. 4)	% of students from the same university	% of students from other universities within the State	% of students from universities outside the State	% of students from other countries
Bachelor of Arts in Political Science	NA	91	8	1
Master of Arts in Political Science		60	40	
PhD in Political Science		22	78	0

**34. How many students have cleared Civil Services and Defense Services examinations, NET, SET, GATE and other competitive examinations? Give details category-wise.**

- o Department of Political Science, Presidency University carries forward the heritage of student excellence of Presidency University. Till now only 2 batches of students have graduated from the university.
- o In 2013 Deepanjan Das cleared NET in Political Science, 2014- Sreya Das cleared NET
- o 2014- Nandan Saha, Sreya Das cleared SET also.

**35. Student progression**

Student progression	Percentage against enrolled
UG to PG	100
PG to MPhil	–
PG to PhD	15
PhD to Post-Doctoral	–
Employed	Employed in school, Colleges and administrative services
● Campus selection	
● Other than campus recruitment	
Entrepreneurs	

**36. Diversity of staff**

Percentage of faculty who are graduates	
of the same university	33% from Presidency College, Calcutta University
from other universities within the State	12
from universities from other States from universities outside the country	55

**37. Number of faculty who were awarded MPhil, PhD, D.Sc. and D.Litt. during the assessment period**

- o Zaad Mahmood, awarded PhD by School of Oriental and African Studies, University of London

**38. Present details of departmental infrastructural facilities with regard to**

- a) **Library:** Apart from the well-stocked Central Library with around 9000 books on politics, the department also has a departmental library. The department has a library committee to oversee the functions of the departmental library. Some major books (around 250) immediately relevant to courses are kept in the departmental library.

## Presidency University

- b) Internet facilities for staff and students: The department is well connected through both wired and wireless connection. The faculty cubicles have internet access. There is also one computer dedicated for student usage. The students have their own login id for the wireless connection. There is also a well-equipped computer facility in the Central library which the students can access.
- c) Total number of class rooms: The department has 4 class rooms including a large lecture theatre. The lecture theatre is air conditioned and has ICT facilities.
- d) Class rooms with ICT facility: Two class rooms in the department have ICT facilities. The ICT facilities include overhead projector, speaker system with microphone and amplifiers, and wired internet connection.
- e) Students' laboratories : Not Applicable
- f) Research laboratories : Not Applicable

### 39. List of doctoral, post-doctoral students and Research Associates

At present the department has only doctoral students. The details are as follows

- a) from the host institution/university: 2  
Presidency University: Sreya Chatterjee and Nandan Saha
- b) from other institutions/universities: 7  
Jadavpur University: Ivy Pushilal and Atreyee Mitra  
North Bengal University- John Kapil Chhetri  
Calcutta University: Anasua Chatterjee, Shilpa Shaw and Madhurilata Basu  
Jawaharlal Nehru University: Anwesha Dasgupta

### 40. Number of post graduate students getting financial assistance from the university. 3

### 41. Was any need assessment exercise undertaken before the development of new programme(s)? If so, highlight the methodology.

- o The department has a teacher-student committee to get feedback on courses and teaching-learning process. The department also utilises informal discussions to gather feedback. The BoS has its own periodic review of courses and curriculum. Based on the discussions and feedback periodic correction and changes in course curriculum are undertaken.

### 42. Does the department obtain feedback from

- a. faculty on curriculum as well as teaching-learning-evaluation? If yes, how does the department utilize the feedback?
  - o The department holds BoS meetings, PhD committee meetings. Several sub-committees discuss and deliberate on various aspects of feedback and try to improve along the desirable directions.
- b. students on staff, curriculum and teaching-learning-evaluation and how does the department utilize the feedback?
  - o There is a feedback system at the university level and student feedback is gathered centrally. Informally feedback is elicited from students about courses and teaching at the departmental level.
- c. alumni and employers on the programmes offered and how does the department utilize the feedback?



- o The department gathers feedback from the alumni and employers in informal ways and discuss them intensely within the department and grow sensibilities and awareness which finally lead to further develop our capabilities.

**43. List the distinguished alumni of the department (maximum 10)**

Partha Chatterjee, Professor of Anthropology, Columbia University, New York, USA.

Sudipta Kaviraj, Professor and Chair of the Department of Political Science, Columbia University, New York.

Alapan Bandopadhyay, IAS, State Election Commissioner, West Bengal.

Amal Kumar Mukhopadhyay, Teacher-Scholar, Ex Principal of Presidency College.

Prasanta Ray, Teacher-Scholar, Emeritus Professor of Sociology, Presidency University.

Sobhanlal Datta Gupta, S.N. Banerjee Chair Professor of Calcutta University (Retired).

Rakhahari Chatterjee, Professor in Political Science, Calcutta University (Retired). Formerly Dean, Faculty of Arts, Calcutta University

Mohit Bhattacharya, Former Vice-Chancellor of the University of Burdwan, West Bengal. Ex Chairman of the West Bengal Municipal Finance Commission, Chairman of the West Bengal Municipal Administrative Reforms Committee .

Radharaman Chakraborty, Former Vice-Chancellor of Netaji Subhas Open University, Swami Vivekananda Chair Professor at Calcutta University.

Arun Banerji, Former Dean, Faculty of Arts & Ex-Director, School of International Relations and Strategic Studies, Jadavpur University.

Ranabir Samaddar, Teacher-Scholar, Director of the Calcutta Research Group.

Bidyut Chakraborty, Former Dean of the Faculty of Social Sciences, University of Delhi and former Head of the Department of Political Science, University of Delhi.

Samir Kumar Das, Professor of Political Science and currently the Dean, Faculty of Arts at the University of Calcutta, Former Vice-Chancellor of the University of North Bengal.

Jawhar Sircar, Chief Executive Officer of Prasar Bharati, Government of India.

**44. Give details of student enrichment programmes (special lectures / workshops / seminar) involving external experts.**

- o Through regular seminars and workshops listed in Annexure 2 to 4

**45. List the teaching methods adopted by the faculty for different programmes.**

- o Teaching has been one of the strong points of the department. The faculties use a number of eclectic methods for teaching. Class lectures, intense small group discussions outside the classroom, movie and video shows, reading courses, discussions, power point presentation, seminar presentation have been the dominant modes of instruction.

**46. How does the department ensure that programme objectives are constantly met and learning outcomes are monitored?**

- o Evaluation takes place at two levels, class participation and internal assessment and final examination. The department uses the following methods in order to serve this purpose: viva, term papers, class assignment,

## Presidency University

asking questions in the class room, interaction outside the class room, Class Presentation, Dissertation and written examination,

- o The BoS periodically reviews problems arising from courses and discussed them, with the external experts and student teacher committee- so that they are stake holders in the reform of the syllabi
- o The syllabus is so framed that there will be a wide variety of items on offer so that rote learning and potted answers are not encouraged. Students are exposed to extension lectures by visiting experts, and conferences and seminars.

### 47. Highlight the participation of students and faculty in extension activities.

- o The curriculum is taught in the manner to link theory to the social setting of the department and the university. In the undergraduate course we have introduced a course on Applied Politics, where students are encouraged to go to the field and make reports on a topic of their choice. In the Postgraduate course, dissertation is a way to encourage students to be socially aware. The students themselves have formed a group in the department and arrange talks on social issues. At the heart of education is the need to make students not only socially aware of the settings but also how they can contribute to studying the problems and contributing in their mitigation.

In the undergraduate course on Applied Politics, students studied the Swachh Bharat Abhiyan, Gender disparities, ICDS, women's toilets and conducted field study in this regard and submitted a report to the department. In the PG dissertation, the students working on a wide range of topics also go into the field. Students are expected to have an understanding beyond the theoretical and curricular activities help understand that learning is not limited to the classroom. The values imparted are sensitivity, understanding of the complexity of the social world and working as a team.

### 48. Give details of "beyond syllabus scholarly activities" of the department.

- o Neo ecclesia which is an academic body of the departmental students various students' publications, informal research, seminars and outreach activities are the different ways to realise this goal.
- o Faculties and students participate extensively in the university level activities such as public lectures and cultural activities.
- o Members of the faculty are regular contributors to news media as analysts and newspaper column writer

### 49. State whether the programme/ department is accredited/ graded by other agencies? If yes, give details. No

### 50. Briefly highlight the contributions of the department in generating new knowledge, basic or applied.

See the Annexure for publication, lectures, seminars etc which constitute a testament to the academic endeavours of the department and its contribution to knowledge.

### 51. Detail five major Strengths, Weaknesses, Opportunities and Challenges (SWOC) of the department.

#### Strength:

Congenial academic environment, diversity of the faculty and highly specialized areas of work, passion for learning, required qualifications and ample experience in the department provide us the ability to achieve desired goals.

#### Weakness

Large number of young faculty members because of their lack of experience, shortage of teaching staff, shortage of non-teaching staff, lack of infrastructural facilities and funds for regular seminars and conferences are in some senses the weakness of the department.

**Opportunity**

Young faculty grow with the department and bring in new ideas and experiences of various universities from all over the world. Specialized areas offer unique opportunities for enriching the curriculum.

The department would try to ensure one more class room for simultaneously teaching five batches of students. The department would try to convert all the class rooms into audio-visual class rooms (Two class rooms have already been converted). These could be the opportunities that the department could build upon.

**Challenges:**

One of the challenges is to keep responding to the changing world around us in terms of curriculum,. The department faces the challenge to secure adequate funding from external funding agencies. The other challenge is to mould each group of students into conscientious, skilled social scientists. Moreover, to evolve with innovative teaching techniques is yet another challenge.

**52. Future plans of the department.**

The department has a common clear vision that the purpose of education is not merely to impart knowledge to the students but also develop among them skills of the various ways of thinking about the social world. We believe that good teaching is grounded in an understanding of learning. Over time we have created a student-centered learning environment through the relationship between faculty and students as well as in the functioning of the department. The department fosters a culture of inquiry and openness in the classrooms, a sense of belonging to the students and the building of relationships that maximize student development. The pedagogic practices of the department strive to develop a deeper understanding of the subject matter and extend their learning to include empirical work and actively engage with the social world.

The department shall continue its duty of imparting education through its BA and MA courses in Political Science and shall promote research activities through the PhD course, faculty publications and seminars. The department also wants to establish more exchange programmes with other foreign institutions in order to benefit from their expertise in the field of research and to provide a broad based learning environment for students of both institutions. The department is willing to play a leading role by initiating study and research programme in collaboration with other Indian universities institutes. We hope in the coming decade to evolve a more mature focus and be a centre of excellence in the discipline of political science.

## ANNEXURE

### 1. List of Publications

#### 2012-2013

**Damle, Madhura**, Book Review of 'Social Space of Language: Vernacular Culture in British Colonial Punjab' by Farina Mir, *Indian Linguistics*, Vol. 73, No. 1-4, 2012, pp. 251-253

**Damle, Madhura**, 'Language, Emotion, and Politics in South India: The Making of a Mother Tongue' by Lisa Mitechell, *Indian Linguistics*, Vol. 73, No. 1-4, 2012, pp. 251-253.

**Haokip, Thonkholal**, The Kuki-Naga Conflict in the light of recent publications, *South Asia Research*, Vol. 33, No. 1, February 2013, pp. 77-87.

**Haokip, Thonkholal**, District Status for Sadar Hills in Manipur, *Man and Society*, Vol. IX, Winter 2012, pp. 92-112.

**Haokip, Thonkholal**, Essays on the Kuki-Naga Conflict: A Review, *Strategic Analysis*, Vol. 37, Issue 2, March-April 2013, pp. 251-259.

**Haokip, Thongkholal**, Political Integration of Northeast India: A Historical Analysis, *Strategic Analysis*, Vol 36.2, 2012, pp. 304-314.

**Haokip, Thongkholal**, Is There a Pan-North-East Identity and Solidarity?, *Economic and Political Weekly*, Vol 47, 2012, pp. 84-85.

#### 2013-2014

**Gayen A. S.**, The Essence of 'Hind Swaraj' – A 21st Century Perspective, *West Bengal Political Science Review*, Vol. XV & XVI, 2012-13, 2014

**Damle M.**, Jotirao Phule and Poems by Mahatma Jotirao Phule, [Introductory note on Jotirao Phule and translation of his select poetry] *Indian Literature*, Vol 279.LVIII, 2014, pp. 10-18.

**Damle M.**, Poems by Namdeo Dhasal, [Translation of select poetry] *Indian Literature*, Vol279, LVIII, 2014, pp. 45-48.

**Haokip T.**, The Politics of Scheduled Tribe Status in Manipur, *Society and Culture in South Asia*, 1, 1 (2014).

**Haokip, Thongkholal**, "The Kuki–Naga conflict in the light of recent publications." *South Asia Research* 33.1 (2013): 77-87.

**Mahmood Zaad**, "Plight of Labour" review of *The State of Labour: The Global Financial Crisis and Its Impact* edited by Sharit Bhowmik, *The Book Review Volume XXXVIII*, 5 (2014).

#### 2014-2015

**Chatterjee, Anik**, "The Catalyst? Indian Diaspora and India – U.S. Relations after the Cold War", *The West Bengal Political Science Review*, 17 (2) (2014): 241-49.

**Haokip, Thongkholal**, "India's Look East Policy: Prospects and Challenges for Northeast India", *Studies in Indian Politics*, 3 (1) (2015).

**Haokip, Thongkhohal**, “The Politics of Scheduled Tribe Status in Manipur”, *Society and Culture in South Asia*, 1 (1) (2015): pp. 82-89.

**Islam, Maidul**, “Editorial”, *Studies in Humanities and Social Sciences*, 19(1 & 2) (2012: Backlog issue published in 2015): 1-5.

**Islam, Maidul**, “Metaphysics of Islam: A Critical Inquiry,” *Studies in Humanities and Social Sciences*, 19 (1 & 2) (2012: Backlog issue published in 2015): 171-200.

## International Journals

### 2012-2013

**Haokip, T.** (2012). Recent trends in regional integration and the Indian experience. *International Area Studies Review*, 15(4), 377-392.

### 2013-2014

**Haokip T.** “Inter Ethnic Relations in Meghalaya”. *Asian Ethnicity* 15, 3 (2014): 302-316. DOI: 10.1080/14631369.2013.8535452013

**Haokip T.** “India’s Look East policy: Its Evolution and Approach”. *South Asian Survey*. 18, 2 (2011): 239-257. DOI: 10.1177/0971523113513368 (published in 2014)

### 2014-2015

**Das, Ritanjan and Zaad Mahmood**, “Contradictions, Negotiations and Reform The Story of Left Policy Transition in West Bengal,” *Journal of South Asian Development*. 10 (2): 199-229 Impact Factor 0.235

## Edited Books

### 2012-2013

**Ghosh, Madhuchanda**, Rajkumar Kothari and Yamamoto Takehiko (eds.), *US Policy Towards China, India and Japan: New Challenges and Prospects*, Atlantic Publishers, New Delhi, 2013.

**Haokip, Thongkhohal**, (ed). *The Kukis of Northeast India: Politics and Culture*. New Delhi: Bookwell, 2013.

**Basu, Pradip**, (Ed.) *Monone Srijone Naxalbari*, Kolkata & New Delhi: SetuPrakashani, 2012 (Bengali) .

### 2014-2015

**Basu, Pradip**, Ed. *Political Sociology*, Kolkata & New Delhi: Setu Prakashani, 2015.

**Basu, Pradip**, Ed. *Social Theorists of Modern Times*, Kolkata & New Delhi: Setu Prakashani, 2015.

## Books

**Haokip, Thongkhohal**, *India’s Look East Policy and the Northeast*. New Delhi: Sage Publications, 2015.

**Islam, Maidul**, *Limits of Islamism: Jamaat-e-Islami in Contemporary India and Bangladesh* New Delhi: Cambridge University Press, 2015.

## Book Chapter

### 2012-2013

**Basu, Pradip**, ‘Bentham’s Utilitarian Ethics: Postmodern Review’ in M. Jahan & P. Bhattacharya (ed.), *Some Essays on Utilitarianism*, published by the Department of Philosophy, University of Calcutta, Kolkata, 2012.

## Presidency University

**Basu, Pradip**, Swami Vivekananda: Spiritual Nationalism and Doctrine of the State [in Bengali] in A. K. Mukhopadhyay (ed.) *Bharatiya Rashtra Chinta Parichay*, Kolkata: Paschimbanga Rajya Pustak Parshat, October 2013.

**Haokip, Thongkholal**, *The Kuki Tribes of Meghalaya: A Study of their Socio-Political Problems*, in S.R. Padhi (ed.). *Current Tribal Situation: Strategies for Planning, Welfare and Sustainable Development*. Delhi: Mangalam Publications, 2013, pp. 85-93.

**Gayen, Abdus Samad**, *Poribesh Rajniti - Aantarjatik Prekshit* (in Bengali), in Gautam Kumar Basu (ed.), *Samasamayek Aantarjatik Samparka*, Kolkata, West Bengal State Book Board, 2012, pp. 36 – 49

**Ghosh, Madhuchanda**, *India and Japan: A New Economic Partnership*, in Rajkumar Kothari (ed.), *India and the World: Confronting Challenges of the Twenty First Century*, Atlantic Publishers, New Delhi

**Sinha, Satyabrat**, *Afghanistan's Countdown to 2014: The Evolving Situation*”, in Malhotra, Gill (eds.), *Leveraging Economic Growth for Collective Prosperity in South Asia*, CRRID, Chandigarh, March 2013.

**Sinha, Satyabrat**, *The Domestic Imperatives of China's Central Asia Policy*” in Malhotra, Gill (eds.), *Perspectives in Bilateral and Regional Cooperation in South And Central Asia*, CRRID, Chandigarh, December 2013.

### 2013-2014

**Chatterjee A.** (2013), “The Neglected Domain? Maulana Azad's Contribution to Indian Science and Technology”, in Buddhadev Mishra and Sachindra Nath Das (ed.), *Politics and Conflict: Lessons from Maulana Abul Kalam Azad* (ISBN: 9788192551906),

**Ghosh M. ed.**, “India-Japan relations: The Dividend of Cultural Affinity”, in *Japan-SAARC Partnership*, (New Delhi: Pentagon Press), 2014.

**Haokip T.** “The Kuki Tribes of Meghalaya: A Study of their Socio-Political Problems”, in *Current Tribal Situation: Strategies for Planning, Welfare and Sustainable Development*, ed. Soubhagya Ranjan Padhi (Delhi: Mangalam Publications), 2013.

### 2014-2015

**Basu, Pradip**, “Foucault's Prison Principles and the Colonial Indian Prison System” in *Indian Prisons*, edited by K. Jaishankar, T. Mukherjee, P. Bharadwaj, M. Desai Asher, New Delhi: Atlantic, 2014.

**Basu, Pradip**, “Naxalite Movement: An Anti- imperialist Perspective”, *The Palgrave Encyclopedia of Imperialism and Anti-imperialism*, Ed. By Immanuel Ness & Zak Cope, London: Palgrave Macmillan.2015.

**Basu, Pradip**, “Postmodernism and Political Sociology” in *Political Sociology*, edited by Pradip Basu, Kolkata & New Delhi: Setu Prakashani, 2015.

**Damle, Madhura**, “Civil Society”, in *Political Sociology*, edied by Pradip Basu, Kolkata: Setu Prakashani, 2015.

**Damle, Madhura**, “Jotirao Phule”, in *Social Theorists in Modern Times*, edited by Pradip Basu, Kolkata: Setu Prakashani, 2015.

**Islam, Maidul**, “Ernesto Laclau: The Quintessential Theorist of Populism.” in *Social Thinkers of Modern Times*, edited by Pradip Basu, Kolkata & New Delhi: Setu Prakashani, 2015.

**Islam, Maidul**, “Indian Muslims and the Radical Democratic Project,” in *Democratic Governance and Politics of the Left in South Asia*, edited by Subhoranjan Dasgupta, New Delhi: Aakar Books, 2015.

**Mahmood, Zaad**, “The essence of power: Connotations of a contested concept,” in *Political Sociology*, edied by Pradip Basu, Kolkata: Setu Prakashani, 2015.

**Magazines and Articles**

**2013-2014**

**Islam, Maidul**, (2014) ‘On Muslim Question, Affirmative Action and Contemporary Bengal Politics’, Two parts Editorial page article, Ei Samay (Times of India Bengali newspaper), March 25-26.

**2014-2015**

**Ghosh, Madhuchanda**, ‘Modi’s Focus on India-Japan relationship’, Japan Times, August, 25

**Chaudhuri, Subhanil and Zaad Mahmood**, (2014), Bibhinno Karkhana Jhap Felche Rajye: Jeno Jangi Sramik Andoloni Dayi, Ei Samay (Bengali Newspaper), September 17, Special article

**Islam, Maidul**, (2015) ‘On the Killings of Bangladesh Bloggers and the Problem of Religious Fundamentalism in India and Bangladesh’, Editorial page essay in two parts, Ei Samay (Times of India Bengali newspaper), April 06-07.

**Islam, Maidul**, (2015) ‘The Specificity of Moditva’, The Global Mirror, March 16.

**Islam, Maidul** (2015) ‘Religious Fundamentalism and Terrorism’, Arekrakam (in Bengali), 3 (2). January, 16-31. pp. 30-33.

**Islam, Maidul**, (2014) ‘On Bye Elections in Indian States’, Editorial page article, EiSamay (Times of India Bengali newspaper), September 24.

**Islam, Maidul**, (2014) ‘On Moditva’, Editorial page article, Ei Samay (Times of India Bengali newspaper), August 07.

**Islam, Maidul**, (2014) ‘On 2014 Lok Sabha Elections and the Trajectory of Left Politics in India’, Arekrakam (in Bengali), 2 (11). June, 1-15. pp. 26-28.

**Islam, Maidul**, (2014) ‘On 16th Lok Sabha Election Results’, Editorial page article, Ei Samay (Times of India Bengali newspaper), May 17.

**Islam, Maidul**, (2014) ‘On Exit Polls and its methodological limitations in India’, Editorial page article, Ei Samay (Times of India Bengali newspaper), May 14.

**2015-2016**

**Ghosh, Madhuchanda**, (2015), ‘India-Japan Strategic Partnership: Renewed Focus on Peace and Security,’ Yomiuri Japan News, December 9

**Islam, Maidul**, (2015) ‘On 2015 Bihar Assembly Election Results’, Anandabazar Patrika, November 10.

**Islam, Maidul**, (2015) ‘On Beef Politics’, Anandabazar Patrika, October 29.

**Islam, Maidul**, (2015) ‘On Democracy, Freedom of Expression and Intellectual’s Response to Communalism in Contemporary India’, Ei Samay (Times of India Bengali newspaper), October 29.

**Islam, Maidul**, (2015) ‘Political Analysis of Poll Violence in Contemporary West Bengal’, Anandabazar Patrika, October 08.

**Islam, Maidul**, (2015) ‘On Strikes, Power Tariff and Contemporary Opposition Politics in West Bengal’ with Garga Chattopadhyay, Ei Samay (Times of India Bengali newspaper), September 14.

**Islam, Maidul**, (2015) ‘Book Review of Ziadduddin Sardar’s Mecca: The Sacred City’, Anandabazar Patrika, July 18.

**Islam, Maidul**, (2015) ‘The Foundation of Communal Politics in Bengal: Some Preliminary Thoughts’, Sramajibi Bhasha (in Bengali), 5 (4). pp. 12-14.

## Presidency University

**Islam, Maidul**, (2014) 'Reminiscing West Bengal Politics in 2014', Editorial page essay, Ei Samay (Times of India Bengali newspaper), December 22.

## Occasional and non-referred papers

### 2012-2013

**Haokip, Thongkhohal**, "Kuki Churches Unification Movements." *Journal of North East India Studies* 2.1 (2012): 1-17.

**Haokip, Thongkhohal**, "District Status for Sadar Hills in Manipur." *Man and Society* 9 (2012): 92-112.

**Basu, Pradip**, 'Governance & Naxalism' published by the Department of Political Science, University of Calcutta, UGC, DRS(Phase II), 2012

### 2013-2014

**Haokip, Thongkhohal**, "The Kuki Tribes of Meghalaya: A Study of Their Socio-Political Problems." *Current Tribal Situation: Strategies for Planning, Welfare and Sustainable Development* (2013): 85-93.

**Mahmood Z.** *Federalism and Foreign Policy: Limits of the Political-Institutional Framework in India*. Institute of Policy and Conflict Studies (<http://www.ipcs.org/article/india/federalism-and-foreign-policy-limits-of-the-political-institutional-framework-4284.html>), (2014).

### 2014-2015

**Islam, Maidul**, "Public Protests and Political Dissent in Our Times". UGC-DRS Occasional Paper Series, Department of Political Science, University of Calcutta, 2015.

**Mahmood, Zaad**, "Governance after poriborton: News, Views and Perceptions", *Papers on Democratic Governance*, UGC-DRS (Phase II) programme, Department of Political Science, University of Calcutta, (2014-15).

## 2. Seminar participation

### 2012-13

**Basu, Pradip**, presented a paper entitled, 'Conflict in Indian Marxism: Critique of Naxalism in Postcolonial Perspective' at the Conflict Research Society's 50th Anniversary Conference held at the University of Essex, UK. September

**Damle, Madhura**, presented a paper titled 'Construction of Alternative Religious Practices in Non-Brahmin Movement' in a national seminar on Democracy, Development and Social Justice organized by CPS, Jawaharlal Nehru University March

**Gayen, Abdus Samad**, presented a paper on 'Reflections of a Creative Genius: Tagore on the Hindu-Muslim question in India' at the Conflict Research Society International Conference 2013 held at the University of Essex, UK, Sept

**Gayen, Abdus, Samad** presented a paper on 'Power, Politics and the Limits of Parliamentary Democracy in India' at the International Seminar held at the India International Centre, Delhi during 16th-17th March

**Haokip, Thongkhohal**, presented a paper titled The Politics of Indigeneity in Manipur, at conference on Continuities and Discontinuities of Asian Engagement: Borders, Mobility and Identity in Northeast India and Asia, held during October 17-18, 2013 at Indian Institute of technology, Guwahati.

**Haokip, Thongkhohal**, presented a paper titled Challenges of Democratic Governance in Manipur, at international conference on Human Development in North East India, Assam University, Silchar, 18-20 March 2013.



**Mahmood, Zaad**, delivered a paper titled Organised Workers and Labour Reforms in India: some preliminary observation, in the Rising Powers in the New Global Political Economy at University of Nottingham, United Kingdom, 5 -6 July, 2013

**Islam M.** 'Moditva's rise to power: Signposts from the postcolonial populist democracy in India', International Political Theory Workshop organized by the Centre for Comparative Political Thought at School of Oriental and African Studies, University of London and Centre for the Study of Political Ideologies, University of Nottingham; Place of Conference: School of Oriental and African Studies, University of London (27 June, 2014)

**Islam M.** 'Ernesto Laclau and the Possibility of Postmodern Politics', UGC sponsored conference titled The Postmodern Paradigm in Philosophy under the Special Assistance programme (SAP) at the Department of Philosophy, North Bengal University (13-14 February, 2014).

**Islam M.** 'Public Protests and Political Dissent in Our Times', Seminar delivered at the Centre for Studies in Social Sciences, Calcutta (7th February, 2014).

**Islam M.** 'Indian Muslims and the Radical Democratic Project', International Conference on Democracies in South Asia and the Role of the Left, organised by Institute of Development Studies, Kolkata [IDSK] and sponsored by Rosa Luxemburg Foundation, Berlin; Place of Conference: IDSK (20-22 November, 2013).

**Islam M.** 'Imag(in)ing Indian Muslims in Post-Liberalization Hindi Cinema', Seminar delivered at the Indian Institute of Advanced Study, Shimla (24th October, 2013).

**Sinha S.** "Evaluating the Impact of the Look East Policy on the North East Region of India" on India and China in Southeast Asia, at the Maulana Abul Kalam Azad Institute of Asian Studies, Kolkata and the Association of Asian Scholars, November 24-25, 2013.

**Babu YS.** Presented a paper on "Gandhian Conception of Peace and Non Violence: A thought for 21st Century's Democracy", in Mahatma Gandhi Kashi Vidyapith University, January 2014.

**Mahmood Z.** Paper presented at UGC-UPE II National Seminar on Post-Liberal Societies: Utopia, Illusion or Reality? School of International Relations And Strategic Studies, Jadavpur University titled 'Post-Liberal Politics: Interrogating Partisan Dynamics of Policy.' March 20, 2014

**Mahmood Z.** Paper presented at the Conference on Rising Powers in the New Global Political Economy, University of Nottingham, United Kingdom titled 'Organised workers and labour reforms in India.' July 5th-6th 2013.

## 2014-2015

**Chatterjee, Anik**, "A Nuclear South Asia and New Security Challenges", The Sixth Oceanic Conference on International Studies (OCIS 2014), Old Arts Building, University of Melbourne (Australia), 11 July, 2014.

**Chatterjee, Anik**, "Market Economy in India and the Dangers of Social Exclusion", International Conference on Poverty and Social Protection, organized by Tomorrow People Organization (Belgrade), Bangkok, Thailand, 9-11 March, 2015.

**Chatterjee, Anik**, "Will Democracy Survive? Afghanistan and Global Politics post 2014", UGC sponsored two-day National Seminar on India: An Emerging Global Power, Department of Political Science with Rural Administration, Vidyasagar University, Midnapore (West Bengal), India, 12 March, 2015.

**Chatterjee, Anik**, Chaired a Panel on "India and Major Powers", UGC sponsored two-day National Seminar on India: An Emerging Global Power, Department of Political Science with Rural Administration, Vidyasagar University, Midnapore, 12 March, 2015.

**Damle, Madhura**, "Defining 'Dialect': A Survey of Linguistic Survey of India". National Seminar on Dialect &

## Presidency University

Identity Crises organized by Hindi Department, Presidency University and Central Institute of Indian Languages, Mysore, Presidency University, Kolkata, 24 February, 2015.

**Gayen, Abdus Samad**, “Conflicts, Security and Insecurity: The Gandhian Perspectives”, UGC- DRS programme, Department of Political Science, Calcutta University, 4 March, 2015.

**Gayen, Abdus Samad**, “M.N. Roy : The relevance of his political ideas in Contemporary India”, National Seminar organised by The All Indian Renaissance Institute, Kolkata, 24 January, 2015.

**Haokip, Thongkhohal**, “Understanding Ethnic Relations in Manipur”, Seminar on Autonomy Movements and Politics of Regionalism in North East India, Mizoram University, Aizawl, 11-12 March, 2015.

**Islam, Maidul**, “The Elusive yet Necessary Idea of Justice”, National Seminar on Is There an Adequate Theory of Justice, Indian Institute of Advanced Study, Shimla, 20-21 March, 2015.

**Islam, Maidul**, “Political Behaviour of Religious Minorities in West Bengal”, ICSSR sponsored conference on Elections 2014: Implications for Dalits and Minorities in India, Dr. K.R. Narayanan Centre for Dalit and Minority Studies, Jamia Millia Islamia, New Delhi, 2-3 September, 2014.

**Islam, Maidul**, “Regional Political Parties and Indian Democracy”, Seminar organized by Presidency Alumni Association, Department of Political Science, Presidency University, Kolkata, 18 December, 2014.

**Islam, Maidul**, “The Realignment of Political Forces in Indian Democracy: Some Latest Trends”, Democracy and Federalism in India: Some Latest Trends, Tri-University Seminar on Democracy and Federalism in India: Some Latest Trends, Presidency University, Kolkata, 27 March, 2015.

**Islam, Maidul**, “Two Forms of Protests and Two Ethics of Dissent in Our Times”, Institute of Development Studies, Kolkata, 12 November, 2014.

**Mahmood, Zaad**, “Federalism, Democracy and Reform”, Tri- University seminar on Democracy and Federalism in India: Some Latest Trends, Presidency University, Kolkata, 27 March, 2015.

**Mahmood, Zaad**, “Industries, Trade Unions and Industrial Relations”, 56th Annual Conference of Indian Society of Labour Economics, BIT Mesra Ranchi, 18-20 December, 2014.

**Mahmood, Zaad**, “Judicial Intervention and Industrial Relations: exploring industrial disputes cases in West Bengal”, 56th Annual Conference of Indian Society of Labour Economics, BIT Mesra Ranchi, 18-20 December, 2014.

**Mahmood, Zaad**, “Partisan politics and business-friendly policies: interrogating sub-national policy variation in India”, Third Azim Premji University International Conference on Law, Public Policy & Governance, Bangalore, January 9-10, 2015.

**Damle, Madhura**, presented a paper titled “Coiffuring Marathi: Standardization of Vernacular in Colonial Maharashtra” in the seminar on ‘The Indian Vernacular: Languages, Literatures and Histories’ organized by Department of English, University of Delhi on 7th to 9th September 2015.

### 3. Seminar / Talk Organised in the Department

#### 2012-2013

**Hiten Patel**, Head of the Department of History, Rabindra Bharati University delivered lecture on the life and work of Eric Hobsbawm

**Dhruv Jain**, York University, United Kingdom delivered a lecture on Gramsci and Althusser (details required)

13/08/2013 - Prof. Kunal Sen of Manchester University delivered lecture on the Political Economy of Growth and Development: What do we know and what do we need to know? INT.

14/08/2013 - Screening of 'Le Brahmane Du Komintern' (The Comintern Brahmin-untold story of M.N.Roy) by Vladimir Leon Preceded by talk by Prof. Sobhanlal Dutta Gupta (Former S.N. Banerjee Professor of Political Science, Calcutta University)

13/09/2013- Deputy Ambassador of France, Mr. Jean Marc Sere Charlet, Embassy of France, New Delhi delivered a talk on "Indo-French Bilateral Relations"

23/09/2013 Consul General of Japan, Mr. Mitsuo Kawaguchi, delivered a talk on "Evolving India-Japan relations"

### 2013-2014

04/07/2014 International Seminar on 'Peace Science, Peace Economics and Conflict Management: theme – South Asia' in collaboration with Binghamton University, New York, 04 July 2014.

Lecture by Dr. Ritanjan Das, University of Portsmouth on 'Negotiating Neoliberalism: Narrating Left Policy Transition in West Bengal', 22 April 2014

Lecture by Neha Hui, University of Reading on 'Economics of Sex Work in India', 2nd April 2014.

Lecture by Anindya Dutta Gupta, Jawaharlal Nehru University on 'Can Political Agendas Influence What We Learn in School? An examination of the Relationship between Political Regimes and School Curriculum', 19th March 2014.

Talk by Professor Akio Takahara, Professor of Tokyo University on the theme 'East Asian Security and the Emergence of China', March 11, 2014.

Lecture by Dr. Tomoko Kiyota, Japanese post-doctoral scholar, Takushoku University, Tokyo, January 2014.

### 2014-2015

17/11/2014 First Nirmal Kanti Majumdar Endowment Lecture Series Speakers:

Prof. Rajeev Bhargava (Professor, Centre for Studies in Developing Societies, Delhi)

Prof. Shubhashis Gangopadhyay (Director, School of Humanities and Social Sciences, Shiv Nadar University)

27/03/2015 Tri-University Seminar on 'Democracy and Federalism in India: Some Latest Trends' jointly organized by The Department of Political Science, Calcutta University, and The Department of International Relations, Jadavpur University

19th Dec '14 Dr. Rajat Ganguly (Associate Professor of Security Studies & International Relations, Murdoch University, Australia) delivered a talk on China's Indian Ocean Strategy and India's Response

16th Feb '15 Pratyay Nath (Research Scholar, Centre for Historical Studies, JNU, New Delhi) delivered a talk titled 'Apparently These Delicate Men of Hot Countries Were Averse to Campaigning in a Cold Country': How Climate Shaped Mughal Warfare & Empire Building

2nd Mar '15 Dr. Sharmistha Saha (Postdoctoral Fellow, Free University, Berlin) gave a lecture on 'What is Theatre?: Political Journey of thiyetar(?) in Colonial India

15th Sep '14 Dr. Anupama Mohan (Assistant Professor, Department of English, Presidency University) talked on Anger, Civility and Ethical Self-Fashioning in Modern India

20th Oct '14 Dr. Sudeshna Purkayastha (Reader, Department of History, Assam University, Silchar) A Peasant Uprising in 19th Century Assam: Patharughat Movement and its Consequences

18/12/2014 A Panel Discussion on 'Regional Political Parties and Indian Democracy' was organised by the Department in collaboration with Presidency Alumni Association.

## Presidency University

01/09/2014 A special lecture on 'Gandhi's Critique of Modernity and Western Thinkers' was organized jointly by Council for Political Studies and Department of Political Science, Presidency University

### 4. Resource Person/Invited Lectures

#### 2012-13

**Gayen, Abdus Samad**, was invited as a Resource person to speak on 'Relevance of Gandhi in the 21st Century' on 9th March 2013 at the UGC sponsored Refresher Course, Department of Political Science, University of Calcutta.

**Gayen, Abdus Samad**, spoke on 'Swami Vivekananda in the Contemporary Perspective' at Belghoria Ramkrishna Mission on 15th February 2013

#### 2013-2014

**Chatterjee A.** Invited as a Resource Person to speak on "Politics of Environment", at the UGC-sponsored 22nd Refresher Course in 'Environmental Studies (Arts)' for college and university teachers (Feb 18 – March 10, 2014), Academic Staff College, University of Burdwan, West Bengal, India, March 04, 2014.

**Chatterjee A.** Invited to speak on "Aam Admi Party: A New Trend in Indian Politics?", at a seminar organized by the Department of Political Science, S.A. Jaipuria College, Kolkata, India, February 28, 2014.

**Chatterjee A.** Invited as a Resource Person to speak on "Politics and Society in India: Towards a Structural Shift?", at the UGC-sponsored 93rd Orientation programme for college and university teachers (Jan 04 – 31, 2014), Academic Staff College, University of Burdwan, West Bengal, India, January 16, 2014.

**Chatterjee A.** Invited to present a paper entitled "Two Decades after Economic Liberalization: Examining India's Road to Progress", at The International Symposium on Social Sciences (TISS), Regal Airport Hotel, Hong Kong (China), December 20, 2013.

**Chatterjee A.** Invited to deliver a lecture on "Life, Time and Work of Maulana Abul Kalam Azad" in a seminar to commemorate the 125th Birth Anniversary of MAK Azad, Maulana Azad College, Kolkata, India, November 20, 2013.

**Chatterjee A.** Invited as a discussant on the address on 'Investment Opportunities in Rwanda' by the High Commissioner of Rwanda in India, H.E. Ernest Rwamucyo; organized by the Confederation of Indian Industries (CII), Tata Steel House, Kolkata, India, May 14, 2014.

**Chatterjee A.** Invited as a discussant on the address on 'Shaping the Future of Trade and Connectivity in the Indo-Pacific' by the US Deputy Assistant Secretary of State, South and Central Asian Affairs, Fatema Z. Sumar, organized by the Confederation of Indian Industries (CII) and the US Consulate in Kolkata, Park Hotel; Kolkata, India, May 08, 2014.

**Islam M.** 'Critical Perspectives in Politics and Economics', Special Lecture Series of Jadavpur University Heterodox Economics Association; Place of three lectures: Department of Economics, Jadavpur University (April 2014).

**Gayen AS.** Delivered a talk on 'Relevance of Swami Vivekananda in Contemporary India' at Dhakuria Rama Krishna Mission Study Centre, Kolkata, January 2014

**Mahmood Z.** Special Lecture delivered in Presidency University titled 'Who Governs matters' organized by Council for Political Studies & Department of Political Science, Presidency University. 3 March, 2014.

**Mahmood Z.** Participated in the 41st Refresher course in Political Science held at Academic Staff College, Jawaharlal Nehru University, Delhi. October 14 to November 8, 2013.

**Islam, Maidul**, 'New Frontiers of Research in the Contemporary World,' Key Resource Person for PhD Research Students, Rabindra Bharati University, Kolkata (13 March, 2015).

## 2014-2015

**Basu, Pradip**, "Postcolonial Political Theory", The first academic session of the year-long golden jubilee celebration of the Department of Political Science of the Scottish Church College, Kolkata, 14 January, 2015.

**Mahmood, Zaad**, Contributor to "PGPM SLM Module II", Paper IV Comparative Politics, NetajiSubhas Open University.

**Chatterjee, Anik**, "Contemporary US Foreign Policy and India-US Relations", UGC sponsored Refresher Course for college and university teachers on Contemporary International Relations: Trends and Perspectives, Department of International Relations, Jadavpur University, Kolkata, India, 14 February, 2015.

**Chatterjee, Anik**, "Changing Patterns of Journalism in the Socio-Political Context of Democracies: India and the United States", Muralidhar Girls' College, Kolkata, India, 25 September, 2014.

**Chatterjee, Anik**, "Recent Trends in India – U.S. Relations", Vivekananda College for Women, Kolkata, India, 28 January, 2015.

**Damle, Madhura**, "Jotirao Phule", A Session on Reintroducing Caste, Presidency University, 17 October, 2014.

**Gayen, Abdus Samad**, "Religion and Politics in contemporary India", Department of Political Science, Birati Mrinalini Datta College, 24 Parganas(N), 17 December, 2014.

**Gayen, Abdus Samad**, "Swami Vivekananda and his ideas about Bharatvarsha", Chandannagore, Vivek Bikshan, Hooghly, 17 January, 2015.

**Ghosh, Madhuchanda**, "Asia Pacific security architecture: Japan's shifting strategic focus, Rikkyo University, Tokyo, 8 September, 2014.

**Ghosh, Madhuchanda**, "Community Building in East Asia: A Perspective Analysis", National Graduate Institute for Policy Studies, Tokyo, 10 September, 2014.

**Ghosh, Madhuchanda**, "India-Japan EPA: Economic and strategic implications", Kobe University, 16 September, 2014.

**Islam, Maidul**, "Ascendancy of Right in Contemporary Indian Politics", Department of Political Science, Seth Anandaram Jaipuria College, Kolkata, 12 December, 2014.

**Islam, Maidul**, "Between Onuprobesh (Infiltration), Obhibashon (Immigration) and Shoronarathi (Refugee): Examining the Political Rhetoric of BJP on Citizenship in Contemporary West Bengal", South Asia Day, Oxford Department of International Development, Oxford, 28May, 2015.

**Islam, Maidul**, "Indian Politics in Bollywood Cinema", Loreto College, Kolkata, 6 February, 2015.

**Mahmood, Zaad**, "Judicial Activism in India: history, philosophy and politics", Department of Political Science, Seth Anandaram Jaipuria College, Kolkata, 26 September, 2014.

**Islam, Maidul**, 'Research Training Seminar,' Key Resource Person for PhD Research Students, Rabindra Bharati University, Kolkata (14 August, 2015).

**Islam, Maidul**, 'On Human Rights', Rani Dhanya Kumari College, Jiaganj, Murshidabad, seminar financed by UGC (26 November, 2015).

**Islam, Maidul**, 'Politics, Rules and Marginality: The Logic of Power and the People', Department of Political Science, Scottish Church College, Kolkata (05 October, 2015).

## Presidency University

**Islam, Maidul**, ‘Can Islamism Offer an Alternative Political Economy System?’ Jindal School of Government and Public Policy, O.P. Jindal Global University, Sonapat (30 September, 2015).

## Workshops and discussions

### 2012-13

**Haokip, Thongkholal**, “Politics of Territoriality in Northeast India”, Tata Institute of Social Sciences, Mumbai, January 9, 2013.

**Haokip, Thongkholal**, “Political Identity for Political Movement”, workshop on “Contours of Kuki Nationalism”, at Churachandpur, Manipur on November 3, 2013.

**Ghosh, Madhuchanda**, was a panelist in a round table discussion on India-Japan Strategic Dialogue, organised by Japan Foundation at Manipal University, Manipal during 18-19 October, 2013

**Ghosh, Madhuchanda**, was as a panelist in a round table discussion on Japan-SAARC Partnership : The Way Ahead, organised by JNU, New Delhi

**Ghosh, Madhuchanda**, was a panelist in a round table discussion on Japan’s evolving Foreign Relations on during November 23rd - November 30th 2013, organised by Nippon Foundation in Osaka, Kyoto and Tokyo.

**Mahmood, Zaad**, participated in Early Career Research Skill Workshop at University College London, London, January 2013

### 2014-2015

**Islam, Maidul**, “Inequality and Disadvantaged Communities: Lessons from the India Exclusion Report 2013-14”, Panel Discussant, Rotary Sadan, Kolkata, 27 January, 2015.

**Mahmood, Zaad**, “Politics of Student Protests in Bengal’s campuses”, Tata Steel Kalam, Kolkata, 27 January, 2015.

### 2015-2016

**Ghosh, Madhuchanda**, was a panelist in the international workshop on ‘Japan’s New Security Partnerships,’ International Christian University, Tokyo, November 4-6, 2015

**Ghosh, Madhuchanda**, presented a paper on ‘India’s Cultural Diplomacy,’ at China Foreign Affairs University, Beijing, China, 15 December, 2015

**Islam, Maidul**, ‘Limits of Islamism: Jamaat-e-Islami in Contemporary India and Bangladesh’, Book Talk in South Asia Day, Oxford Department of International Development, Queen Elizabeth House, Oxford (28May, 2015).

**Islam, Maidul**, ‘Women, Democracy and Human Rights in South Asia’, in Celebrating South Asian Women’s Day for Peace, Democracy, Justice and Human Rights, organised by SWAYAM, Panel Discussant, Rotary Sadan, Kolkata (30 November, 2015).

**Islam, Maidul**, ‘Limits of Islamism: Jamaat-e-Islami in Contemporary India and Bangladesh’, Book Talk at Dr. K.R. Narayanan Centre for Dalit and Minorities Studies, Jamia Millia Islamia, New Delhi (01 October, 2015).

**Mahmood, Zaad**, participated in a week-long workshop on ‘Quantitative Research Methods in Social Sciences’ organised by Institute of Development Studies Kolkata, 2015.

**Damle, Madhura**, participated in a week-long workshop on ‘Qualitative Research Methods in Social Sciences’ organised by Institute of Development Studies Kolkata on July 21 - 25, 2015.

## Chair/Participation

### 2013-2014

**Chatterjee A.** Chaired a panel on “Global Politics and Governance: Theories and Practice” at the 15th Annual Conference of the West Bengal Political Science Association, Lady Brabourne College, Kolkata, India, March 30, 2014.

**Chatterjee A.** Chaired a panel on “Political Economy” at the UGC-UPE II National Seminar on the theme Post Liberal Societies: Utopia, Illusion or Reality at the School of International Relations and Strategic Studies, Jadavpur University (India), March 20, 2014.

**Chatterjee A.** Chaired a panel on “Economics / Finance” at The International Symposium on Social Sciences (TISS) at the Regal Airport Hotel, Hong Kong (China), December 20, 2013

**Chatterjee A.** Chaired a seminar lecture on “The Indian State and Communalism”, presented by Vibhuti Narayan Roy, Hon’be Vice-Chancellor, Mahatma Gandhi International Hindi University, Wardha (India), organized by the Department of Hindi, Presidency University, Kolkata, India, at the AJC BoSe Auditorium, Presidency University, Kolkata, August 30, 2013.

**Chatterjee A.** Acted as a Chair for a seminar lecture on “The Political Economy of Development: What Do We Know, What Do We Need to Know”, presented by Prof. Kunal Sen, Manchester University, U.K., organized by the Department of Political Science, Presidency University; AJC Bose Auditorium, Presidency University, Kolkata, India, August 13, 2013.

**Gayen AS.** Participated as a panelist in the inaugural seminar on “Gauri Ayyub Memorial Lecture” at Srisikshayatan College, Kolkata, Feb 2013.

**Sinha S. Chaired,** Panel on “Role of migrations trans-border networks and solidarities”, International Conference on Negotiating Ethnicity: Politics and Display of Cultural Identities in North East India, organized by the Austrian Academy of Social Sciences and University of Vienna, Vienna, Austria, 4-6 July, 2013

### 2014-2015

**Basu, Pradip,** Chaired the Session on “Rethinking the Theoretical Understanding of Democracy and Federalism in India”, Tri-University Seminar on Democracy and Federalism in India: Some Latest Trends, Presidency University, Kolkata, 27 March, 2015.

**Chatterjee, Anik,** Chaired a Panel on “India and Major Powers”, UGC sponsored two-day National Seminar on India: An Emerging Global Power, Department of Political Science with Rural Administration, Vidyasagar University, Midnapore, 12 March, 2015.

**Chatterjee, Anik,** Chaired a panel on “Issues in International Relations”, The 16th Annual Conference of the West Bengal Political Science Association, Kalyani University, West Bengal, India, 21 March, 2015.

**Chatterjee, Anik,** Chaired a panel on “The Experience of Federalism in India: Selected Case Studies” at the Tri-University Seminar on Democracy and Federalism in India: Some Latest Trends, Presidency University, Kolkata, 27 March, 2015.

**Suresh, Yarraguntla,** Chaired a panel on “Identity and Politics”, Researchers at Work Conference, Centre for comparative Literature, University of Hyderabad, Hyderabad, 10- 12, September, 2014.

**Mahmood, Zaad,** Chaired the Young Scholars session in the National Seminar on Jawaharlal Nehru and the Making of Modern India, organized by Nehru Studies Centre, Departments of Political Science and History, Calcutta University and Council for Political Studies on 30-31 March, 2015

## **Presidency University**

Attended as a resource person and chaired a session in a conference titled 'RAW.CON 2014, Centre for Comparative Literature, University of Hyderabad, 10th- 12th, September, 2014.

## **International Seminar**

04/07/2014 International Seminar on 'Peace Science, Peace Economics and Conflict Management: theme – South Asia' in collaboration with Binghamton University, New York, 04 July 2014.

06/10/2015 International Conference on 'India –Japan Relations' in collaboration with and funded by the Consulate General of Japan.

## **Department**

The Department of Political Science was formed in 1960 by bifurcation of the Department of Economics and Political Science. The department introduced independent postgraduate course from 2010-11, while PhD programme was commenced very recently. The first PhD batch is currently undertaking the coursework.

The thrust areas of the department include Political Theory, Western and Indian Political Thought, Indian Politics and International Relations. The faculty members are engaged in research in political economy, politics of language, peace studies, North-Eastern Studies, foreign policy, Naxalism, postmodernism, postcolonialism. The department also offers courses in Political Sociology, Indian Constitution, Public Administration and Comparative Politics.

The department is committed to achieve academic rigour. The syllabi have been framed in tune with the latest development in the discipline. The faculty members often employ unconventional methods of teaching and assessment such as film screenings, debates, power point presentations, dissertation, graduate seminar, students' presentations, viva, term papers, projects and so on. The department strives to create an academic environment in which students will be able to think independently, analytically and critically on socio-political issues rather than memorizing answers.

The department received an infrastructural grant of 40 lakhs rupees from the Honourable Vice-Chancellor for facility upgradation. Two classrooms in the department are audio-visual lecture theatres, equipped with a projector, a screen, a microphone, speakers etc. This facilitates the faculty members in employing audio-visual media in teaching and assessment. One of the audio –visual class rooms is developed into an air conditioned seminar hall.

## **Journal Publication/ Editor**

**Basu Pradip**, acted as Founder-Editor, a refereed journal, Journal of Humanities & Social Sciences, no.9 [2012] to no 12 [2015], ISSN 0973-8738

**Haokip, Thongkholal**, Editor, Journal of North East India Studies (Since 2011) ISSN 2278-1455



## Evaluative Report of the Department: Sociology

1. **Name of the Department** : SOCIOLOGY
2. **Year of establishment** : 1989
3. **Is the Department part of a School/Faculty of the university?**
  - Faculty of Humanities and Social Sciences
4. **Names of programmes offered (UG, PG, MPhil, PhD, Integrated Masters; Integrated PhD, DSc, DLitt, etc.) :**
  - BA (Hons) Sociology
  - MA (Sociology)
  - PhD
5. **Interdisciplinary programmes and departments involved :**
  - The department offers GenEd programme in the first three semesters of undergraduate and the courses in this programme are designed not only to cater to students of social sciences and humanities but also natural sciences and mathematics. Also students from other humanities and social sciences departments can come for major optional courses to our department at the PG level.
6. **Courses in collaboration with other universities, industries, foreign institutions, etc. :**
  - The university has MoUs with a few foreign universities and the department takes active participation in conceptualising the academic contents. Special mention here can be made of SOAS and the celebration of 100 years of SOAS and 200 years of Presidency is being commemorated with joint seminars where our departmental faculties function as convenors.
7. **Details of programmes discontinued, if any, with reasons** : None as such
8. **Examination System: Annual/Semester/Trimester/Choice Based Credit System :**
  - Semester system, Choice Based Credit System
9. **Participation of the department in the courses offered by other departments:**
  - UG students with Sociology (major) go to other departments for their GenEd courses and again this is not just limited to humanities and social sciences but they also take courses from natural sciences and mathematics. Our PG students can take optional courses from other humanities and social sciences departments.
10. **Number of teaching posts sanctioned, filled and actual (Professors/Associate Professors/Asst. Professors/others)**

	Sanctioned	Filled	Actual (including CAS & MPS)
Professor	01	0	
Associate Professors	0	0	1(CAS)
Asst. Professors	13	09	08
Others			

**11. Faculty profile with name, qualification, designation, area of specialization, experience and research under guidance**

Name	Qualification	Designation	Specialization	No. of Years of Experience	No. of PhD/ MPhil students guided for the last 4 years
Suhrita Saha	MA, MPhil, PhD	Associate Prof	Globalisation and Indian society	16 years	1 PhD guidance ongoing
Hia Sen	MA, MPhil, PhD	Assistant Prof	Sociology of Childhood, Theatre	3 years	1 PhD guidance ongoing
Souvik Mondal	MA, MPhil	Assistant Prof	Sociology of Media. Popular Culture. Death	3 years	
Nabamita Das	MA, PhD	Assistant Prof	Gender and Sexuality, Sociology of intimacy	2.5 years	
Upal Chakrabarti	MA, PhD	Assistant Prof	Agrarian Studies, History of Political Economy, History of Science	3 years	1 PhD guidance ongoing
Sukanya Sarbadhikary	MA, PhD	Assistant Prof	Anthropology of Religion	3 years	2 PhD guidance ongoing
Suvrata Chowdhary	MA, M.Phil	Assistant Prof	Sociology of Economy	2.5 years	
Antara Ray	MA	Assistant Professor	Caste and Dalit Studies	6.5 years	
Sumita Saha	MA, PhD	Assistant Professor	Sociology of Ageing, Religion and Medical Sociology	14 yrs	3 PhD Ongoing. (1 in host institution and 2 in other universities)

**12. List of senior Visiting Fellows, adjunct faculty, emeritus professors :**

- Prof Prasanta Ray, Emeritus Professor

**13. Percentage of classes taken by temporary faculty – programme-wise information :**

- UG : All classes are taken by permanent faculty.
- PG : 12.5 percent classes are taken by temporary faculty in lieu of sanctioned leave of permanent faculty.

**14. Programme-wise Student Teacher Ratio:**

- Both in UG and PG the ratio is 14:1

**15. Number of academic support staff (technical) and administrative staff: sanctioned, filled and actual: 1 office staff, 1 group D staff**

**16. Research thrust areas as recognized by major funding agencies : None as such**

**17. Number of faculty with ongoing projects from a) national b) international funding agencies and c) Total grants received. Give the names of the funding agencies, project title and grants received project-wise.**

- Funding received by Dr. Hia Sen from the Indian Council of Social Science Research. Project Title: “Performing Childhood, Performing children: Childhood and Indian Theatre”.

Grant in aid Received: Rs.2,80,000/-

Total Grant-in-Aid sanctioned: Rs.7,00,000/-

Duration of the project: 2 years from 1.12.2014-ongoing

**18. Inter-institutional collaborative projects and associated grants received :** None

- a) National collaboration    b) International collaboration

**19. Departmental projects funded by DST-FIST; UGC-SAP/CAS, DPE; DBT, ICSSR, AICTE, etc.; total grants received. NA**

**20. Research facility / centre with :** NA

- state recognition
- national recognition
- international recognition

**21. Special research laboratories sponsored by / created by industry or corporate bodies :** NA

**22. Publications:** (List in annexure)

- Number of papers published in peer reviewed journals (national / international) : 21
- Monographs :2
- Edited Books :
- Books with ISBN with details of publishers :2
- Number listed in International Database (For e.g. Web of Science, Scopus, Humanities International Complete, Dare Database - International Social Sciences Directory, EBSCO host, etc.)
- Citation Index – range / average
- SNIP
- SJR
- Impact Factor – range / average
- h-index

**23. Details of patents and income generated:** NA

**24. Areas of consultancy and income generated :** NA

**25. Faculty selected nationally / internationally to visit other laboratories / institutions /industries in India and abroad :** None

**26. Faculty serving in**

- a) National committees b) International committees c) Editorial Boards d) any other (please specify) :
- **Dr Suhrita Saha:** 1. Member, Institutional Ethics Committee for Human Research, Medical College, Kolkata. 2. Advisory Committee Member, Women Studies centre, Vidyasagar University, West Bengal. 3. Member, PG Board of Studies, Dept of Sociology, Vidyasagar University, West Bengal. 4. Life Member, Indian Sociological Society, New Delhi.

## Presidency University

- **ANTARA RAY:**

1. Life-Member of Indian Sociological Society, Delhi.
2. Member of West Bengal Sociological Association.
3. Executive Member, MAS.S, Kolkata, A Centre of Associates for Sociological Studies, Kolkata.
4. Member of PG Board of Studies, Dept. of Sociology, University of Gaur BAnga.
5. Member of UG Board of Studies, Dept. of Sociology, West Bengal State University.

- **Sukanya Sarbadhikary:** Editorial Board Membe 1) Presidency Historical Review (Peer-reviewed journal published by the Department of History, Presidency University) 2) Sanlap: A Journal of Literary and Cultural Inquiry (Peer-reviewed online journal)

- **Upal Chakrabarti:** Editorial Board Member 1) Sanlap: A Journal of Literary and Cultural Inquiry (Peer-reviewed online journal)

- **Souvik Mondal:**

1. Life-Member of Indian Sociological Society
2. Member of West Bengal Sociological Association.

- **Sumita Saha:**

1. Life Member of Indian Sociological Society
2. Member of West Bengal Sociological Association
3. Member of Newsletter Committee of the Centre for Religion and Society, Dept. of Sociology, Jadavpur University.

### 27. Faculty recharging strategies (UGC, ASC, Refresher / orientation programmes, workshops, training programmes and similar programmes). :

Our faculty participates in such courses. The university does not have an ASC.:

- Dr Sukanya Sarbadhikary attended Orientation Course organized by ASC Jadavpur University in December 2015.
- Dr Upal Chakrabarti attended Orientation Course organized by ASC Jadavpur University in December 2015.

### 28. Student projects

- percentage of students who have done in-house projects including inter-departmental projects, On an average, 30 percent students in each batch do in-house and inter dept projects
- percentage of students doing projects in collaboration with other universities / industry / institute :10 percent work as interns or volunteers in industry or with NGOs

### 29. Awards / recognitions received at the national and international level by

- Faculty
- Doctoral / post doctoral fellows: Aratrika Bhattacharya, PhD student chosen for SOAS PRESIDENCY Exchange programme.
- Students

**30. Seminars/ Conferences/Workshops organized and the source of funding (national /international) with details of outstanding participants, if any. (provide List in annexure)**

- Celebration of National Science Day, July 26, 2013 (National Seminar), Grant Received: Rs. 100, 000, Source: West Bengal State Council of Science and Technology
- Conference on ‘Sociological Perspectives: Old and New’ (International Conference to celebrate 25 years of the department), Grant Received: Rs. 500,000, Sources: Indian Council of Social Science Research (Rs. 300,000), and Department of Higher Education, Government of West Bengal (Rs. 200,000) December 22-23 2014.

**31. Code of ethics for research followed by the departments :**

- A strict code of ethics is followed by the department. An awareness of a code of ethics is inbuilt into our curriculum, in which the course on Research Methods in the 4th semester of undergraduate students has a component on research ethics. The various theoretical and practical questions related to ethical research practices are also addressed in all of the postgraduate programmes. The PhD programme has a course on research methods in which the issues of research ethics are meticulously addressed in the modules on Fieldwork, Ethnography, Interview, Historical Methods etc.
- The students of the department are instructed about ethical research practices, particularly the citation of sources when writing a paper, following a protocol of obtaining written permission when conducting fieldwork or surveys at institutions or with individuals, stating their academic intent. The department follows rigorous methods to prevent plagiarism. From the undergraduate level, the department encourages students to write term papers and do fieldwork. Presentations of fieldwork, and term papers are discussed minutely in class for the undergraduate, postgraduate and PhD students in which discussions about ethical issues are held.

**32. Student profile programme-wise:**

Year	Name of the programme	Applications received	Selected		Pass percentage	
			(results from previous years)		Male	Female
			Male	Female	Male	Female
2015	UG	489	6	20	100%	100%
	PG	165	2	20	100%	100%
2014	UG	801	4	22	100%	100%
	PG	150	2	20	100%	100%
		28		7		
2013	UG	738	4	20	100%	100%
	PG	108	3	21	100%	100%

**33. Diversity of students**

Name of the programme (refer to question no. 4)	% of students from the same university	% of students from other universities within the State	% of students from universities outside the State	% of students from other countries
MA	60	40		

## Presidency University

### 34. How many students have cleared Civil Services and Defense Services examinations, NET, SET, GATE and other competitive examinations? Give details category-wise.

- Per year on an average 2 to 3 students get NET and JRF.

### 35. Student progression

Student progression	Percentage against enrolled
UG to PG	60
PG to MPhil	NA
PG to PhD	71
PhD to Post-Doctoral	NA
Employed	Employed in school, Colleges and administrative services
• Campus selection	
• Other than campus recruitment	
Entrepreneurs	

### 36. Diversity of staff

Percentage of faculty who are graduates : Highest degree	
of the same university	0
from other universities within the State	33%
from universities from other States from	22%
universities outside the country	45%

### 37. Number of faculty who were awarded MPhil, PhD, DSc and DLitt during the assessment period : None

### 38. Present details of departmental infrastructural facilities with regard to

- Library : 1 Seminar Library
- Internet facilities for staff and students : wi fi available to students and teachers
- Total number of class rooms : 03
- Class rooms with ICT facility: 01
- Students' laboratories : NA
- Research laboratories: NA

### 39. List of doctoral, post-doctoral students and Research Associates

- from the host institution/university : Doctoral students: 07 (ongoing) Utsaleena Das, Aparajita Chakraborty, Ankita Chakraborty, Trishita Pal, Madhurima Ghosh, Aratrika Bhattacharya, Prama Bandopadhyay.
- from other institutions/universities :
  1. Debapriya Shorkhel (Jadavpur University)
  2. Utkalika Saha (Burdwan University)

### 40. Number of post graduate students getting financial assistance from the university: URF Scholar

**41. Was any need assessment exercise undertaken before the development of new programme(s)? If so, highlight the methodology :**

- Presidency was elevated in status from a college to a university and so was our department. In 2012 we made a complete overhaul of course and teaching-learning techniques. New courses were developed both at UG and PG level. A two-day long workshop was organised in February 2013 with subject experts from Delhi School of Economics, Jawaharlal University, Jadavpur University. The aim was to make the syllabus state-of-art keeping old theoretical paradigms as well as adding newer epistemological concerns. Also we designed the syllabus trying to keep a fine balance between theory and praxis/application. PhD course work syllabus was also outlined after having exhaustive Board of Studies and Doctoral Committee meetings. These were then duly ratified by the higher authorities.

**42. Does the department obtain feedback from**

- a. faculty on curriculum as well as teaching-learning-evaluation? If yes, how does the department utilize the feedback?
  - There is a confidential centralised system of student feedback and evaluation on curriculum and teaching, learning and this is monitored impersonally through external agency.
- b. Students on staff, curriculum and teaching-learning-evaluation and how does the department utilize the feedback?
  - Feedback reports are discussed and evaluated in meetings of departmental heads chaired by the Vice-Chancellor. The report is then carried Back to the department by the heads for further course of action and improvement.
- c. alumni and employers on the programmes offered and how does the department utilize the feedback? NA

**43. List the distinguished alumni of the department (maximum 10) :**

Srirupa Prasad, Anindita Chakraborty, Debjani Chakraborty, Atreyee Sen, Saran Ghatak, Manpreet Kaur, Niharika Banerjee, Dalia Chakraborty, Ratula Kundu

**44. Give details of student enrichment programmes (special lectures / workshops / seminar) involving external experts. (provide List in annexure)**

- The department actively conducts lectures, seminars and talks throughout the year which aims to enrich students beyond classroom lectures and existing faculty exposure.

**45. List the teaching methods adopted by the faculty for different programmes:**

- The courses for the undergraduate and postgraduate programmes were carefully designed to allow diverse teaching methods - which are practiced in some of the best academic institutions nationally and internationally - to be adopted.
- All courses are taught in a way that the teaching is discussion centric for certain modules, so students learn to engage academically with the issues that are discussed in class.
- Students are frequently shown films or introduced to texts from other disciplines, for certain sections of the curriculum. The department also encourages teaching by doing research and from the fifth semester the students are assigned a supervisor and are encouraged to do fieldwork and write papers, which become the foundation for teaching the courses on research methods.
- For the postgraduate and PhD programmes, all the courses are of a seminar style which require students to regularly choose texts from the curriculum or introduce new texts and present them to the class every

## Presidency University

week along with the stipulated lectures. This kind of participatory classroom helps groom the students in both public speaking, as well as creating a cohort of students who can push themselves beyond one-sided classroom instruction. Sessionals sometimes teach students how to communicate and do sociological research through making documentary films. Book reading groups and tutorials are offered to guide students to engage rigorously with texts.

### **46. How does the department ensure that programme objectives are constantly met and learning outcomes are monitored?**

- The department has a faculty student council with members of the faculty and representative student members from all programmes to discuss the progress of every course each month. The faculty meets at the beginning and end of every semester to discuss programme objectives for the semester.
- A mid-term presentation or written test or term paper helps faculty ascertain the learning outcome during the semester.

### **47. Highlight the participation of students and faculty in extension activities.**

(a) One of our faculty, Dr. Sumita Saha, is holding the post of NSS (Unit-1 of Presidency University) programme Officer. Many of our UG and PG students are NSS members. She has organised two major special camps for 7 days each in Belehata slum area (Basti No. 44) with the students as a part of outreach programme. Details of the camp are as follows.

i) Organized Special Camp on 'Health Awareness' from 9th.-16th. December, 2014. Many of our departmental students participated in organizing the programme. Senior Doctors from PG Hospital, Calcutta Medical College participated in the Awareness Camp. others were psychologists from Raja Bazaar Science College, academicians from Dept. of Biological Sciences, Presidency University.

ii) Organized Special Camp on 'Geriatric Care' from 6th-12th June 2015. Many students participated in organizing this special camp. Help Age India conducted a session in this programme. others joined from Alipore Court (Lawyers), Financial advisors from LIC (Development officer), Calcutta Medical College (Doctors) and others.

iii) Organised Special Camp on 'Physical and Mental Disability and Rehabilitation', from 13-19th. Dec, 2015. Experts from Fortis Hospital, Amri (Mukundapur) joined to enrich the programme.

iv) Organised 3-day programme on Yoga from 19th. -21st. June, 2015. Many of our students took active part in organizing the programme.

(b) Dr. Sumita Saha is also in charge of another outreach programme undertaken by our department. She is in charge of the Bratachari Course in association with The Bengal Bratachari Society, Kolkata. Some of our students have undertaken this course. Some of them also write articles for the Bengal Bratachari Journal as a part of their beyond syllabus scholarly contribution.

(c) Dr Suhrita Saha worked in collaboration with NGO Calcutta Samaritans which works for the cause of homeless, unorganised labour in Kolkata.

(d) Dr Suhrita Saha worked with Arts Forward for a Create to Inspire Microsoft project on E waste awareness and management. Students of the department actively took part in this.

### **48. Give details of "beyond syllabus scholarly activities" of the department.**

- All the seminars, talks that the department conducts consistently throughout the year are parts of its beyond curriculum activities. Sociology students are also actively engaged in fieldwork at both UG and PG level dissertation writing. Also the students take active participation in the university outreach and extension activities.

### **49. State whether the programme/ department is accredited/ graded by other agencies? If yes, give details. No**



**50. Briefly highlight the contributions of the department in generating new knowledge, basic or applied.**

- The way our curriculum is designed makes it different from the way Sociology is taught in other universities. The course has room for sessionals in all semesters which gives students a hand in individuality development in academic research. Also the curriculum model and continuous evaluation system is a disablator to the rote and learn process.

**51. Detail five major Strengths, Weaknesses, Opportunities and Challenges (SWOC) of the department.**

● **Strengths:**

1. The department has faculty of varied specialization who are actively engaged with counterparts across the country and abroad. This allows the students more exposure.
2. The department faculty student ratio is very good and this gives opportunity to the students to get mentored very intensively. Our students are our greatest strength.
3. The faculty average age is 35 which could be seen as symbolic of zest and enthusiasm.
4. The department focuses on field study and first hand research and therefore tries to have a Balance between theory and practice.
5. The department organises tours every year where teachers, students and non teaching staff participate actively. The department believes that in order to become a successful academic platform we first have to connect and bond organically and such tours are an initiative towards that goal.

● **Weaknesses:**

1. It is aptly said that one's strength is weakness of sort. We being a department of mainly fresh recruits are sometimes inexperienced with processual work.
2. Also Sociology Department is the youngest in the history of Presidency and therefore we need a lot of learning.
3. Our departmental library needs more books.
4. We are not always able to offer many optional courses due to paucity of faculty.
5. The gestation period between a degree and job for a sociology student is too long and sometimes we are unable to adequately keep their spirits up.

● **Opportunities:**

1. We are at present a department with nine faculty members and though we are short of teachers, considering the state ratio, this is a very good figure and we use it very much to our advantage. All our faculty members are engaged in research.
2. Since most of our faculty members have graduated from universities outside Bengal, there is scope for national and international academic exchange. Many of our faculty are active participants in Indian Sociological Association network.

● **Challenges:**

1. Currently there is a dearth of space which however would be sorted with extension work.
2. There are minor infrastructural limitations.

**52. Future plans of the department :**

- With full recruitment process completed the department will be eligible to apply for the UGC SAP.
- We also plan to open a centre for research affiliated to the department.
- The department will have its branch in the Himalayan Centre in Kurseong, Presidency University third campus.

**ANNEXURES**

**1. List of Research Projects in Last four Years**

Year of Initiation	Year of Completion	Funding agency	PI	Title	Fund Sanctioned	Fund Received	Completed/ongoing
2014	2016	ICSSR, Ministry of HRD	Hia Sen	Performing Childhood, Performing Children: Childhood and Indian Theatre	Rs. 7,00,000/-	Rs. 2,80,000/-	ongoing

**2. List of Seminars and Conferences Organized in last three years**

Sl No.	date/ Month	Topic	Source of Funding	Status (Local/State/national level) (student enrichment programme)
1	5 /12/2012	“The Country –Town Nexus :India’s Growth Story & Its Political Implications”. By Dipankar Gupta.	Dept. of Sociology.	National
2	04/01/2013	“Gender Issues Across The Globe” By Dr. Debjani Chakrabarti.	Dept. of Sociology.	International
3	5/04/2013	“Making And Going Fieldwork” By Urmila Mohan.	Dept. of Sociology.	National
4	8/3/2013	A Talk By Lina Fruzzetti Akos Ostor.	Dept. of Sociology.	International
5	19/04/2013	“Bourdieu In India”. By Gennot Saalmans.	Dept. of Sociology.	International
6	3/05/2013	“ Revolution In Red Corridor”. By Suvojit Bagchi	Dept. of Sociology.	National
7	05/05/2013	“Gender & Law ;Reflections On Responses To The Rape Delhi.”By Dr Rukmini Sen.	Dept. of Sociology.	National
8	26/07/2013	“Food Security & Genetically Modified Crops.” By Prof. P. Sainath, Vandana Shiva & Prof. Prasanta Ray.	West Bengal State Council of Science & Technology	National
9	29/08/2013	“Presidency University: Future of Its Present By Prof. Sugata Bose.	Dept. of Sociology.	International
10	04/11/2013	“The banality of Empire: The Chaos of Conquest & Search For Colonial Order” by Dr. Jon Wilson.	Dept. of Sociology.	International
11	9th , 11th, 17th, 19th dec 2013	“An Introduction To Texts, Contexts And Concepts”. By Bodhisattva Kar.	Dept. of Sociology.	International
12	13/12/2013	“Rabindranath Er Dampotyia Jibon And Prem”. By Ranjan Bandopadhyay.	Dept. of Sociology.	National

Sl No.	date/ Month	Topic	Source of Funding	Status (Local/State/national level) (student enrichment programme)
13	15/01/2014	“The Emancipatory Paradox of Ambedkar’s Thought”. By Dr. Souymabrata Choudhury.	Dept. of Sociology.	National
14	17/01/2014	“Locating ‘North –East ‘ The When & Where of It “ By Anandaroop Sen.	Dept. of Sociology.	National
15	12/02/2014	‘The Sexual Lives Of Border Landers; Hijras on The Bangladesh – India Border.’ By Dr. Delwar Hussain	Dept. of Sociology.	International
16	19/03/2014	“The Situation Of Elderly In Bangladesh” By Dr. A. S. M. Atiqur Rahaman.	Dept. of Sociology.	National
17	21/03/2014	“Intersectionality In The Era of Transnationalism”. By Dr. Bandana Purkayastha.	Dept. of Sociology.	International
18	25/04/2014	“Technology, Body, & Law; The Antinomies of Right & Govt.” By Dr. Itty Abraham.	Dept. of Sociology.	National
19	18th, 21st-23rs July 2014	“Post Colonial Thinking & Critique of Modern Social Science” By Prof. Sudipta Kaviraj.	Dept. of Sociology.	International
20	19/12/2014	“Approaches of The Study of The Sciences ‘ Past”. By Prof. Simon Schaffer.	West Bengal State Council of Science & Technology.	International
21	22nd & 23rd, 2014.	Sociological Perspectives : Old And New By Several Speakers From Various Indian Universities.	Department of Higher Education, Government of West Bengal.	National
22	02/02/2015	“The Current Landscape Of Population Politics”. By Prof. Besty Hartman.	Dept. of Sociology.	International
23	24/03/2015	“Workshop” By Arts Forward.	Dept. of Sociology.	National
24	29/06/2015	“Why Study History (Of Science).” By Dr. Projit Bihari Mukherjee.	Dept. of Sociology.	International
25	15/07/2015	“Hysteria Past & Present : The Translocal History of A Medical Idea”. By Sarah Pinto.	Dept. of Sociology.	International
26	24/07/2015	“Alimentary Anxeities ; Affect In Food & Hunger.” By Dr. Srirupa Prasad .	Dept. of Sociology.	International
27	04/08/2015	“Religion In Motion ;Shaiva Networks In Colonial Rarh” By Brian Hatcher.	Dept. of Sociology.	International
28	01/09/2015	“Shiva & His Disguises; The Life Of A Modern Tradition” By Aniket Dey.	Dept. of Sociology.	International
29	2nd, 3rd, 5th, 6th November 2015.	“Theory Matters”. By Dr. Prathama Banerjee.	West Bengal State Council of Science & Technology.	National

3. Seminar workshops attended by teachers of the Department in last three years (chronologically)

Sl. No	Name of the Teacher	Title of Seminar	Date	Organized by	Status (National/International)	Role as Resource person /Invited Speaker
1.	Sukanya Sarbadhikary	‘Veneration Nation’	June, 2012	Dept. of Anthropology, University College London, University of London.	International	Invited Speaker, Paper title: ‘Ingestion as Affect and Empathy among Sahajiya-Vaishnavas of Bengal’,
2.	Sukanya Sarbadhikary	Workshop on Re-designing Curriculum for UG and PG Sociology programme at Presidency University	February, 2013	Department of Sociology, Presidency University	National	Attended
3.	Sukanya Sarbadhikary	National Multidisciplinary Conference on ‘Insecurities’	March 4, 2013	Dept. of Sociology, Jadavpur University	National	Attended
4.	Sukanya Sarbadhikary	‘Religion, Migration, Mutation’	3-6 September, 2013.	European Association for the Study of Religion, Annual Conference, Liverpool Hope University, Liverpool, UK.	International	Invited Speaker, Paper title: ‘Ingestion as Affect: Empathy and Community among sahajiya-Vaishnavas of Bengal’
5.	Sukanya Sabadhikary	Workshop on ‘Theorizing the Social: Locations and Hierarchies’	22-23 January, 2014	Centre for Studies in Social Systems, Jawaharlal Nehru University, New Delhi	National	Invited Speaker, Paper Title: ‘For the Skin is faster than the Word: Towards an Ethnography of Affect’
6.	Sukanya Sarbadhikary	‘The Bodily and Material Cultures of Religious Subjectivation’	June 17-18, 2014	Department of Anthropology, University College London, University of London	International	Invited Speaker, Paper Title: ‘Sounds of the Drum, Sounds of the Body: Emotive Overlaps in External and Internal Sensoria’
7.	Sukanya Sarbadhikary	‘Anjan Ghosh Memorial Workshop’	October 18, 2014	Centre for Studies in Social Sciences, Calcutta	National	Invited Speaker, Paper Title: ‘The Body-As-Place: Sahajiya Vaishnavas of Navadvip’

Sl. No	Name of the Teacher	Title of Seminar	Date	Organized by	Status (National/ International)	Role as Resource person /Invited Speaker
8.	Sukanya Sarba dhikary	Workshop on 'Qualitative Research Methods in Social Sciences'	17-21 November, 2014	Institute of Development Studies, Kolkata	National	Invited Speaker, Paper Title: 'Ethnography of Complex Societies'
9.	Sukanya Sarba dhikary	Workshop on 'Bengali Vaishnavism in the Modern Period'	28-29 March, 2015	The Oxford Centre for Hindu Studies, University of Oxford, UK	International	Invited Speaker, Paper Title: 'The Sahajiya Body: Methodological Reflections on a Sensitive Ethnography'
10.	Upal Chakrabarti	Workshop on Re-designing Curriculum for UG and PG Sociology programme at Presidency University	February, 2013	Department of Sociology, Presidency University	National	Attended
11.	Upal Chakrabarti	National Multidisciplinary Conference on 'Insecurities'	March 4, 2013	Department of Sociology, Jadavpur University	National	Invited Discussant
12.	Upal Chakrabarti	N/A	April 9, 2013	Centre for Studies in Social Sciences, Calcutta	N/A	Invited Speaker, Paper Title: 'The "political" in political economy: British India, rent, and the agrarian in the early nineteenth century'
13.	Upal Chakrabarti	'Ideologies and Institutions: A conference to celebrate the career and works of Professor Peter Robb'	September 19-20, 2013	School of Oriental and African Studies, University of London	International	Invited Speaker, Paper Title: 'A genealogy of the local: Methodology in political economy in early nineteenth century Britain'
14.	Upal Chakrabarti	Workshop on 'Theorizing the Social: Locations and Hierarchies'	22-23 January, 2014	Centre for Studies in Social Systems, Jawaharlal Nehru University, New Delhi	National	Invited Speaker, Paper Title: 'The work of the "local": A critique of the geographical analytic in the social sciences'
15.	Upal Chakrabarti	'Anjan Ghosh Memorial Workshop'	October 18, 2014	Centre for Studies in Social Sciences, Calcutta	National	Invited Speaker, Paper Title: 'Landed Property in early nineteenth century British India'

Sl. No	Name of the Teacher	Title of Seminar	Date	Organized by	Status (National/ International)	Role as Resource person /Invited Speaker
16.	Suvrata Chowdhary	Contested Cities:Voices from the margins	January 17-18,2012	Department of Sociology, University of Pune	National	Invited speaker, Paper Title: Local weekly markets of Delhi: What is informal about it.
17.	Suvrata Chowdhary	Structural Transformation in South Asia	May 20-22,2015	SASNET, Lund University, Sweden	International	Invited Speaker, Paper Title:Local Weekly Markets of Delhi: Spaces in and out ensuring sustenance.
18	Antara Ray	Discourse on Social Exclusion from Interdisciplinary perspective	Jan 30-31, 2012	Centre for the Study of Social Exclusion & Inclusive Policy (csseip), University of Hyderabad	National	Invited Speaker Paper Title: Conceptualization of Dalit and the induced exclusion.
19.	Antara Ray	State of Research in Human Rights: Prospective and Retrospective	Feb 1-2, 2012	Centre for Human Rights, University of Hyderabad	National	Paper Presented. Paper Title: Politicization, Mobilization and abberation of the rights of Dalits.
20.	Antara Ray	Human rights: evolution, implementation and evaluation	Dec. 14-16, 2012	Rajasthan sociological association and Department of Sociology, B.S.R. government arts college, alwar	International	Invited Speaker. Paper Title: Human Rights Ideals and caste affected practices in contemporary India.
21	Antara Ray	Human rights: evolution, implementation and evaluation	Dec. 14-16, 2012	Rajasthan sociological association and Department of Sociology, B.S.R. government arts college, alwar	International	Chaired the Session "Human Rights and Children".
22.	Antara Ray	Gender	March, 4, 2014	Indian Statistical Institute, Kolkata.	State	Invited Speaker. Paper Title: Caste and Gender.
23.	Antara Ray	B.R. Ambedkar	Aug., 16, 2014	Bongaon College, 24 Parganas North	Local	Invited Speaker Paper Title: Ambedkar's understanding of caste and untouchability.

Sl. No	Name of the Teacher	Title of Seminar	Date	Organized by	Status (National/ International)	Role as Resource person /Invited Speaker
24.	Hia Sen	Looking Beyond the State: Changing forms of Inclusion and Exclusion in India	December 23-24, 2012	Japfü Christian College, Kohima and National Museum of Ethnology, Japan, Japfü Christian College, Kohi MA	International	Invited: Discussant for the session on 'Territoriality'
25.	Hia Sen	Curriculum Workshop for redesigning UG and PG Curricula at the Department of Sociology, Presidency University, Kolkata	January 10-11, 2013	Department of Sociology, Presidency University, Kolkata	National	Attended
26.	Hia Sen	German Sociological Association, Section 'Sociology of Childhood': Kinder als Akteure- Agency und Kindheit	September 2013	University of Hildesheim, Germany	International	Invited Speaker: 'Do the Mollycoddled Act? The Concept of Agency and Experiences of Empirical Research with Children in Kolkata'
27.	Hia Sen	Workshop on Theorising the Social	January 2014	Centre for the Study of Social Systems, Jawaharlal Nehru University, New Delhi	National	Invited Speaker: "Chasing Pareto"
28	Nabamita Das	NGender Seminar Series	April 2012	University of Sussex, UK	International	Invited speaker. Paper title: Auto-ethnography as an epistemological approach in understanding intimate relations
29	Nabamita Das	Gender and Sexuality Annual Postgraduate Colloquium	May 2012	University of Birmingham, UK	International	Invited speaker. Paper title: Mundane Heterosexualities: The context of urban bengal
30	Nabamita Das	Global Education Dialogue: Women, Leadership and the Looming Crisis in Higher Education	March 2014	British Council and the Department of Education, Colombo, Srilanka	International	Invited attendee
31	Nabamita Das	Inaugural European Conference on Cultural Studies	July 2014	The International Academic Forum, Brighton, UK	International	Invited speaker. Paper title: Adda and Cultural Belongingness in Bengali Community of India

Sl. No	Name of the Teacher	Title of Seminar	Date	Organized by	Status (National/ International)	Role as Resource person /Invited Speaker
32	Nabamita Das	5th Global Conference on Gender and Love	September' 2015	Interdisciplinary. Net, University of Oxford, UK	International	Invited speaker. Paper title: Meaning Making of Bengali Hindu Marital Symbols: Narratives of UrBAn Middle Class Women in Kolkata Bengal.
33	Nabamita Das	Gender and Feminist Theory Research Group	October' 2015	University of Birmingham, UK	International	Invited speaker. Paper title: Friendship and Femininities: Narratives of Bengali Bhadramahila in UrBAn Kolkata
34	Sumita Saha	Religion and Globalization: A Changing Perspective"	1st. December, 2012	Centre for the Study of Religion and Society, Jadavpur university in collaboration with University of Gothenburg, Sweden	International	Invited Speaker: Janism and Depression: A Case Study in South Kolkata.
35	Sumita Saha	Human Values and Social Change	March, 2012	Radha Krishnan Study Centre, Rabindra Bharati University, Kolkata	National	Panelist to Speak on Human Values and Social Change.
36	Sumita Saha	Indian Sociology	March -April, 2012	Gaur Banga University, Sociology Dept.	State	Invited Lecture on Indian Sociological Thinkers
37	Sumita Saha	Elder Dignity and Abuse	March, 2014	Centre for Gerontological Studies, Thiruvananthapuram, India	International (Funded by UNFPA and The Govt. of Kerala)	Invited Speaker: Elderly Abuse and Geriatric Depression: A Comparative Study of Men and Womenfolk of the Marwari Community
38	Sumita Saha	Lecture Series on Social Problems	May, 2014	Indian Statistical Institute	National	Invited Speaker: Ageing as a Social Problem.
39	Sumita Saha	Sociology of Leisure	July, 2014	International Sociological Conference (World Congress)	International (Held in Yokohoma, Japan)	Invited Speaker: Religion as a Form of Leisure: Alien to the Male Folk.



Sl. No	Name of the Teacher	Title of Seminar	Date	Organized by	Status (National/ International)	Role as Resource person /Invited Speaker
40	Sumita Saha	Seven days Interdisciplinary Research Methodology Workshop on Politics of Gender: Family Community and State	3-10 of October, 2015.	Lady Brabourne College, Sachetana and School of Women Studies, Jadavpur University	National	Participant in the Workshop.
41	Suhrita Saha	Seminar on Untouchability	17 September 2012	Don Bosco School	State	Invited Speaker: Untouchability Revisited
42	Suhrita Saha	Celebrating 40 years of CSSS, JNU	18-19 Dec 2012	JNU, New Delhi	National	Attended session on Curriculum Designing
43	Suhrita Saha	Talk	18 June 2013	Shiv Nadar University, New Delhi	National	Invited Speaker: Mall Culture in Kolkata
44	Suhrita Saha.	Conference On Equal Opportunity	5th March 2014	Dept of Sociology, Kabi Sukanta Mahavidyalaya, Burdwan University	State	Invited Speaker Paper titled: Gender Issues in Bengal.
45	Suhrita Saha	International Sociological Congress	July 2014	Yokohama, Japan	International	5pm-10am :Gender Inequality Interrogated
46	Suhrita Saha	Workshop for Syllabus Revision	19th December 2014	Dept of sociology Vidyasagar University	State	Invited as resource person.
47	Suhrita Saha	International Conference on Education and Information Technology	October 2015	WCES 15(ICEIT'15), San Francisco USA	International	Paper titled: Education in India: Learning and Unlearning.

**2012**

**Journal Articles**

**Sarbadhikary, S.**, 2012, Hearing the Community and Nation: A History of Vaishnavism in Bengal as sung through traditions of kirtan music. *Jadavpur University Journal of Sociology*, v. 5, pp. 62-73.

**Chakrabarti, U.**, 2012, A Sociology of Loneliness? Ginzburg, Menocchio and 'popular culture' in early-modern Europe. *Jadavpur University Journal of Sociology*, v. 5, pp. 88-101.

**Saha, Sumita.**, 2012, Violence Against Women In India: Areas and Legislations; A Critical Overview. *International Review of Comparative Sociology*, v.3, No. 1, pp.13-28. ISSN:0975-1149.

**Saha, Sumita.**, 2012, Role of Religion in Later Life: A Case Study in Kolkata. *Indian Journal of Social Development*, v.12, no. 1, pp. 145-154. ISSN: 0972-3692.

**Saha, Sumita.**, 2012, Gender Socialization an investigation into Hindu Family in India: the Daughter's Personality Development in Crisis. v.12, no. 2, pp. 37-391. ISSN: 0972-3692.

**Book Chapters**

**Ray, Antara and Ramanuj Ganguly**, 2012, Human Rights Ideals and Caste – Affected Practices in Contemporary India. Alok Kumar Meena (ed.), *Human Rights: Evolution, Implementation and Evaluation*, New Delhi: Palm Leaf Publication, ISBN 819095391-5.

**Books**

**Saha, Suhrita**, 2012, *Globalisation and Hindu Nationalism : A Case Study of West Bengal (1991-2001)*, Kolkata: Readers service. ISBN: 978-81-87891-52-9

**Saha, Sumita & Sain, Ruby**, 2012, *Depression Among The Elderly*. Serials Publications, New Delhi. ISBN: 978-81-8387-550-9.

**2013**

**Journal Articles**

**Saha, Suhrita.**, 2013 , Globalisation and Mall culture in a Metropolis. *Jadavpur University Journal of Sociology*, No 6, pp 21-33.

**Saha, Suhrita.**, 2013, Benoy Kumar Sarkar (1887-1949): A Tryst with Destiny. *Sociological Bulletin*, vol.62, no.1, pp.4-22.

**Sarbadhikary, S.**, 2013, Discovering Gupta-Vrindavan: Finding Selves and Places in the Storied Landscape. *Contributions to Indian Sociology*, v. 47, no.1, pp. 113-140 (Impact Factor of the Journal: 0.917).

**Saha, Sumita.**, 2013, Vivekananda's Interpretation of Vedanta and its Philosophies The Essence of Oneness. *Indian Journal of Social Development*. v.8., no. 1-2. pp. 39-52. ISSN: 0973-3981.

**Saha, Sumita.**, 2013, Cultural Relativism v/s Ethnocentrism--Debate within Domain of Anthropological Theories. *Indian Journal of Social Development*. v. 13., no. 1. pp. 15-28. ISSN: 0972-3692.

**Saha, Sumita.**, 2013, How Can Education Inculcate Democratic Values among Young Children: A Critical Overview. *Economic Affairs*, v. 58, no. 3. pp. 317-323. ISSN: 0424--2513.

**Saha, Sumita.**, 2013, Religious Life and Belief System of the Santals – A Case Study in Solegeria Village. Man In India, v. 93, no. 2-3, pp. 313-333. ISSN: 0025-1569.

### Book Chapters

**Sen, H.**, 2013, Koloniale Soziale Arbeit: Die Thematisierung der Kindheit in Indien: In, Hans Gunther Homfeldt, Christiane Bähr; Christian Schröder, Wolfgang Schröder; Cornelia Schweppe (Ed): Weltatlas Sozialer Arbeit, Weinheim/München: BELTZ Juventa. ISBN: 9783-7799-2892-8.

### Books

**Sen, H.**, 2013, 'Time-Out' in the Land of Apu: Childhoods, Bildungsmoratorium and the Middle Classes of Urban West Bengal, Springer, Berlin; Vs Verlag Für Sozialwissenschaften, ISBN: 978-3-658-02222-8

### 2014

#### Journal Articles

**Ray, Antara.**, 2014, Re-thinking Dalit Women in Post-Colonial India. Social Trends (Refereed Journal of the Department of Sociology of North Bengal University), Vol.1, ISSN: 2348-6538.

Sen, H.,2014, From Rabindra Sangīt to Doraemon: Inheritance and Globalisation of Children's Leisure Culture in Kolkata. ASIEN,v. 130, p.24-41, ISSN : 0721-5231.

### 2015

#### Journal Articles

**Chakrabarti, U.**, 2015, Agrarian Localities: Political economy as local power in early-nineteenth century British India. Modern Asian Studies. Published Online Oct. 20, 2015, pp. 1-36 (Impact Factor of the Journal: 0.339).

**Ray, Antara and Ramanuj Ganguly**, 2015, Foregrounding differences and Diversity: Dalit youth of India. Social Trends (Refereed Journal of the Department of Sociology of North Bengal University), Vol. 2, No.1, ISSN 2348-6538.

### Book Chapters

**Sarbadhikary, S.**, 2015, Hearing the Transcendental Place: Sound, Spirituality and Sensuality in the musical practices of an Indian devotional order. Music and Transcendence (ed.) Ferdia Stone-Davis. (Ashgate), pp. 23-34 (ISBN: 9781472415950).

**Ray, Antara and Ramanuj Ganguly**, 2015, Changing Experience of Dalit Youth in Contemporary India. Manish K. Verma (ed.), Globalization and Environment: Discourses, Policies and Practices, Jaipur and New Delhi: Rawat Publications, ISBN 978-81-316-0709-1.

**Saha, Sumita & Saha, Utkalika.**, 2015, Pursuit of Body Contouring: A Choice or a Compulsion? Bandopadhyay, Aparna & Dasgupta, Krishna (ed.), the 'Other' Universe, Kolkata, Setu Prakashani and Women's Studies Centre, Lady Brabourne College, Kolkata, ISBN 98-93-80677-73-6.

### Books

**Sarbadhikary, S.**, 2015, The Place of Devotion: Siting and Experiencing Divinity in Bengal-Vaishnavism (University of California Press: Oakland, Series: South Asia Across the Disciplines) (ISBN:9780520287716)

**6. Synopsis of Publications**

<b>Publications</b>		<b>2012</b>	<b>2013</b>	<b>2014</b>	<b>2015</b>	<b>Total</b>
Paper (peer-reviewed)	National	6	7	2	3	18
	International		1		2	3
Books & Monographs	National	2				2
	International		1		1	2
Articles in magazine/ Newspaper						

**7. Names of Students with outstanding achievements and placements for higher studies (last four years):**

- Saumya Pandey, TISS
- Ananya Mukherjee, Sneha Bhattacharya, Abhishek Deka, JNU;
- Rohan Sengupta, Ambedkar University.

**10. A brief history of the Department**

The Department of Sociology, established in 1989, has plunged into world of the ‘social’, in an attempt to analyse and critique every bit of the world we inhabit. The faculty members of the department whose research interests are widely dispersed, ranging from Economic Sociology to Anthropology of Religion, to Intimacy, Caste and Religion, Globalisation, have been recruited from around the world and various institutions across India. In order to explore broader horizons, the department indulges in diversity in the curriculum, to allow young minds to explore themes outside the purview of the standard core courses. The department encourages innovation in pedagogic techniques as is manifested in the book-reading groups, presentations, fieldwork and dissertation writing. In order to venture into a wider genre and embrace multifarious cogitations, the department invites students and teachers from other institutions as well. Throughout the year the department tries to bring in guest speakers mainly through the faculty’s national and international collaboration. Of special mention is a two day national seminar organized by the departmental students on the theme ‘What India means’, in 2014. The 25 years, celebrations of the establishment of the Department of Sociology was marked by a two day conference, ‘Sociological perspectives :Old and New’, on 22-23 December 2014 and was funded by the ICSSR and West Bengal Higher Education Department.

## ANNEXURE

### Special Annexure on to the Self Study Report, Departmental Inputs, Faculty of Humanities and Social Sciences

The Chair of Kabiguru Rabindranath Tagore Distinguished Professor in the Humanities (Literary and Cultural Studies) was one of the five Distinguished Professorships instituted so that eminent scholars to offer cross-disciplinary courses and provide academic leadership.

The current appointee is Swapan K. Chakravorty D. Phil. (Oxon.), former Professor, Department of English, Jadavpur University, former Director General, National Library of India and former Secretary Curator, Victoria Memorial Hall. He had won Narsingh Das Award, University of Delhi in 2009, and was Contributory Editor of the The Collected Works of Thomas Middleton (Clarendon Press) which was awarded Modern Languages Association of America Prize for the Most Distinguished Scholarly Edition in 2009 and Elizabeth Dietz prize of Rice University in 2011.

The following is a summary of his academic contribution since joining (2 March 2015).

#### Publications

##### Books

- Patther des-kal (Kolkata: Ababhas; forthcoming in 2016)

##### (Edited)

- (with Abhijit Gupta), Founts of Knowledge: Book History in India (Delhi: Orient BlackSwan, 2016) ISBN 978 81 250 6053 6

##### Chapters in Books

- (with Abhijit Gupta) 'Introduction', Founts of Knowledge: Book History in India (Delhi: Orient Blackswan, 2016), pp. 1-14
- 'Educational Books in Bengal, 1830-1900: Some Problems Relating to British Imports', Founts of Knowledge: Book History in India (Delhi: Orient Blackswan, 2016), pp. 317-33
- 'Introduction', Graham Shaw, Book of Essays (title undecided; forthcoming in 2015)

##### Essays and Studies in Journals

- 'Being Staged: Unconcealment through Reading and Performance in Marlowe's Doctor Faustus and Bharata's Nāṭyaśāstra', Philosophy East & West, 66.1 (January 2016), pp. 40-59
- "'Bhramarpeyechhisabde": sabderbhram, kabirbhraman', Anustup, 50.1 (2015), pp. pp.. 61-70
- "'Pratibadheenandhakare": kabitarstabdhata, kabirpratirodh', Ekalerratakarabi, 46 (August 2014-September 2015), pp. 193-200

##### Academic Reviews

- 'The Imperfections of Unresearched Psychobiography', review of SudhirKakar, Young Tagore: The Makings of a Genius, Baha, 8.8 (May 2015), pp. 345-7
- Ansaruddin, Sokterkathamala, Go-rakhalkathakata, Baromas, 37 (December 2015), pp. 231-3

##### Academic Public Interview

- Sakkhatkar, Dnarabarjayga, 1.2 (Boisakh 1422 [April-May 2015]), pp. 35-56

## Presidency University

### Special Lectures, Conferences and Workshops

#### Special Lectures

- “‘Dui sabdaheenseshsagarermajhkhanne’”: Jibanananda, itihās o noishyabda”, Jibanananda Das Memorial Lecture, Bangla Akademi, AkademiSabhaghar, 20 February 2016
- ‘Ideas of History and Ideas of the Renaissance’, Department of English, University of Delhi, North Campus, 17 February 2016
- ‘Being Staged: Unconcealment through Reading and Performance in Marlowe’s Doctor Faustus and Bharata’s Nāṭyaśāstra’, Mandalika Banerjee Memorial Lecture, Lady Brabourne College, College Auditorium, Kolkata, 17 December 2015
- ‘Bhabishyatersmriti’, Commemorative Lecture on the occasion of the 125th anniversary of BharatiParishad, SobhabajaarRajbati, Kolkata, 29 November 2015
- ‘Literature, Ideology, Belief, and Knowledge’, Foundation Day Lecture, Harish- Chandra Research Institute, Allahabad, Institute Auditorium, 23 September 2015
- “‘Bhramarpeyechhisabde’”: sabderbhram, kabirbhraman’, Sunil Gangopadhyay Memorial Lecture, Krittibas, Rotary Sadan, Kolkata, 7 September 2015,
- ‘ “Pratibadheenandhakare’’: kabitarstabdhatta, kabirpratirodh’, BhaskarChakraborty Memorial Lecture , JibananandaSabhaghar, Bangla Akademi, Kolkata, 23 July 2015
- Convocation Address, IBS Business School Kolkata, Rotary Sadan, 29 May 2015
- ‘Religious Literature and Early Missionary Printing in India’, Department of Theology and Religious Studies, University Library, University of Glasgow, 19 May 2015

#### Conferences and Workshops

- Chair, Plenary Session addressed by Professor Nigel Leask, Annual International Conference, Centre for Studies in Romantic Literature, H L Roy Auditorium, Institute of Chemical Engineers, Kolkata 12 February 2016
- ‘Valedictory Address’, Second International Conference on the ‘Second Cities in the Circuits of Empire: Glasgow / Calcutta and the Legacy of the Scottish Enlightenment’, Project funded by the British Academy at the University of Glasgow, the Centre for Studies in Social Sciences, Calcutta, and Presidency University, AcharyaJagadish Chandra Bose Auditorium, Presidency University, 9 February 2016
- ‘Sixty Years of PatherPanchali’, Panel Discussion, Satyajit Ray Film and Television Institute, Kolkata, 19 December 2015
- Inaugural Lecture, UGC National Conference on ‘Women’s Voices: Heard Voices and Those Unheard. Elizabethan and Jacobean Theatre and the Indian Classroom Context’, Department of English, Victoria Institution (College) and SethhSoorajmullJalan Girls’ College, Keshub Memorial Hall, Victoria Institution, Kolkata, 3 December 2015
- “‘All Its Several Lodgings Composed’’: Visualizing A House of Art for a New Kolkata’, International Conference on ‘Visualizing the City’, ‘Envisioning the Indian City’ project, Jadavpur University and University of Liverpool, H L Roy Auditorium, Institute of Chemical Engineers, Kolkata, 28 November 2015
- ‘Shakespeare in the Indian Classroom’, UGC National Conference on “multiple Shakspeares”, Department of English, Serampore College, in association with BhowanipurEducational Society College, Srirampur, 7 October 2015
- ‘Advaitabad and Buddhism’, Mahabodhi Society, Kolkata, 8 August 2015

- “‘Hindoo Stuart’: Interpreting a Singular Hybrid’, International Workshop on ‘Second Cities in the Circuits of Empire’, School of Critical Studies, University of Glasgow, Professors’ Room 4, 16 May 2015

#### Academic Public Interview

- Conversation with AshisNandy, Apeejay Kolkata Literary Festival, Presidency University, AcharyaJagadish Chandra Bose Auditorium, 15 January 2016

#### Projects

- a) 2014-17: Second Cities in the Circuits of Empire: Glasgow / Calcutta and the Legacy of the Scottish Enlightenment Member, Advisory Committee School of Critical Studies, University of Glasgow, Centre for Studies in Social Sciences, Calcutta, and Presidency University, Funded by the British Academy, UK
- b) 2015-: Famine and Dearth in India and Britain 1550-1800: Connected Histories of Food Security Member, Advisory Group, Jadavpur University and the University of Exeter, Funded by the Arts and Research Council, UK, 229,239 GBP (193,748 GBP contributed by AHRC)
- c) 2014-: Envisioning the Indian City Advisor, Steering Committee Department of English, Jadavpur University and the University of Liverpool, Funded by the United Kingdom-India Education and Research Initiative (UKIERI) 6000
  - Supervision of Research
  - HardikbrataBiswas (School of Women’s Studies, Jadavpur University), ‘Spatializing the Visual: Re-locating Women’s Photographs in Bengal, 1880s-1970s’, Submitted. Date of Registration 3 October 2008
  - AbhishekSarkar (Department of English, Jadavpur University), ‘ “Varying Childness”: Children and Childhood in Select Plays of Shakespeare’. Awarded. Date of Registration 5 April 2010
  - RangeetSengupta(Department of English, Jadavpur University) ‘Asiatic Society and the Aesthetics of Indigenous Bengali Prose: 1784- 1904’. Submitted. Date of Registration 19 April 2010
  - Sonia Sahoo (Department of English, Jadavpur University), ‘The Rogue-Artists of Jonsonian Comedy’. Submitted. Date of Registration 19 August 2008
  - PurbashaAuddy (School of Cultural Texts and Records, Jadavpur University), ‘Contents of Nineteenth-Century Bengali Periodicals’. In progress. Started 2013.
  - SmitaBasu (Department of English, Jadavpur University), ‘A Colonizer as Insider: A Study of John Woodroffe as Exponent of the Tantras’. In progress. Started 2013.
  - AparupaGhosh (Department of Bengali, Jadavpur University), ‘Early Illustrations in Printed Bengali Books’. In progress. Started 2014.
  - Outreach Between 2 March 2015 (date of joining Presidency University) and 12 February 2016, I have served as resource person, expert in selection committees, Chancellor’s and the State Government’s Nominee on boards and committees, PhD examination committees, and committees related to research, publications, library collections and syllabi in many institutions. These include
    - Department of Comparative Literature, Jadavpur University
    - School of Cultural Texts and Records, Jadavpur University
    - Department of Bengali, Calcutta University
    - VisvaBharatiGranthaVibhaga
    - Department of English, University of Delhi

## Presidency University

- University of GourBanga
- Burdwan University
- NetajiSubhas Open University
- National Library, Kolkata
- National Digital Library, MHRD
- Indian Institute of Technology, Kharagpur
- Centre for Studies in Social Sciences, Kolkata
- Membership of Learned Societies, Committees, etc. (Select List)
- 2016: Chairperson, Committee for Monitoring the Renovation of the Heritage Building of the National Library, Union Ministry of Culture, Kolkata
- 2015: Invitee, Peer Review Group, National Digital Library, Union Ministry of Human Resource Development, IIT , Kharagpur
- 2015-: Malone Society, London, England
- 2015-: State Government Nominee; Board of Governors, Centre of Studies in Social Sciences, Calcutta
- 2014-: Member, Executive Committee, Centre for Archaeological Studies and Training, Eastern India, Kolkata
- 2013- : ManakSadasya, KaryakariniSamiti, BharatiyaBhashaParishad, Kolkata
- 2013: Managing Trustee, Kolkata Museum of Modern Art, Kolkata
- 2012-: Member (Chancellor's Nominee), Senate, University of Calcutta
- 2012-: Member, Executive Council, GourBanga University, Malda
- 2011-: Expert Member, Nominated by the Executive Council, Granthavibhaga Management Committee, VisvaBharati (GVMC/460 dated 31 December 2011), Santiniketan and Kolkata
- 2011-: Member, Advisory Board, Inquire: Journal of Comparative Literature (University of Alberta, Canada)
- 2011-: Member, Oversight and Monitoring Committee of the KalanukramikRabindraRachanavali Project, Ministry of Culture, Undertaken by VisvaBharati (Chronological Anthology of Rabindranath Tagore's Works) (letter from the Director, RabindraBhavana, RB:OG:602 dated 5 December 2011)
- 2011: Member, Jury Board, SaratPuraskar, SaratSamiti, Kolkata (in Bengali Literature)
- 2006-: Member, National Council of Education, Bengal, Kolkata
- 2003-: Member, International Shakespeare Association
- 2001- Member, Jury Board of AnandaLiterary Award (in Bengali Literature), Kolkata
- 2000-: Member, Shakespeare Association of India, New Delhi







**Presidency  
University**

86/1 College Street  
Kolkata 700073

P +91 33 2241 2738

F +91 33 2257 2444



# SELF-STUDY REPORT



PRESIDENCY UNIVERSITY  
KOLKATA

**For Submission to the National Assessment  
and Accreditation Council**



**Presidency University  
Kolkata  
2016**

**([www.presiuniv.ac.in](http://www.presiuniv.ac.in))**

**Volume-3  
Departmental Inputs  
Faculty of Natural and Mathematical Sciences**



# **SELF-STUDY REPORT**

**For Submission to the National Assessment and  
Accreditation Council**



**Presidency University  
Kolkata  
2016**

**([www.presiuniv.ac.in](http://www.presiuniv.ac.in))**

**Volume-3  
Departmental Inputs  
Faculty of Natural and Mathematical Sciences**



**Table of Contents**  
**Volume-3**  
**Departmental Inputs**  
**Faculty of Natural and Mathematical Sciences**

1.	Biological Sciences	1
2.	Chemistry	52
3.	Economics	96
4.	Geography	118
5.	Geology	144
6.	Mathematics	178
7.	Physics	193
8.	Statistics	218





## Evaluative Report of the Department : Biological Sciences

1. **Name of the Department :** Biological Sciences
2. **Year of establishment :** 2013
3. **Is the Department part of a School/Faculty of the university?** Faculty of Natural and Mathematical Sciences
4. **Names of programmes offered** (UG, PG, MPhil, PhD, Integrated Masters; Integrated PhD, DSc, DLitt, etc.) : BSc (Hons) in Biological Sciences, MSc in Biological Sciences, PhD
5. **Interdisciplinary programmes and departments involved:**
  - The Biological Sciences Department is an interdisciplinary department created by merging the Botany, Zoology and Physiology of the erstwhile Presidency College. The newly introduced UG (Hons) and PG degree courses Biological Sciences cut across the disciplines of life science and also amalgamated the elements of Biochemistry, Statistics and Physics in the curricula.
  - The UG elective General Education or 'GenEd' programmes, replace the earlier system of taking 'pass course' subjects and introduce students to a broad range of topics from across the disciplines. This programme is designed to teach them to transcend disciplinary boundaries and to ensure a more holistic liberal development that is in keeping with the academic traditions of the university and current international standards of research. The GenEd programme requires all undergraduate students to take 10 courses over four semesters where students of the Sciences take two compulsory Liberal Arts courses and vice versa. First and second semester students choose 3 options per semester and third and fourth semester students choose 2 options per semester for GenEd programme.

The GenEd courses offered by the Department of Biological Sciences are as follows: For Humanities Students (English, Hindi, Bengali, Political Science, Philosophy, History, Sociology): Insects and Human Life, Wildlife in India, Society and Behavior, Modern Lifestyle Diseases.

Science students only (offered to students of Economics, Mathematics, Physics, Chemistry, Geography, Statistics, Geology): Economic Botany, Genetic Engineering applications and prospects, Macromolecules in Life, Introduction to Plant tissue culture and Genetically Modified Plants.
6. **Courses in collaboration with other universities, industries, foreign institutions:** None
7. **Details of programmes discontinued, if any, with reasons –**
  - The Department of Biological Science in Presidency University was created in 2013 by merging together the preexisting Departments of Botany, Zoology, Physiology, Molecular Biology, Biochemistry and Biotechnology. An integrated, revised, interdisciplinary and updated syllabus encompassing almost all branches of biological sciences was formulated and the course of BSc and MSc in Biological Sciences was introduced, replacing the original syllabi of the merged departments. This updated syllabus integrated the common areas of all cardinal subjects into a common core syllabus taught to the undergraduate students in the first three semesters and to the postgraduate students in the first two semesters. In the remaining semesters, the students are given the choice of specializing in plant sciences, human physiology, zoology, microbiology or cell and molecular biology. The revised syllabi were formulated by retaining the essence of the main subjects and incorporating recent and related applied information.
8. **Examination System: Semester with Choice Based Credit System**

## Presidency University

### 9. Participation of the department in the courses offered by other departments:

Faculties of Human Physiology taught certain sections of Human Physiology, Biostatistics and Biochemistry to BSc students of Biochemistry.

### 10. Number of teaching posts sanctioned, filled and actual (Professors/Associate Professors/Asst. Professors/others) -

	Sanctioned	Filled	Actual (including CAS & MPS)
Professor	11	3	3
Associate Professors and Assistant professors	60	27	27

### 11. Faculty profile with name, qualification, designation, area of specialization, experience and research under guidance -

Name	Qualification	Designation	Specialization	No. of Years of Experience	No. of PhD/ MPhil students guided for the last 4 years
Dr. Madhubrata Choudhury	PhD (University of Calcutta), MSc (University of Calcutta)	Associate Professor and Head	Cytological, molecular & phytochemical analysis of important plants. Stress Biology.	Teaching - 30 years Research - 37 years	2
Prof. Nirmal Kumar Sarkar	PhD (University of Calcutta), MSc (University of Calcutta)	Professor	Histopathological and biochemical studies on pollutants	Teaching - 30 years Research - 35 years	2
Dr. Rabindranath Bhattacharyya	PhD (University of Burdwan), MSc (University of Burdwan)	Associate Professor	Legume-rhizobia Symbiosis in Environmental Monitoring. Plant Extracts and its green synthesized nano particle as antimicrobial agents	Teaching: 18 Years. Research: 34 Years.	
Souryadeep Mukherjee	MSc (University of Calcutta), CSIR-NET	Assistant Professor	Isolation of Antibacterials, Antioxidants, biotechnologically important enzyme/ proteins.	Teaching: 10 Years Research: 13 Years.13	none
Dr. Kousik Pramanick	PhD (University of Kalyani), MSc (University of Calcutta)	Assistant Professor	Steroidogenesis, oocyte maturation and ovulation in fish.	Teaching: 9 Years Research: 11 Years.	2
Dr. Amlan Ghosh	PhD (Jadavpur University), MSc (University of Calcutta);	Assistant Professor	Oral pathies of type-2 diabetes mellitus, Molecular biology of arsenic induced bladder cancer, epigenetics of prostate cancer.	Teaching: 7 Years. Research: 12 Years.	1

Name	Qualification	Designation	Specialization	No. of Years of Experience	No. of PhD/ MPhil students guided for the last 4 years
Dr. Pralay Majumder	PhD (University of Calcutta), MSc (University of Calcutta)	Assistant Professor	PhDCytoskeleton in collective cell migration.	Teaching: 3 Years. Research: 16 Years.	none
Dr. Puja Ray	PhD (R. D. University), MSc (Government Autonomous Science College)	Assistant Professor	Integrated weed and insect pest management.	Teaching: 3 Years. Research: 14 Years.	1
Dr. Santanu Chakraborty	PhD (Miami University), MSc (University of Calcutta)	Assistant Professor	Cardiovascular development and disease.physiology and endocrinology.	Teaching: 3 Years. Research: 15 Years.	1
Dr. Sumit Mandal	PhD (Nagasaki University), MSc (Karnatak University)	Assistant Professor	Marine ecology and biological oceanography	Teaching: 3 Years. Research: 11 Years.	2
Prof. Devashish Sen	MSc Calcutta University, M.Phil Calcutta University, Ph.D Calcutta University	Professor	Ergonomics, occupational health and work physiology	Teaching: 29 Years. Research: 25 Years.	2
Prof. Adhar Ch. Manna	MSc (JNU), M. Phil (JNU), PhD (JNU)	Professor	Microbiology, bacterial virulence factors	Teaching: 15 Years. Research: 27 Years.	
Dr. Prabir Kr. Mukhopadhyay	MSc (Calcutta University), PhD (Jadavpur University)	Associate Professor	Endocrinology, Reproductive Physiology	Teaching: 27 Years. Research: 30 Years.	1
Dr. Mausumi Sikdar	MSc (Calcutta University), PhD (Burdwan University)	Associate Professor	Microbiology and Nutrition	Teaching: 17 Years. Research: 24 Years.	3
Dr. Shampa Sarkar Biswas	MSc (Calcutta University), PhD (Jadavpur University)	Assistant Professor	Reproductive Biology and Endocrinology	Teaching: 7 Years. Research: 14 Years.	

Name	Qualification	Designation	Specialization	No. of Years of Experience	No. of PhD/ MPhil students guided for the last 4 years
Dr. Aparna Mukhopadhyay	MS, PhD (Yeshiva University, USA)	Assistant Professor	Cell Biology, virology	Teaching: 3 Years. Research: 15 Years.	1
Dr. Kalyan Giri	Ph.D (Jadavpur University), MSc (Jadavpur University)	Assistant Professor	Structure and Function of HIV Accessory Proteins	Teaching: 3 Years. Research: 15 Years.	1
Dr. Devrani Mitra	Ph.D (IIT Kharagpur), MSc (University of Calcutta)	Assistant Professor	Structural Optogenetics and Molecular spectroscopy on Fe-S proteins	Teaching: 3 Years. Research: 13 Years.	1
Dr. Sanghamitra Dey	Ph.D (Texas A&M University), MSc (Nagpur University)	Assistant Professor	Structure-Function Analyses of Macromolecules involved in Pathogenesis of Disease conditions	Teaching: 5 Years. Research: 15 Years.	1
Dr. Piyali Mukherjee	Ph.D (University of Calcutta), MSc (University of Calcutta)	Assistant Professor	Age-Related Neurodegeneration and Mitochondrial Bioenergetics	Teaching: 3 Years. Research: 15 Years.	1
Dr. Ranjana Pal	PhD (JNU), MSc (Calcutta University)	Assistant Professor	Cancer Biology	Teaching: 2 Years. Research: 9 Years.	1
Abhijit Dey	MSc (Calcutta University)	Assistant Professor	Ethnopharmacology and natural products research	Teaching: 9 Years. Research: 10 Years	none
Dr. Malay Das	PhD (Jadavpur University), MSc (University of Kalyani)	Assistant Professor	Plant molecular and evolutionary biology	Teaching: 3 Years. Research: 15 Years.	1
Dr. M. Ganesan	PhD, MSc	Assistant Professor	Plant Biomass Engineering	Teaching: 3 Years. Research: 5 Years.	none

Name	Qualification	Designation	Specialization	No. of Years of Experience	No. of PhD/ MPhil students guided for the last 4 years
Dr. Nabendu Biswas	PhD, MSc	Assistant Professor	Cancer Cell signalling and apoptosis	Teaching: 3 Years. Research: 8 Years.	1
Dr. Abhik Saha	PhD, MSc	Assistant Professor	Cancer Virology	Teaching: 3 Years. Research: 15 Years.	3
Dr. Atreyi Chatterjee	PhD (Jadavpur University), MSc (University of Calcutta)	Assistant Professor	Eukaryotic Transposable Elements: Mechanism of DNA transposition, DNA transposons and stress response, Cellular control of transposition, Transposons for genome analysis and engineering.	Teaching: 3 Years. Research: 16 Years.	none
Dr. Sugopa Sengupta	PhD (Indian Institute of Science, Bangalore), MSc (University of Calcutta)	Assistant Professor	Architecture of eukaryotic replisome and modulators of DNA topoisomerases.	Teaching: 3 Years. Research: 14 Years.	none
Dr. Sutapa Saha	PhD (Saha Institute of Nuclear Physics), MSc (University of Calcutta)	Assistant Professor	Leukaemia, Proteomics, Mass Spectrometry	Teaching: 3 Years. Research: 11 Years.	none
Dr. Paramita Choudhuri-Basu	PhD (Jadavpur University), MSc (University of Calcutta)	Assistant Professor	Microbiology	Teaching: 3 Years. Research: 10 Years.	none

**12. List of senior Visiting Fellows, adjunct faculty, emeritus professors : At present none**

**13. Percentage of classes taken by temporary faculty – programme-wise information**

2% of the UG and 2% of the PG programme.

**14. Programme-wise Student Teacher Ratio -**

UG 1st Year: 90 student/ 30 teachers: 3:1

PG 1st Year: 50 student/ 30teachers: ~2:1

**15. Number of academic support staff (technical) and administrative staff: sanctioned, filled and actual –**

Category	Sanctioned	Filled
Administrative		
Technical	Group C-5 Group D-11 Sweeper-6 Vacancy-6	3 (Group C) 11 (Group D) Sweeper-6

**16. Research thrust areas as recognized by major funding agencies –Vide Annexure**

- Bacterial genetics
- Oxidative stress response
- Transgenic plants
- Cancer biology
- Virus Biology
- Toxicology and environmental toxicity management
- Cell Biology
- Reproductive Biology
- Sports Physiology and occupational health

**17. Number of faculty with ongoing projects from a) national b) international funding agencies and c) Total grants received. Give the names of the funding agencies, project title and grants received project-wise. (Synopsis to be given here and provide full List in annexure)**

**National:**

Synopsis of Ongoing Research Projects: (details in Annexure with Criterion 3 and Annexure 1)

Funding Agency	Number of Projects	Fund received (Rs)
UGC	16	13118200
DST	10	32602000
CSIR	1	732000
DBT	8	28554299
WB DST	2	3775000
BRNS	1	2494875
OTHERS (Wellcome Trust)	1	35838792
Total (DBS) (ongoing)	39	11,71,15,166

**International:**

S. No.	Name of funding agency	Project Title	PI/ coPI
1	Jeju National University and National Research Foundation, South Korea	Development of transgenic Bentgrass and Sweet Potato plants with PhyB genes	Korean PI: Song-Pill Soon Indian PI : Dr.M.Ganesan

**Departmental Grants:**

Scheme	Year of sanction	Fund Sanctioned (Rs)
DST-FIST	2013	2,23,00,000
DBT (DBT BUILDER)	2014	4,94,85,767
<b>Total</b>		<b>7,17,85,767</b>

**18. Inter-institutional collaborative projects and associated grants received**

**a) National collaboration**

1. DST SERB: Targeting TRAIL resistance: An approach for preferential killing of advanced stage breast cancer cells (Accepted) PI: Ranjana Pal, Co-PI: Nabendu Biswas Collaborator: Dr. Sanjoy Chatterjee, (Tata Medical centre)
2. Dr. Sutapa Saha: National Collaboration with Prof. Dr. Abhijit Chakrabarti & Dr. Soumen Manna at Saha Institute of Nuclear Physics, Kolkata, Project Title: Investigating Common Molecular Mediators of Leukemia Reversion vs. Leukemogenesis & Molecular Mechanism of Leukemia Reversion in Acute Lymphoblastic Leukemia, Funding Agency: DBT (2014-2017)
3. Dr. Sugopa Sengupta: National Collaboration with Prof. Valakunja Nagaraja at Department of Microbiology & Cell Biology, Indian Institute of Science, Bangalore; Project Title: Understanding the importance of GINS-DNA polymerase interaction during replication., Funding Agency: DBT (2014-2017)
4. Dr. Malay Das: Collaboration with Prof. Amita Pal, Bose Institute. Project Title: Identification and phylogenetic characterization of genes regulating unique flowering behavior in tree bamboo, Funding Agency: Council of Scientific and Industrial Research (CSIR)
5. Dr. Aparna Mukhopadhyay: Collaboration with Dr. Partho Sarothi Ray, IISER, Kolkata. Project Title: Dissecting the molecular events of hepatitis C virus entry using pseudoparticles. Funding Agency: DBT.

**b) International collaboration**

1. Dr.M.Ganesan: Development of transgenic Bentgrass and Sweet Potato plants with PhyB genes, in collaboration with Jeju National University and National Research Foundation, South Korea, Korean PI: Song-Pill Soon

**19. Departmental projects funded by DST-FIST; UGC-SAP/CAS, DPE; DBT, ICSSR, AICTE, etc.; total grants received.**

- DST-FIST (sanctioned in 2013 for 5 years). Total amount sanctioned: Rs. 2,23,00,000
- DBT-BUILDER: Under the programme named “Support to establish DBT- Boost to Presidency University Interdisciplinary Life science Departments for Education and Research (BUILDER)” by DBT, Govt. of India, Department of Biological Sciences, Presidency University, Kolkata had received Rs. 4,94,85,767.00 in 2014

**20. Research facility / centre with:**

**State recognition/ national recognition**

- 1) DBT-BUILDER: Under the programme named “Support to establish DBT- Boost to Presidency University Interdisciplinary Life science Departments for Education and Research (BUILDER)” by DBT, Govt. of India, Department of Biological Sciences, Presidency University, Kolkata had received Rs. 4,94,85,767.00

## Presidency University

(Rupees Four Crores Ninety Four Lakhs Eighty Five Thousand Seven Hundred and Sixty Seven Only) for a period of 1 Year 0 Month on 28th March 2014 for carrying out following objectives –

1. Infrastructural development of existing laboratories for MS students
2. Providing a basic Computer Facility to every faculty members
3. Development of a basic Instrumentation Facility for Preparatory Labs
4. Development of a basic Instrumentation Facility for Plant Tissue Culture
5. Development of a basic Animal Tissue Culture and Imaging Facility
6. Development of a basic Instrumentation Facility for Spectroscopy

Title: “Support to establish DBT- Boost to Presidency University Interdisciplinary Life science Departments for Education and Research (BUILDER) programme”

Project Coordinators: Dr. Abhik Saha and Dr. Piyali Mukherjee

- Two different spaces have successfully developed for conducting and smooth running of MSc practical classes. Work Coordinators: Dr. Madhubrata Choudhury (Head, DBS), Dr. Sugopa Segupta and Dr. Atreyi Chatterjee
- In order to providing a basic computer facility to each and every faculty members of Department of Biological Sciences, a full set of Desktop, UPS and a laserjet printer has been provided.
- A basic Instrumentation Facility for Preparatory Labs: (Facility Coordinator: Dr. Sutapa Saha) A space has been allocated, renovated with proper air conditioning system and the following instruments were procured and subsequently installed for interdisciplinary research by 31 faculty members and conducting practical classes for masters students:
  - ChemiDoc MP System
  - Mini PROTEAN Tetra Cell
  - Mini Transblot module
  - Trans-Blot® Turbo™ Instrument
  - Power Pac Basic and Universal
  - Uview Mini Transilluminator
  - T100 Gradient PCR Thermal Cycler
  - Mini -Sub Cell GT System
  - Wide Mini-Sub Cell GT System
  - Research plus 3-Pack, Option 1 (0,5-10µL/10-100µL/100-1000µL)
  - Research plus 3-Pack, Option 2 (2-20µL/20-200µL/100-1000µL)
  - Centrifuge 5418, incl. rotor, 230V/50-60Hz
  - Concentrator plus, complete system with integrated diaphragm vacuum pump, connection, e.g. for gel dryer without rotor, 230 V/50-60 Hz
  - Mastercycler nexus 230 V/ 50-60 Hz



- Gel dryer
  - Eppendorf Eporator, 100-240V/50-60Hz, for bacteria and yeast, with EU-plug
  - Elix 3 Water Purification System
  - Horizontal Laminar Air Flow
  - Analytical Balance (Semi-Micro) Wensar # MAB 182Capacity
  - Digital Analytical Balance
  - High Precision Balance Wensar
  - Hotplate Magnetic Stirrer
  - pH Meter (Microprocessor)
  - SIMAG ice flaking machine with built-in-bin
  - Digital 5 liter Water Bath
  - BOD incubator with shaker
  - Steam Sterilizer (Autoclave)
  - Hielscher Ultra Sonicator System
  - BLUE STAR Cold Room
  - ELANPRO Upright Refrigerator –frost free, Model: ECG 300; Specification: Temp Range: +2 ~ +10°C, Capacity: 300 Ltrs, Door: glass
  - ELANPRO Upright Freezer-Frost free. Make: ELANPRO. Model: EFSV 340, Temp Range: –16°C ~ –22°C Capacity: 340 Ltrs
  - Dancing Shaker – MC-01; Tarsons # 3040
  - Gel Rocker – ROCKYMAX; Tarsons # 4080
  - Vortex Shaker – SPINIX; Tarsons # 3020
- A basic Instrumentation Facility for Plant Tissue Culture: (Facility Coordinator: Dr. Malay Das) A space has been allocated, renovated with proper air conditioning system and the following instruments were procured and subsequently installed for Plant research by approximately 10 faculty members and conducting relevant practical classes for masters students:
    - Premium U570 Upright Freezer
    - Plant Cell Culture Hood (Horizontal); Model No- LI-157
    - Multiparameter Analyser – a) Waterproof handheld Pentype meter; b) Twin Nitrate Meter; c) Twin Potassium Meter; d) Twin Sodium Meter
    - Portable GPS Garmin 20
    - Portable Chlorophyll meter (Konica Minolta) & Leaf Area Meter
    - Incubator Shaker (10 Cu.ft); Catalog No. Model BISL10LX
    - Incubator Shaker (8 Cu.ft); Catalog No. Model BIS8LX

## Presidency University

- Incubator Shaker (8 Cu.ft) Fitted with 6no. FL lamp; Catalog No.Model BISL8LX
- Plant Growth Chamber (12 Cu.ft); Catalog No. Model PGC12LX
- Plant Growth Chamber (9 Cu.ft); Catalog No. Model PGC09LX
- A basic Animal Tissue Culture and Imaging Facility: (Facility Coordinators: Dr. Piyali Mukherjee for Animal Cell Culture and Dr. Pralay Majumder for Imaging) Two adjacent but interconnected spaces have been allocated, renovated with proper air conditioning system and the following instruments were procured and subsequently installed for Animal research by approximately 20 faculty members and conducting relevant practical classes for masters students:
  - Premium U570 Upright Freezer
  - Centrifuge 5810R Advantage Cell Culture Pack
  - BD Accuri C6 Bench Top Flow Cytometry Analyzer
  - Motic Binocular Stereo Zoom Microscope, MODEL: SMZ-168-BP
  - Carl Zeiss Trinocular Upright Microscope with Epi-fluorescence Model: Axiolab A1
  - Digital 2 liter Water Bath
  - Thermo Scientific 1300 series Class II, Type A2 4 ft Biological Safety Cabinet includes coated interior cabinet walls, manual adjustable height stand, factory installed UV light and one set of armrests Model 1386
  - Thermo Scientific Forma Steri-Cycle CO2 Incubators with T/C sensor, Model 371
  - Thermo Scientific make Locator PLUS Rack and Box Systems, Model Locator 4 PLUS, Cat. No. CY50935-70
  - Wheeled Accessory Cart (5 inches high), Cat. No. AY509X1
  - ELANPRO Upright Freezer-Static Freezer; Make: ELANPRO. Model: EFS 340, Temp Range:  $-16^{\circ}\text{C}$   $\sim -22^{\circ}\text{C}$  Capacity: 340 Ltrs, Door: Solid Door
  - ELANPRO Upright Refrigerator –frost free , Model: ECG 300; Specification: Temp Range:  $+2 \sim +10^{\circ}\text{C}$ , Capacity: 300 Ltrs, Door: glass
- A basic Instrumentation Facility for Spectroscopy: (Facility Coordinator: Dr. Kalyan Giri) A space has been allocated, renovated with proper air conditioning system and the following instruments were procured and subsequently installed for interdisciplinary research by 31 faculty members and conducting relevant practical classes for masters students:
  - Eppendorf BioSpectrometer® basic, 230 V/50 – 60 Hz
  - Eppendorf  $\mu$ Cuvette™ G1.0
  - UVette routine pack, 2x100 pcs
  - Quartz cuvette
  - Shimadzu UV-VIS Spectrophotometer, UV-2600
  - FPLC with fraction collector, AKTA pure 25 M
  - ELANPRO Upright Refrigerator Frost Free/ Static Cooling. Model: ECG1100, Specification: Forced Air Cooling, Temp Range:  $+1 \sim +10^{\circ}\text{C}$  Cap : 1100 Ltrs, Door: 2 Glass Door

- ELANPRO Upright Refrigerator –frost free , Model: ECG 300; Specification: Temp Range: +2 ~ +10°C, Capacity: 300 Ltrs, Door: glass
- ELANPRO Upright Freezer-Static Freezer; Make: ELANPRO. Model: EFS 340, Temp Range: –16°C ~ –22°C Capacity: 340 Ltrs, Door: Solid Door
- Synergy™ H1 is Monochromator-based Multimode Microplate Reader.

**international recognition- NIL**

**21. Special research laboratories sponsored by / created by industry or corporate bodies – NIL**

**22. Publications: (provide List in annexure)**

Number of papers published in peer reviewed journals (national / international):

Paper (peer-reviewed)	national	–
	International	93

- Ø Monographs
- Ø Chapters in Books- 13
- Ø Edited Books
- Ø Books with ISBN with details of publishers
- Ø Number listed in International Database (For e.g. Web of Science, Scopus, Humanities International Complete, Dare Database - International Social Sciences Directory, EBSCO host, etc.) :
- Ø Citation Index – range / average = 0-46, average is 4.58
- Ø Impact Factor: <1 to 21.56

**23. Details of patents and income generated – NIL**

**24. Areas of consultancy and income generated – NIL**

**25. Faculty selected nationally / internationally to visit other laboratories / institutions industries in India and abroad -**

- Dr. Aparna Mukhopadhyay visited the Albert Einstein College of Medicine, Bronx, NY, USA as a visiting scientist from June-August 2014.
- Prof. Adhar Chandra Manna is visiting as a Visiting Research Scientist, Department of Microbiology & Immunology, Geisel School of Medicine at Dartmouth, Hanover, NH 03755, USA.
- Dr. M.Ganesan visited Department of Biotechnology, Jeju National University, Jeju, South Korea for two months (19-08-2013 to 18-10-2013).
- Dr. M.Ganesan visited Department of Biotechnology, Jeju National University, Jeju, South Korea for two months (9-07-2015 to 16-08-2015).
- Dr. Sumit Mandal was awarded Australian Government Endeavour Research Fellowship in 2015 and worked with Dr. Bayden Russell and Professor Sean D. Connell of Southern Seas Ecology Laboratories, The University of Adelaide, Australia from 2nd April to 30th September, 2015.

## Presidency University

### 26. Faculty serving in National committees b) International committees c) Editorial Boards d) any other (please specify)

#### **Dr. Rabindranath Bhattacharyya:**

Fellow: Elected fellow of Linnean Society of London.

Associate Editor: International Journal of Integrated Research and Development (Section Science and Technology).

**Dr. M. Ganesan**, Editorial Board Member in a) Journal of Plant science and Research, b) Biodiversitas and c) International Journal of Advanced Pharma and Bioengineering

**Dr. Prabir Kr. Mukhopadhyay** serves as paper setter/ examiner/ moderator/ reviewer/ member (Board of Studies) at Calcutta, Vidyasagar, Burdwan, Kalyani, Siddho Kano, North Bengal and West Bengal State Universities.

**Dr. Prabir Kr. Mukhopadhyay** was member of syllabus committees at Vidyasagar University (BSc Nutrition) (2014).

**Dr. Abhik Saha** is a member of the Editorial Board of Future Microbiology (Editorial Board, 2013-Present) and Infectious Agents and Cancer (Editorial Board, 2013-Present)

**Abhijit Dey** is a Editorial board member of International Journal of Pharmacology, and International Journal of Botany and Reviewer of the book series Studies in Natural Products Chemistry (Bioactive Natural Products) ISBN: 13: 978-0-444-59603-1. Elsevier Science Publishers, Amsterdam (Book Series), Edited by Prof. Atta-ur Rahman

**Dr. Sutapa Saha** is member of Human Proteome Organization (HUPO), USA

### 27. Faculty recharging strategies (UGC, ASC, Refresher/ orientation programmes, workshops, training programmes and similar programmes).

#### ● Orientation Programmes attended:

2012:1

2013: 1

2014: 1

2015: 11

#### ● Refresher Programmes attended:

2013: 1

2014: 1

#### ● Other Workshops attended by faculty:

- Dr. Shampa Sarkar Biswas attended “Workshop on Fundamentals of Animal cell culture and Functional applications” Sept 26-28, 2014, At Institute of Bioinformatics, Bangalore.

- Dr. Ranjana Pal attended a workshop on ‘Proteogenomics and Mass Spectrometry Data Analysis’ held at Institute of Bioinformatics, Bangalore from October 28 - 31, 2013

- Dr. Prabir Mukhopadhyay Workshop on Fundamentals of Animal Cell culture and Functional Applications, at Institute of Bioinformatics, Bangalore, September 26-28, 2014.
- Dr. Prabir Mukhopadhyay attended One-day workshop on “Role of CPCSEA in Animal Welfare” organized by the West Bengal University of Animal Sciences, Kolkata and Ministry of Environment and Forest, Govt. of India, on 2nd Aug, 2014.

#### **Training Courses:**

Dr. Shampa Sarkar Biswas successfully completed the short term training course on “Molecular approaches for diagnosis of animal cancers and strategies for developing cancer vaccines” organized at division of Veterinary Biotechnology at Indian Veterinary Research Institute, Izatnagar, UP, from 1-10 Nov 2014.

Dr. Ranjana Pal attended a short course entitled “Molecular approaches for diagnosis of animal cancers and strategies for developing cancer vaccines” at Indian Veterinary Research Institute, Izatnagar from 1st-10th November, 2014

#### **28. Student projects (provide List in annexure)**

Percentage of students who have done in-house projects including inter-departmental projects –

- 100% of the students are involved in in-house projects, as it is a part of the curricula.
- Percentage of students doing projects in collaboration with other universities
  - 1 in Jadavpur University (MSc Biological Sciences, 2015)
  - 5 in University of Calcutta (MSc Mol. Bio & Genetics), 2014
- Industry / Institute
  - 2 students in IISER, Kolkata ( MSc, Mol. Bio & Genetics), 2014
  - 1 student in IISER, Mohali (thorough IAS fellowship, MSc-Mol. Bio & Genetics), 2014
  - 1 student in NICED, Kolkata (thorough IAS fellowship, MSc-Mol. Bio & Genetics), 2014
  - 1 student in KPC Medical College & Hospital, Kolkata (MSc Mol. Bio & Genetics), 2014
  - 2 students in SINP, Kolkata (MSc, Mol. Bio & Genetics), 2014
  - 1 student in IISER, Kolkata, (MSc Biological Sciences, 2015)
  - 2 students in Saha Institute (MSc Biological Sciences, 2015)
  - 1 student in IACS, Kolkata (MSc Biological Sciences, 2015)
  - 1 student in IICB (2014, MSc Human Physiology)

#### **29. Awards / recognitions received at the national and international level by**

##### **Faculty -**

- Dr. M.Ganesan, Visiting Scientist, Department of Biotechnology, Jeju National University, Jeju, South Korea for two months (19-08-2013 to 18-10-2013).
- Dr. M.Ganesan, Visiting Scientist, Department of Biotechnology, Jeju National University, Jeju, South Korea for two months (9-07-2015 to 16-08-2015).
- Dr. Ranjana Pal: Canadian Institutes of Health Research/ Le Fonds de la recherche en santé du Québec training grant in cancer research of the McGill Integrated Cancer Research, 2012

## Presidency University

- Dr. Ranjana Pal received eLife Poster Award (2014 NextGen Genomics & Bioinformatics Technologies (NGBT) Conference' organized at NIMHANS, Bangalore 17th -19th November 2014)
- Dr. Abhik Saha: 2012: Ramanujan Fellowship, DST, Govt. of India
- 2014: Selected as 'Young Investigator' at YIM, 2014 Hyderabad
- 2015: Wellcome Trust/ DBT India Alliance Intermediate Fellowship

Doctoral / post doctoral fellows- None

Students – None

### 30. Seminars/ Conferences/Workshops organized and the source of funding (national international) with details of outstanding participants, if any. (full List in annexure)-

- a. Seminar by Prof. Ranjan Sen, Center for DNA Fingerprinting and Diagnostics, Hyderabad, on "Regulations of Rho-dependent transcription termination in bacteria" on 16th January, 2015. Organizers: Dr. Abhik Saha and Dr. Piyali Mukherjee
- b. National symposium on 'Molecules to Systems' held at Presidency University during 29th – 31st Jan, 2015, Sponsored by DBT-BUILDER programme at Presidency University. Organizers: Convener: Dr. Abhik Saha; Secretary: Dr. Piyali Mukherjee; Treasurer: Dr. Sutapa Saha

#### Invited Speakers: –

- XXII. Prof. Alok Bhattacharya, Jawaharlal Nehru University, New Delhi
- XXIII. Prof. Anand K. Bachhawat, Indian Institute of Science Education and Research, Mohali
- XXIV. Prof. Anuradha Lohia, Vice-Chancellor, Presidency University, Kolkata
- XXV. Dr. Arockiasamy Arulandu, International Centre for Genetic Engineering and Biotechnology, New Delhi
- XXVI. Dr. Aurnab Ghose, Indian Institute of Science Education and Research (IISER), Pune
- XXVII. Dr. Benu Brata Das, Indian Association for the Cultivation of Science
- XXVIII. Prof. Debashis Mitra, National Centre for Cell Science, Pune
- XXIX. Prof. Dipankar Chatterji, Indian Institute of Science, Bangalore
- XXX. Prof. Gaiti Hasan, National Centre for Biological Sciences, Bangalore
- XXXI. Dr. Harsha Gowda, Institute of Bioinformatics, Bangalore
- XXXII. Dr. Kaustuv Sanyal, Jawaharlal Nehru Centre for Advanced Scientific Research, Bangalore
- XXXIII. Dr. Lolitika Mandal, Indian Institute of Science Education and Research, Mohali
- XXXIV. Prof. LS Shashidhara, Indian Institute of Science Education and Research (IISER), Pune
- XXXV. Prof. Pinak Chakrabarti, Bose Institute, Kolkata
- XXXVI. Prof. Raghavan Varadarajan, Indian Institute of Science, Bangalore
- XXXVII. Prof. Samit Chattopadhyay, National Centre for Cell Science, Pune

- XXXVIII. Dr. Sandhya P. Koushika, Tata Institute of Fundamental Research, Mumbai
- XXXIX. Prof. Sujoy K. DasGupta, Bose Institute, Kolkata
- XL. Prof. Sumantra Chatterji, The Institute for Stem Cell Biology and Regenerative Medicine, Bangalore
- XLI. Dr. Suvendra N. Bhattacharyya, Indian Institute of Chemical Biology, Kolkata
- XLII. Prof. Vaskar Saha, TATA Medical Centre, Kolkata
- c. Seminar by Prof. Suman Dhar, Jawaharlal Nehru University, New Delhi on “A Multidisciplinary approach to understand and inhibit DNA replication in human malaria parasite Plasmodium falciparum” on 3rd Feb, 2015. Organizers: Dr. Abhik Saha and Dr. Piyali Mukherjee
- d. National symposium on “Environmental Impact on Biodiversity and Plant Development” held on February 19th - 20th Feb, 2015 at Presidency University, Kolkata. Organizing secretary and convener: Dr. Malay Das, Treasurer: Dr. Kamala Gupta.

**Invited speakers:-**

- I. Prof. J. P. Khurana, University of Delhi, South Campus
- II. Prof. KNG Ganeshaiyah; GKVK, Bangalore
- III. Prof. Dipankar Chakraborti; Jadavpur University, Kolkata
- IV. Prof. Bernard Paul; Université de Bourgogne, France
- V. Dr. A. C. Anil; National Institute of Oceanography
- VI. Prof. Narendra Tuteja; ICGEB, New Delhi
- VII. Prof. Paramjit Khurana; University of Delhi, South Campus
- VIII. Prof. Ashwani Pareek; Jawaharlal Nehru University, New Delhi
- IX. Prof. Sanjib K. Panda; Assam University, Silchar
- X. Prof. Subhra Chakraborty; National Institute of Plant Genome Research, New Delhi
- XI. Prof Santanu Ray; Visva-Bharati University, Shantiniketan
- XII. Dr. Manoj Prasad; National Institute of Plant Genome Research, New Delhi
- XIII. Dr. P. V. Shivaprasad; National Centre for Biological Sciences, Bangalore
- XIV. Prof. Usha Vijayraghavan; Indian Institute of Science, Bangalore
- XV. Prof. Sudip Chattopadhyay; National Institute of Technology, Durgapur
- XVI. Dr. Anjan K. Banerjee; Indian Institute of Science Education and Research, Pune
- XVII. Dr. Sourav Datta; Indian Institute of Science Education and Research, Bhopal
- XVIII. Prof. Anindya Sinha; NIAS, Bangalore
- e. Environmental Impact on Biodiversity and Plant Development (19th February, 2015- 20th February, 2015), DBT-BUILDER programme, Department of Biotechnology, Govt. of India

List of invited speakers:

1. Prof. Jitendra P Khurana

## Presidency University

2. Prof. KNG Ganeshaiiah
3. Prof. Dipankar Chakraborti
4. Prof. Bernard Paul
5. Prof. Narendra Tuteja
6. Prof. Paramjit Khurana
7. Prof. Ashwani Pareek,
8. Dr. A. C. Anil
9. Prof. Sanjib K. Panda
11. Prof. Subhra Chakraborty
12. Prof. Santanu Ray
13. Dr. Manoj Prasad
14. Dr. P.V. Shivaprasad
15. Prof. Usha Vijayraghavan
16. Prof. Sudip Chattopadhyay
17. Dr. Anjan K. Banerjee
18. Dr. Sourav Datta

f) National Symposium on “Modern trends in Biological Sciences was Organized by The Physiological Institute, Presidency University, Kolkata, India on February 21-23, 2014. The speakers were

1. Dr. Bhaskar Saha,
2. Dr. Uday Bandyopadhyay,
3. Dr. Sekhar Chakrabarti,
4. Dr. Partha Sarathi Mukherjee,

### Invited Lectures by eminent scholars:

Topic of talks/ Area of Expertise	Speakers
Green House gases and bioenergy: Theologians and radicals have a laugh whilst Martians eat metals	David Richardson, VC University of East Anglia, UK
All about the brain	Dr Sourav Banerjee, NBRC
Future of learning	Prof Sugata Mitra
Translational Research leading to therapeutic approaches	Dr Manas Majumder, Former irector TCG Life Sience
A Multidisciplinary approach to understand and inhibit DNA replication in human malaria parasite Plasmodium falciparum"	Prof AN Dhar, JNU
Regulations of Rho -dependent transcription termination in bacteria	Dr Ranjan Sen, CDFD Hyderabad
Signaling Photoreceptors: Time-resolved crystallography and Protein Design	Prof Keith Moffats, University of Chicago



Topic of talks/ Area of Expertise	Speakers
Plant Taxonomy	Prof. Gour Gopal Maity, Kalyani University
Reproductive Biology	Dr. Sayed N. Kabir, IICB, Jadavpur
Ergonomics, Environmental biologist	Dr. Debdut Ghosh Thakur, Chief Editor, Anadabazar Patrika Limited.
Sports Physiology	Prof. Pratima Chatterjee, Rajabazar Science College.
Sports Physiology, Ergonomics, Community Health	Prof. Prakash Dhara, Vidyasagar University
Industrial design	Prof. G. G. Ray, IIT Mumbai

### 31. Code of ethics for research followed by the departments

- The Institutional Biosafety Committee (IBSC) at Presidency University was constituted on 12th August, 2013. The internal members of IBSC meet regularly and the recombinant DNA safety guidelines are strictly followed in the institute. A yearly meeting is also held with the external experts to discuss projects that need biosafety clearance. Biosafety regulations and guidelines have also been incorporated in the curriculum of the Ph.D coursework of the students.
- The Institutional Animal Ethical Committee for Presidency College was formed in 2003 and renewed in 2011 upon the formation of Presidency University. The Registration No. is 796/03/ac/CPCSEA. The committee meets regularly twice a year and is currently undergoing a renewal of the committee, where three internal members of the existing committee will be changed. An animal house is currently operational in the Physiology section and has been renovated as per the guidelines of CPCSEA. A new animal house with breeding facility will be constructed to accommodate the growing needs of all faculties of DBS at another location at Presidency University and planning is currently underway.
- The Human Ethics committee was formed in 2010 as per the guidelines of ICMR. This committee was authorised in 2013 for another 4 years by ICMR.

### 32. Student profile programme-wise

Name of the Programme (refer to question no. 4)	Applications received	Selected		Pass percentage (as per previous year results)	
		Male	Female	Male	Female
UG sem1 (2013)	4409	20	34	100	100
PG sem 1 (2013)		22	34	100	100
UG sem1 (2014)	4334	26	35	100	100
PG sem 1 (2014)	1213	22	36	100	100
PhD	170	17	20		
UG sem1 (2015)	4409	27	45	100	100
PG sem 1 (2015)	1145	19	47	100	100

## Presidency University

### 33. Diversity of students-

Name of the Programme(refer to question no. 4)	% of students from the same university	% of students from other universities within the State	% of students from universities outside the State	% of students from other countries
PG sem 1 (2013)	40%	57%	3.5%	0
PG sem 1 (2014)	74%	26%	1/58= 1.7%	0
PG sem 1 (2015)	60%	40%	–	0

### 34. How many students have cleared Civil Services and Defense Services examinations, NET, SET, GATE and other competitive examinations? Give details category-wise.

- NET: 20
- GATE: 6
- West Bengal Civil Service: 1

### 35. Student progression–

Student progression	Percentage against enrolled
UG to PG	96%
PG to MPhil	-
PG to PhD	5%
PhD to Post-Doctoral	
Employed	
• Campus selection	none
• Other than campus recruitment	All pass outs are employed in different sectors including academic, management, administrative
Entrepreneurs	-

### 36. Diversity of staff--

Percentage of faculty who are graduates	
of the same university (Presidency College)	20%
from other universities within the State	70%
from universities from other States	10%
from universities outside the country	0%

### 37. Number of faculty who were awarded MPhil, PhD, DSc and DLitt during the assessment period –Two

### 38. Present details of departmental infrastructural facilities with regard to:

#### Library:

The seminar library of Human Physiology section houses about 226 books that cover various topics of Human Physiology such as circulatory, renal, sports, reproductive, endocrinology, nutrition, social as well as general topics such as microbiology, cell biology, genetics and molecular biology.

Internet facilities for staff and students- WiFi and LAN

**39. Total number of classrooms - 6**

Class rooms with ICT facility: 3

Students' laboratories: 7

Research laboratories: 22

**40. List of doctoral, post-doctoral students and Research Associates -**

From the host institution/university: Doctoral students: 8

From other institutions/universities: 30

**41. Number of post graduate students getting financial assistance from the university. – 2**

**42. Was any need assessment exercise undertaken before the development of new programme(s)? If so, highlight the methodology.**

- Workshop in department with experts from all fields followed by discussion in the BoS and finally ratification by the Faculty Council and the GB.

**43. Does the department obtain feedback from**

- a. faculty on curriculum as well as teaching-learning-evaluation? If yes, how does the department utilize the feedback?
- b. students on staff, curriculum and teaching-learning-evaluation and how does the department utilize the feedback?

Student-teacher committee and constant informal feedback from students help in improving the teaching strategy, organization of the course modules. A separate Central Committee assesses the evaluation and prepare a report. The Department acts accordingly.

- c. alumni and employers on the programmes offered and how does the department utilize the feedback?

Alumni and academic experts exchange their opinions through seminars, talks and discussions that are taken into account while revising the syllabi. The present course on Biological Science is an outcome of brainstorming sessions involving national and international experts in the field.

**44. List the distinguished alumni of the department (maximum 10)**

**Distinguished Alumni of DBS**

**a) Human Physiology**

- 1 Prof Subhash Mukhopadhyay
- 2 Prof Sacchidananda Banerjee
- 3 Prof Sukhomoy Lahiri
- 4 Prof Indira Chakraborty
- 5 Prof Alope Banerjee
- 6 Prof Debojyoti Das

**b) Botany**

- 1 Prof B B Biswas

## Presidency University

- 2 Prof P N Bhaduri
- 3 Prof J C Sen Gupta
- 4 Prof K P Biswas
- 5 Prof S P Sen
- 6 Prof A K Banerjee
- 7 Prof H C Ganguly
- 8 Prof K R Samaddar

### c) Zoology

- 1 Prof Ardhendu Sekhar Mukherjee
- 2 Prof Banku Behari Ganguly
- 3 Prof Somes Sanyal
- 4 Prof Amal Bhattacharya
- 5 Prof Simananda Adhikary
- 6 Prof Arup Sinha

#### 45. Give details of student enrichment programmes (special lectures / workshops / seminar) involving external experts. (provide List in annexure)

- **Brain Awareness Week (March 7th-12th):** Dr. Piyali Mukherjee in association with Manovikas Kendra, Kolkata organized a Brain Awareness week at Presidency University from March 7th-12th, 2015 as a part of the worldwide effort by Dana Foundation. This event saw active participation from students not only from DBS but also from Physics and sociology. A Brain Fair was organized as a part of this programme where students from different schools across the city visited. Our students displayed several brain models and two of them were selected for presentation at the annual function of NBRC, Manesar on December 16th, 2015. This programme was partly funded by NBRC

#### 46. List the teaching methods adopted by the faculty for different programmes. -

- Chalk and talk, Power point slides, Group studies, Seminars, Self studies and presentations, Problem-based, thought-provoking and interactive class lectures
- Conduct class presentation followed by group discussion among a group of students (15-20) for a selected topic – for example Infection Biology.
- Personal grooming
- Educational field trips both within and outside the state.

#### 47. How does the department ensure that programme objectives are constantly met and learning outcomes are monitored?

- (a) Continuous evaluation in classes (b) Class tests (c) Student Seminars/ Journal Clubs (d) two internal assessment examinations every semester (d) Grand viva for both theoretical and practical modules at the end of each semester

**48. Highlight the participation of students and faculty in extension activities. -**

- Dr. Sutapa Saha was member of the Organizing committee (Treasurer) for the National Symposium on Molecules to Systems, organized by the Department of Biological Sciences, Presidency University from 29th to 31st January, 2015; funded by DBT-BUILDER grant.
- Dr. Sutapa Saha Conducted a 2-day workshop on mass spectrometry based protein identification for the MSc Molecular Biology & Genetics Students (2012-2014 batch) at the Proteomics Facility, Saha Institute of Nuclear Physics, Kolkata, from 2nd to 3rd December, 2013).

**49. Give details of “beyond syllabus scholarly activities” of the department. sectional incharges**

- Nutritional survey and assessment of different physiological parameters such as anthropometry, hematological were conducted by undergraduate and postgraduate physiology students every year in different regions of Sikkim and North Bengal.
- Visits to IICB were conducted for undergraduate students of Human Physiology in 2013 and 2014.
- Visits to neighboring research institutes like SINP in Kolkata for gaining hands on experience with sophisticated Research Instruments.
- Guest lectures wherein prominent Scientists visit us and interact with students and provide guidance for future prospects in the field of Modern Biology Research.
- Students are encouraged to apply for various Summer research fellowships and selected candidates are provided with opportunity to carry out short term (2 months) summer projects at different institutes like TIFR, NCBS, IISc, CCMB, IISER- Pune, IISER-Kolkata, JNCASR, Bangalore. etc.
- Dr. Piyali Mukherjee conducts a student outreach programme called “Brain Matters” where her team visits different schools in Calcutta to create awareness about science in general and brain in particular. Her team comprises of the undergraduate students of DBS and the students are enthusiastically involved in the design and execution of this programme to generate excitement among the young audience. The students are also actively involved in research activities in the lab and regularly attend lab meetings and journal clubs.

**50. State whether the programme/ department is accredited/ graded by other agencies? If yes, give details.**

Briefly highlight the contributions of the department in generating new knowledge, basic or applied.

The department has been actively involved in outreach and has made a number of fruitful collaborations with other institutes and universities locally, nationally and globally. In recent times, a number of research projects were granted to the faculties. Our students have found their places for post graduation, doctoral and post doctoral studies in many recognized universities and institutes within India and abroad. We have well equipped laboratories provided to the students and research scholars, which are also supported by central instrumentation centre (CIC) housing a number of instruments and facilities needed for basic and applied research. Such a facility has been extended to the faculties and students of DBS as well as other Departments, whenever required. We have developed a number of such CIC in our Department utilizing the financial grant from DBT-BUILDERS .

The department provides laboratory facilities to the faculties working on diverse fields of biological sciences, both in the basic and the applied fields, such as cancer biology, structure biology, molecular biology and genetics, informatics, biophysics, biochemistry, ethnopharmacology, natural products chemistry, ecology and environmental science, neurobiology, ergonomics, microbiology, developmental biology, to name a few.

The University library has provided free access to a number of journals from reputed international publishing houses related to various fields of biological sciences. The Library facilities offer a very useful source of books, journals, monographs and e-versions of available resources which are accessible to the faculties, scholars and students even beyond the working hours.

## Presidency University

Our well-known museums provides a huge collection of herbaria and preserved museum specimens, some of which have also been documented as e-resource serving as instant references needed for basic research. Moreover, in this very short span, we have organized a few national symposia, talks, seminars and workshops at university and national levels. The department indeed is an academic abode not only for Presidency's students but also for research scholars outside of the institution.

### 51. Briefly highlight the contributions of the department in generating new knowledge, basic or applied.

The combination of newly recruited faculty from diverse fields of biology and training from various regions of the world along with senior, experienced faculty with years of excellent undergraduate and postgraduate teaching has brought about an ideal mixture of talent and resources.

### 52. Detail five major Strengths, Weaknesses, Opportunities and Challenges (SWOC) of the department.

Strengths	●	Passion to excel in the newborn university.
	●	The newly appointed faculty of the Biological Sciences has a right balance of young and experienced minds having considerable expertise and tremendous urge to establish the institution as a centre of academic excellence in the global arena.
	●	Influx of arguably the best of young brains from the eastern and north-eastern part of the country as both under-graduate and post-graduate students.
	●	Eagerness of the faculty members to work in inter- disciplinary areas of life sciences as a cohesive unit.
	●	Team-members have great expertise and proven track records in undertaking each of the programmes as evident from their research experience and publications.
Weaknesses	●	Space constraints.
	●	Necessity to procure considerable amount of funds to build up research and academic facilities, as the institution still suffers from age-old infrastructural facilities from the days when it was used to run as a college.
	●	Though the faculty members have well- proven track records, they are yet to prove their merit at Presidency University since they have been very recently appointed.
Opportunities	●	Location in metropolitan city
	●	A cutting- edge research facility to benefit both the students and faculty.
	●	Increase in the number of faculty members
	●	Recruitment of faculty adequate to studentteacher ratio requirements
	●	Outreach programme involving the local communities to conserve and parturitate the dying ethnic knowledge and scientific know how.
Challenges	●	State- of- the- art facilities to undertake cutting- edge research.
	●	Coping with the ever changing technology and quality standards.

### 53. Future plans of the department.

#### Future directions

1. To initiate the introduction of a number of interdisciplinary courses with departments like Physics, Economics, Geography, Sociology, Statistics etc.

2. To expand the existing collaborations regarding student and faculty exchange programmes at national and global levels.
3. To achieve higher success rates of students in NET and other tests at national level. Our students are already known to qualify for such examinations with very high success rate. Recently, students have been using free wi- fi facilities and are able to access various research journals and similar e-resources which have been helping them as important resource of study materials for examinations, research etc.
4. To reach out to the national as well as international levels of research with more frequent organization of seminars, talks, workshops, symposia etc.
5. A new campus at Kurseong has been initiated by the university which might provide an excellent working base to study Himalayan biodiversity and ecology in its natural habitat, since some of our faculty have specialized in those areas.
6. A renovation in developing and upgrading the pre-existing herbaria and museum facilities with possible conversion of the entire herbaria as e –resource, some of which has already been achieved. The department will also apply to acquire an acronym for the departmental herbaria housing some historically important as well as some more recent plant samples covering a huge number of plant families.

Annexures 1

List of Research Projects in Last four Years (only projects with faculty as PI)

Sl. No	Year of Initiation	Year of Completion	Funding agency	PI	Title	Fund Sanctioned	Fund Received	Completed/ongoing
1	2014	2017	DBT	PI: Prof Adhar C Manna. Co-PI: Dr. Aparna Mukhopadhyay	Biochemical characterization of SarA and SarR regulators in S. aureus to study molecular genetics	45 Lakhs		Ongoing
2	2014	2017	BRNS, Department of Atomic Energy	PI: Prof. Adhar C Manna	Understanding mechanism of oxidative stress responses by studying catalase regulation in S. aureus	26.6 Lakhs		Ongoing
3	2011	2014	ICMR	PI: Dr. Nirup B. Mondal (ICB), co-PI: Dr. Shampa Sarkar (Biswas)	Evaluation of Chenopodium album seed extract as potential spermicidal agent in different mammalian species and chemical investigations for the lead molecule.	27.16 lakhs		Completed
4	2015		WBDBT	PI: Dr. Puja Ray, Co PI: Abhijit Dey	Evaluation of phytopathogens associated with some major aquatic weeds with emphasis on their toxin production	22.13 lakhs		Ongoing
5	2014	-	Council of Scientific and Industrial Research (CSIR)	PI: Dr. Malay Das,	Identification and phylogenetic characterization of genes regulating unique flowering behavior in tree bamboo	20		Ongoing
6	2015	-	University Grant Commission (UGC)	PI: Dr. Malay Das, PU	Targeted identification of novel stress responsive gene copies in Brassica arisen through gene	13.80		Ongoing
7	2012	present	DST	PI: Bijetri Bandyopadhyay, co-PI: Prof. Devashish sen co-PI: Prof. Gour Gopal Ray (IIT, Mumbai)	An ergonomic study of occupational health problems of women construction workers in unorganized sectors of West Bengal, determination of safe load limit and some suggestive remedial measures.	Rs. 29.08 Lakh		Last instalment pending



Sl. No	Year of Initiation	Year of Completion	Funding agency	PI	Title	Fund Sanctioned	Fund Received	Completed/ongoing
8	2015	2018	DBT	PI: Dr. Aparna Mukhopadhyay co-PI: Dr. Partho Sarothi Ray, IISER, Kolkata	Dissecting the molecular events of hepatitis C virus entry using pseudoparticles	28.5 lakhs		Ongoing
9	2013	2018	DST, Govt. of India	Dr. Abhik Saha	Targeting Apoptosis-Autophagy Network in Virus Associated Human Cancers – A Therapeutic Approach	89,00,000.00	32,40,000.00	Completed, Relinquished on 2015 as started Wellcome Trust DBT IA
10	2014	2017	DBT, Govt. of India	Dr. Abhik Saha Co-PI Dr. Nabendu Biswas	Targeting Autophagy-Apoptosis Network as a Potential Therapeutic Strategy against Chronic Myeloid Leukemia	61,43,000.00	3507600.00	Ongoing
11	2015	2020	Wellcome Trust/ DBT India Alliance	Dr. Abhik Saha	Understanding the Molecular Crosstalk between Unfolded Protein Response and EBV pathogenesis in developing B-cell Lymphomas	3,58,38,792.00	10,117,100.00	Ongoing
12	2014		University Grants commission	Dr. Nabendu Biswas	Targeting TRAIL receptors by plumbagin: An approach for preferential killing of leukemic cells	600,000	600,000	Ongoing
13	2015		DST	Dr. Nabendu Biswas	Enhancement of TRAIL efficacy on Imatinib-resistance Chronic myelogenous Leukemic Cells: Deciphering the Imatinib resistance-TRAIL expression pathway	23,50,000	900,000	Ongoing
14	2014	2017	DBT	Dr. Sutapa Saha	Investigating Common Molecular Mediators of Leukemia Reversion vs. Leukemogenesis & Molecular Mechanism of Leukemia Reversion in Acute Lymphoblastic Leukemia	Rs. 15.80 Lakhs	Rs. 6.60 Lakhs	Ongoing
17	2014	2016	UGC	Sanghamitra Dey	Biochemical characterisation of sirtuin in plants	6 Lakhs	6 Lakhs	Ongoing
18	2015	2018	DBT	Sanghamitra Dey	Molecular mechanism of Sirtuin7 in tumorigenesis	25 Lakhs	15 Lakhs	Ongoing

Sl. No	Year of Initiation	Year of Completion	Funding agency	PI	Title	Fund Sanctioned	Fund Received	Completed/ongoing
15	2014	2017	DBT	Dr. Sugopa Sengupta	Understanding the importance of GINS-DNA polymerase interaction during replication.	Rs. 54.36 Lakhs	Rs. 32.6 lakhs	Ongoing
16	2015	2018	DST	Dr. Atreyi Chatterjee	Functional characterization and analysis of a novel mammalian piggybac transposon in <i>S. pombe</i>	Rs. 26.66 lakhs	Rs. 13 Lakhs	Ongoing
19	2015	2018	DST	Sanghamitra Dey	Molecular mechanisms of rice sirtuin under oxidative stress conditions	54.7 Lakhs	NOT RECEIVED YET	Ongoing
20	2015	2018	DST FAST TRACK	Pralay Majumder	Collective cell migration: How microtubules are regulated by polarity protein Par-1	Rs. 28,00,000	Rs. 11,00,000	Ongoing
21	2015	2018	UGC MRP	Pralay Majumder	Protrusion: the role of actin cytoskeleton	Rs. 11,30,000	Rs. 7,05,000	Ongoing
22	2015	2018	DST-SERB	Kousik Pramanick	Potential role of interleukin 6 (IL6) in ovarian function in climbing perch, <i>Anabastudineus</i> : a basic study to investigate endocrine-immune control of reproduction in teleost fish	3200000	1400000	Ongoing
23	2015-16	2018-19	DST	Devrani Mitra	Identification and validation of structural hotspots in signaling network of few blue light responsive photoreceptors using complex networks and biophysical techniques	~31 lakhs (Approved)	----	Ongoing
24	Sept. 2014	Aug. 2016	UGC	Amlan Ghosh	Identification and molecular characterization of high risk human papilloma virus (HR-HPV) in oral exfoliated cells of a clinically normal eastern Indian population for assessment of the risk of oral cavity cancer	Rs. 6,00,000	Rs. 6,00,000	Ongoing
25	Nov. 2014	Oct.2017	DBT (West Bengal)	Amlan Ghosh	Identification of susceptible gene associated with arsenic induced bladder cancer in West Bengal, India.	Rs. 15,62,000/	Rs. 8,14,000/	Ongoing

Sl. No	Year of Initiation	Year of Completion	Funding agency	PI	Title	Fund Sanctioned	Fund Received	Completed/ongoing
26	2015		DST2	Dr. Piyali Mukherjee	Understanding the regulation of mitochondrial bioenergetics in Parkinson's disease	25 Lakhs	14 Lakhs	Ongoing
27	2015	2018	UGC	Dr. Piyali Mukherjee	Regulation of mitochondrial bioenergetics and apoptosis induction in T cell Lymphomas	12.7 Lakhs	6.7 Lakhs	Ongoing
28	2016	2019	West Bengal DST	PI: Dr. Rabindranath Bhattacharya, co-PI: Abhijit Dey	Possible therapeutic application of some Mangroves of Sundarbans against some potent human pathogens	11.01 Lakhs		Ongoing
29	2013		UGC	Dr Madhubrata Choudhury	"Cytological & phytochemical analysis, molecular characterization & invitro propagation of some Indian species of Ornithogalum L"	Rs 11 lakh	Rs 11 lakh	Ongoing

## Annexures 2

### List of Seminars and Conferences Organized in last three years-

Sl No.	Date/Month	Topic	Source of Funding	Status
1	27th November, 2013	microRNA in Regenerative Medicine	University	student enrichment
2	21st February, 2014	Designing of a Novel Tryptamine-Gallic Acid Hybrid to Prevent Non-steroidal Anti-inflammatory Drug (NSAID)-induced Gastric Ulcer/Gastropathy	University	student enrichment
3	21st February, 2014	Macrophage-Leishmania Interaction: Fine Specificity in Switching CD40 Signaling	University	student enrichment
4	21st February, 2014	Ergonomics in Public Health	University	student enrichment
5	21st February, 2014	Molecular Characterization of HIV-1 Strain Circulating Among the Injecting Drug Users in Manipur, India.	University	student enrichment
6	19th & 20th February, 2015	Environmental Impact on Biodiversity and Plant Development	DBT-BUILDER	National
7	16th Jan, 2015	Regulations of Rho-dependent transcription termination in bacteria	Institutional	National

Sl No.	Date/Month	Topic	Source of Funding	Status
8	29th – 31st Jan, 2015	Molecules to Systems	DBT-BUILDER	National
9	3rd Feb, 2015	A Multidisciplinary approach to understand and inhibit DNA replication in human malaria parasite Plasmodium falciparum	Institutional	National
10	19th – 20th Feb, 2015	Environmental Impact on Biodiversity and Plant Development	DBT-BUILDER	National
11	7th and 8th October, 2013	2 days workshop on Applications of HPTLC in determination of bioactive compounds (joint convenor: Abhijit Dey)	Department of Botany, Presidency University	

### Annexures 3

#### Seminar workshops attended by teachers of the Department in last three years (chronologically)

Sl. No.	Name of the Teacher	Title of Seminar	Date	Organized by	Status (National/ International)	Role as Resource person /Invited Speaker
1	Dr. Rabindranath Bhattacharyya	6-th International Botanical Conference on Role of botanist on global climate change	06 and 07 Dec., 2014	Bangladesh Botanical Society	International	Participant
2	Dr. Rabindranath Bhattacharyya	Conference on antimicrobial research - ICAR 2014	1-3rd October, 2014.	Formatex Research Center Madrid, Spain.	International	Participant
3	Dr. Rabindranath Bhattacharyya	The first international conference on Bio-resource and stress management	February 6-9, 2013	Ratikanta Maiti foundation	International	Participant
4	Dr. Rabindranath Bhattacharyya	National Conference on "Frontiers in Life Sciences"	12-th and 13-th Dec. 2015	Alumni Association, School of Life Sciences, Sambalpur University, Odisha	National	Speaker
5	Dr. Rabindranath Bhattacharyya	National Seminar on Recent Advances in Natural Products Chemistry for Drug Discovery, Udaipur, Gomati Tripura, INDIA	November 28th & 29th, 2015	Netaji Subhas Mahavidyalaya, Tripura	National	Invited Speaker
6	Dr. Rabindranath Bhattacharyya	REFRESHERS COURSE (4 Lectures)	17th -18th Oct. 2014	Sambalpur University	National	Resource Person
7	Dr. Rabindranath Bhattacharyya	Refreshers course at jadavpur university	11/06/2014	Jadavpur University	National	Resource Person

Sl. No.	Name of the Teacher	Title of Seminar	Date	Organized by	Status (National/ International)	Role as Resource person /Invited Speaker
8	Dr. Rabindranath Bhattacharyya	National conference on current trends in life sciences research and challenges ahead	28th Feb.- 2nd Mar. 2014,	Sambalpur University, ODISHz, INDIA.	National	Participant
9	Dr. Rabindranath Bhattacharyya	21st west bengal state science and technology congress	20.02.2014	Department of Science & Technology, Govt. of West Bengal & The University of Burdwan, Burdwan, West Bengal, India	National	Participant
10	Dr. Rabindranath Bhattacharyya	National conference on new frontiers in medicinal plant research, gangtok , sikkim, india .	3-4 October, 2013	Sikkim University	National	Participant
11	Dr. Rabindranath Bhattacharyya	Refreshers course at jadavpur University	27/07/2013	Jadavpur University		Resource Person
12	Prof. Devashish Sen	An attempt to develop a scale to determine the reflection of aggression in assumed posture among motorbike riders	6th -9th December	International Ergonomic conference HWWE, held at IIT Bombay.	International	Lead Lecture
13	Prof. Devashish Sen	Effect of aggression on posture and postural stress among bike riders under occupational compulsion	17th December- 19th December	IABMS Conference, Pondicherry University, Puducherry.		Invited lecture
14	Prof. Adhar Ch. Manna	Developing anti-microbial therapeutics based on alternative approaches	July 24, 2015	Department of Biotechnology, North Bengal University, Siliguri, WB, India	National	Invited Speaker
15	Prof. Adhar Ch. Manna	Developing anti-microbial therapeutics based on alternative approaches	23rd April, 2015	School of Biotechnology, Jawaharlal Nehru University, New Delhi, India		
16	Dr. Prabir Kr. Mukhopadhyay	Alpha-tocopherol and ascorbic acid protect against arsenic-mediated toxicity of adult male rats	February 23, 2015	Krishnagar Govt. College		
17	Dr. Prabir Kr. Mukhopadhyay	Protection of arsenic effects on reproductive system of adult male rat by combined application of a-tocopherol and ascorbic acid.	January 29- 31, 2015,	National Symposium on "Molecules to Systems", Presidency University, Kolkata.	National	Poster

Sl. No.	Name of the Teacher	Title of Seminar	Date	Organized by	Status (National/ International)	Role as Resource person /Invited Speaker
18	Dr. Prabir Kr. Mukhopadhyay	Protection of arsenic effects on reproductive system of adult male rat by combined application of $\alpha$ -tocopherol and ascorbic acid.	Feb-14-17, 2015	International Conference on Reproductive Health and the 25th Annual Meeting of the Indian Society for the Study of Reproduction & Fertility (ISSRF-2015). Organized by the National Institute for Research in Reproductive Health (NIRRH), Mumbai.		
19	Dr. Prabir Kr. Mukhopadhyay	Mitigation of arsenic-mediated toxicity in hepatic, renal and hematological systems by high protein supplementation in adult male rats	7-9th Dec 2015	International Ergonomic conference HWWE, held at IIT Bombay.	International	Invited Speaker
20	Dr. Prabir Kr. Mukhopadhyay	Management on arsenic mediated male reproductive disorders by application of vitamin E and C	17th to 20th December 2015	36th Annual Conference IABMS, held at Pondicherry		
21	Dr. Shampa Sarkar Biswas	Effect of angiotensin II blocker in extracellular matrix remodelling in cryptorchid rat as a model	29-31 Jan 2015	Symposium Molecules to Systems. Presidency University, Kolkata,		Poster
22	Dr. Shampa Sarkar Biswas	Do Angiotensin II blockers have a dominating role in the extracellular matrix degradation and/or remodeling in the process of decidualization in rat uterus	February 14-17, 2015	25th meeting of the Indian society for the study of reproduction and fertility and International Conference on Reproductive Health, organized by NIRRH, Mumbai and ICMR at Mumbai.		Poster
23	Dr. Aparna Mukhopadhyay	Efficient Endocytic sorting by Rab1a.	January 29-31, 2015,	National Symposium on "Molecules to Systems", January 29-31, 2015, Presidency University, Kolkata.	National	Poster

Sl. No.	Name of the Teacher	Title of Seminar	Date	Organized by	Status (National/ International)	Role as Resource person /Invited Speaker
24	Dr. Shampa Sarkar Biswas	Search for a microbicidal-spermicide with contraceptive potential: an alternative to nonoxynol-9	18-20 December, 2015,	FIPSPHYSI-CON-2015, on Translational Physiology for Health Promotion at the University Colleges of Science and Technology (Rajabazar Science College), Calcutta University, Kolkata, India.	National	Invited Speaker
25	Dr. Santanu Chakraborty		December 10-12, 2014.	XXXVIII All India Cell Biology Conference & International Symposium on Cellular Response to Drugs, held in CDRI, lucknow.	National	Invited speaker
26	Prof. Adhar Ch. Manna	Developing anti-microbial therapeutics based on alternative approaches	Feb.21, 2014	National Symposium on Modern Trends in Biological Sciences organized by The Physiological Institute, Presidency University, Kolkata, India	National	In house speaker
27	Prof. Adhar Ch. Manna	Staphylococcal specific Sar-family transcriptional regulators as potential antivirulence targets in <i>Staphylococcus aureus</i>	Feb 03-07, 2014.	101st Indian Science Congress, Jammu, India		
28	Dr. Shampa Sarkar Biswas	Prenatal differentiation and migration of primordial germ cells: how we move towards our future	December 19-21, 2014	XXVI the annual national conference of the physiological society of India. Organized by Department of Physiology and Dept of Zoology, Berhampur Girls College, Berhampur, Murshidabad	National	Invited Speaker

Sl. No.	Name of the Teacher	Title of Seminar	Date	Organized by	Status (National/ International)	Role as Resource person /Invited Speaker
29	Dr. Mausumi Sikad	Effect of tea-extract on antibiotic resistant bacterial pathogens isolated from different Kolkata hospitals.	14th -16th November, 2014	35th Annual Conference of IABMS, held at HPAU, Palampur	National	Invited speaker
30	Dr. Aparna Mukhopadhyay	Rab1a regulates early sorting of endocytic vesicles.	November 21st-23rd, 2014	International Symposium on Genetic Analysis Translational and Developmental, University of Burdwan, India.	International	Speaker
31	Dr. Prabir Kr. Mukhopadhyay	Dietary supplementation as an approach towards the amelioration of arsenic-mediated toxicity in the female reproductive system- A review	21-22nd January, 2014	UGC Sponsored National Level Seminar held at Mohishadol Girls' College, Purba Medinipur		Resource Person
32	Prof. Devashish Sen		14th -16th November, 2014	35th Annual Conference of IABMS, held at HPAU, Palampur	National	Lead Lecture
33	Prof. Devashish Sen	A comparative study of variation in circadian rhythm of different physiological parameters between men working under artificial light and natural light.	1st-5th December, 2014	12th ISE HWWE (Humanizing work and work environment)	International	theme lecture
34	Dr. Mausumi Sikdar	Psidium guajava leaf extracts with Activity against Oral Bacteria: Potential Application in the Prevention and Treatment of Oral Disease	14th -16th December, 2013	34th Annual Conference of IABMS, held at Madras University, Chennai		
35	Dr. Prabir Kr. Mukhopadhyay	Arsenic effect on reproductive system of adult male rats- A corrective approach by combined application of vitamin E and C	27-29th December, 2013	34th Annual Conference of Indian Association of Biomedical Scientists held at the University of Madras, Chennai on	National	Plenary Lecture



Sl. No.	Name of the Teacher	Title of Seminar	Date	Organized by	Status (National/ International)	Role as Resource person /Invited Speaker
36	Dr. Prabir Kr. Mukhopadhyay	Protective role of $\alpha$ -tocopherol and ascorbic acid on arsenic toxicity– Studies on adult male Wister rats	4-6th December 2013	International Conference on Ergonomics and Human Factors held at the Dept. of Human Physiology with Community Health, Vidyasagar University, Midnapore	National	Invited speaker
37	Prof. Devashish Sen	2D:4D ratio in prediction of aggression amongst children	27-29th December, 2013	34th Annual Conference of Indian Association of Biomedical Scientists held at the University of Madras, Chennai on	National	Plenary Lecture
38	Prof. Devashish Sen	An attempt to develop noise map of Kolkata in horizontal and vertical plane.	4-6th December 2013	International Conference on Ergonomics and Human Factors held at the Dept. of Human Physiology with Community Health, Vidyasagar University, Midnapore	International	Lead Lecture
39	Prof. Adhar Ch. Manna	Regulation of Oxidative Stress-Responsive Genes by Sar-family regulators in <i>S. aureus</i>	Oct 17-19,2012.	XXXVI All India Cell Biology Conference & International Symposium on “Stress Adaptive Response and Genome Integrity” at BARC, Mumbai, India		
40	Dr. Mausumi Sikar	In search of an alternative to conventional antibiotics against <i>Staphylococcus aureus</i> : A study with <i>Catharanthus roseus</i> (Periwinkle/ Nayantara) and <i>Nyctanthes arbortristis</i> (Siuli) leaf extracts	1st to 3rd November, 2012	33rd Annual Conference of Indian Association of Biomedical Scientists and International Symposium, held at NITTE University, Mangalore	National	Invited Speaker

Sl. No.	Name of the Teacher	Title of Seminar	Date	Organized by	Status (National/ International)	Role as Resource person /Invited Speaker
41	Dr. Aparna Mukhopadhyay	Rab1a is a master regulator of early endocytic sorting events in hepatocytes	, Nov 9 - 13, 2012	Annual Meeting of American Association for the Study of Liver Diseases, Nov 9 - 13, 2012; Boston, MA, USA	International	Speaker
42	Dr. Prabir Kr. Mukhopadhyay	Protection of Hepatocellular toxicity in arsenic trioxide induced adult male Wistar rats by strategically modulated protein diet	Nov, 2012.	33rd Annual Conference (International Symposium on Recent Trends and Advances in Biomedical Sciences-an integrated approach) of IABMS held at Nitte University, Mangalore		
43	Dr. Prabir Kr. Mukhopadhyay	Studies on arsenic intoxicated oxidative stress induced-DNA damage in testis and accessory organ functions in rats	2012	International Conference on Frontiers in Biological Research (ICFBR-2012) in Dept. of Human Physiology with Community Health at Vidyasagar University, Midnapore	International	Invited speaker
44	Dr. Shampa Sarkar Biswas	The size of ovarian follicular reserve inversely modulates the rate of follicular atresia	14th July to 19th July, 2013	Germinal Stem cell Conference conducted by Gordon Research Conferences at Chinese University of Hong Kong, Hong Kong	International	Poster Presentation
45	Abhijit Dey	Exploring the Modern Approach in Biological Science: From Genome to Organism	24-27th November, 2015	3 day International conference organized by the Department of Zoology, Sidho-Kanho-Birsha University, Purulia	International	Invited speaker
46	Abhijit Dey	Exploring the Modern Approach in Biological Science: From Genome to Organism	24-27th November, 2015	3 day International conference organized by the Department of Zoology, Sidho-Kanho-Birsha University, Purulia	International	Chair

Sl. No.	Name of the Teacher	Title of Seminar	Date	Organized by	Status (National/ International)	Role as Resource person /Invited Speaker
47	Abhijit Dey	Emerging Trends in Biotechnology (ICETB 2014) and XI Convention of The Biotech Research Society	Nov. 6-9, 2014 on of The Biotech Research Society	Jawaharlal Nehru University (JNU), New Delhi, India	International	Poster
48	Dr. Malay Das	Gene death, birth and evolution of novel stress gene function in wild and crop species of Brassicaceae.	15/02/2014	International Seminar entitled “The progress and prospect of 21st century research in advance Life Sciences” organized by Department of Botany, Vivekananda Mahavidyalaya, Haripal, Hooghly, West Bengal	International	Invited speaker
49	Dr. Malay Das	Parasitic plant genome project: A comparative evolutionary approach to study the genetic changes associated with parasitism.	11/03/2014	35th Annual Meeting of PTCA (I) and National Symposium on Advances in Plant Molecular Biology and Biotechnology. IISER, Pune	National	Invited speaker
50	Dr. Malay Das	Parasitic plant genome project and beyond: listening to molecular cross-talks between host and it's enemy.	20/12/2014	One day Symposium on Recent Advances in Plant Biology organized by Plant physiology forum, India at Bose Institute, Kolkata	National	Invited speaker
51	Dr. Malay Das	Next generation plant biology and beyond: examples taken from Parasite plant genome sequencing project	14/10/2015	DST sponsored National Seminar on New Horizons in Biotechnology	National	Invited speaker
52	Ganesan M,	Plenary session on “Food security and Genetically modified crops”,	25th July 2013	West Bengal State Council of Science and Technology and Department of Biophysics, Molecular Biology and Bioinformatics, Calcutta University	National	Participation

**Presidency University**

<b>Sl. No.</b>	<b>Name of the Teacher</b>	<b>Title of Seminar</b>	<b>Date</b>	<b>Organized by</b>	<b>Status (National/ International)</b>	<b>Role as Resource person /Invited Speaker</b>
53	Dr. Abhik Saha	4th Annual conference of Molecular Pathology Association of India (MPAI)	14th – 15th Feb, 2015	Tata Medical Centre	National	Session Chair
54	Dr. Abhik Saha	Workshop on fundamentals of mass spectrometry-based proteomics for beginners	7th – 9th Oct, 2015	Institute of Bioinformatics, Bangalore	National	Trainee
55	Dr. Abhik Saha	Tumor Virus: A tool to understand Cancer Biology	14th Nov, 2015	Tata Medical Centre, Kolkata	National	Invited Speaker
56	Dr. Madhubrata Chaudhury	PTCA Meeting	2014	IISER , Pune		
57	Dr. Sutapa Saha	HUPO (Human Proteome	September 9-13, 2012	HUPO, USA Organization) 11th Annual World Congress	International	Invited for poster presentation
58	Dr. Sutapa Saha	IUBMB 10th International Symposium on Biochemical Roles of Eukaryotic Cell Surface Macromolecules	January 20-24, 2014	IUBMB, India	International	Invited for poster presentation'
59	Dr. Atreyi Chatterjee	National Symposium on Molecules to Systems	January 29-31, 2015	DBS, Presidency University, Funded by DBT-BUILDER	National	Organiser (Poster & Advertisement section) & poster
60	Dr. Sutapa Saha	National Symposium on Molecules to Systems	January 29-31, 2015	DBS, Presidency University, Funded by DBT-BUILDER	National	Resource Person (Treasurer) & poster
61	Dr. Atreyi Chatterjee	National Symposium Environmental Impact on Biodiversity and Plant Development	19th - 20th February, 2015	DBS, Presidency University, Funded by DBT-BUILDER	National	Registered member
62	Dr. Sugopa Sengupta	National Symposium on Molecules to Systems	January 29-31, 2015	DBS, Presidency University, Funded by DBT-BUILDER	National	Poster
63	Dr. Sugopa Sengupta	National Symposium Environmental Impact on Biodiversity and Plant Development	19th - 20th February, 2015	DBS, Presidency University, Funded by DBT-BUILDER	National	Registered participant

Sl. No.	Name of the Teacher	Title of Seminar	Date	Organized by	Status (National/ International)	Role as Resource person /Invited Speaker
64	Dr. Sutapa Saha	National Symposium Environmental Impact on Biodiversity and Plant Development	19th - 20th February, 2015	DBS, Presidency University, Funded by DBT-BUILDER	National	Registered participant
65	Dr. Sugopa Sengupta	MCB75: from Molecules to Organisms	11th-14th December, 2015	Department of Microbiology & Cell Biology, IISc, Bangalore	International	Registered participant
66	Dr. Pralay Majumder	Physicon 2014	2014	Berhampore Girls College, Berhampore	National	Invited speaker
67	Dr. Pralay Majumder	Indian Society for Developmental Biology Meeting	2015	CCMB, Hyderabad	National	Invited speaker
68	Dr. Pralay Majumder	Exploring the modern approach in biological science: From genome to organism	2015	SKBU, Purulia	International	Invited speaker
69	Amlan Ghosh	From GWAS Hits to Targeted	Re-sequencing	3RD to 8TH March, 2014	NIBMG, Kalyani, West Bengal	National
70	Amlan Ghosh	Molecule to system	29th to 31st January, 2015	Presidency University, Kolkata	National	Participant (Presented Poster)
71	Amlan Ghosh	Environmental impact on biodiversity and plant development	19th to 20th Febuary, 2015	Presidency University, Kolkata	National	Participant (Presented Poster)
72	Amlan Ghosh	Contemporary Laboratory and Field Experiments in Zoology	22nd Nov to 1st Dec 2015	Dept. of Zoology, APC Govt. College, Siliguri, Darjeeling.	National	Invited Speaker
73	Kousik Pramanick	Environmental Impact on biodiversity and Plant Development	2015	Presidency University, Kolkata	National	Participant
74	Kousik Pramanick	Molecules to Systems	2015	Presidency University, Kolkata	National	Participant
75	Kousik Pramanick	Applied Zoology in Sustainable Development: an update	2015	North Bengal University	National	Participant
76	Dr. Piyali Mukherjee	Gordon Research Conference on ‘‘Oxidative stress and Disease’’	14-19 April, 2013	Gordon Research Conference	International	Oral Presentation

**Presidency University**

<b>Sl. No.</b>	<b>Name of the Teacher</b>	<b>Title of Seminar</b>	<b>Date</b>	<b>Organized by</b>	<b>Status (National/ International)</b>	<b>Role as Resource person /Invited Speaker</b>
77	Dr. Piyali Mukherjee	Young Investigators Meeting,	9-12 Feb,2014	India Bioscience	National	Poster Presentation
78	Dr. Piyali Mukherjee	Gordon Research Conference on ‘Neurobiology of brain Disorders’	July 27-August 1, 2014	Gordon Research Conference	International	Poster Presentation
79	Dr. Piyali Mukherjee	International conference on “Development, degeneration and regeneration of neurons: Neurochemistry to Clinical neurology”	January 7-10, 2015	IPGMER	International	Poster Presentation
80	Dr. Piyali Mukherjee	National Symposium on “Molecules to Systems”	29-31st January, 2015	DBS, Presidency University	National	Poster Presentation
81	Dr. Piyali Mukherjee	Environmental Impact on Biodiversity and Plant Development	19-20th February, 2015	DBS, Presidency University	National	Attendee
82	Dr. Piyali Mukherjee	4th Annual MPAI conference	14th-15th February, 2015	Tata Medical Centre	National	Attended
83	Dr. Devrani Mitra	13th conference of the Asian Crystallography Association	5-8th December, 2015	Asian Crystallography Association	International	Delegate
84	Dr. Devrani Mitra	Environmental Impact on Biodiversity and Plant Development	19-20th February, 2015	DBS, Presidency University	National	Attendee
85	Dr. Devrani Mitra	Molecules to Systems	29-31st January, 2015	DBS, Presidency University	National	Presented poster
86	Dr. Devrani Mitra	New Advances in X-ray diffraction and Cryo-electron microscopy	15-17th December, 2014	Indian National Science Academy (INSA), New Delhi and Regional Centre for Biotechnology (RCB)	International	Presented poster
87	Dr. Sanghamitra Dey	Young Investigators Meeting, 2014			Hyderabad, India	Poster Presentation
88	Dr. Sanghamitra Dey	13th conference of the Asian Crystallography Association	5-8th December, 2015	Asian Crystallography Association	International	Delegate

Sl. No.	Name of the Teacher	Title of Seminar	Date	Organized by	Status (National/ International)	Role as Resource person /Invited Speaker
89	Dr. Sanghamitra Dey	Environmental Impact on Biodiversity and Plant Development	19-20th February, 2015	DBS, Presidency University	National	Attendee
90	Dr. Sanghamitra Dey	Molecules to Systems	29-31st January, 2015	DBS, Presidency University	National	Presented poster
91	Dr. Sanghamitra Dey	New Advances in X-ray diffraction and Cryo-electron microscopy	15-17th December, 2014	Indian National Science Academy (INSA), New Delhi and Regional Centre for Biotechnology (RCB)		
	International	Presented poster				
92	Dr. Sanghamitra Dey	4th Annual MPAI conference	14th-15th Feb, 2015	Tata Medical Centre	National	Attended
93	Dr. Piyali Mukherjee	4th Annual MPAI conference	14th-15th Feb, 2015	Tata Medical Centre	National	Attended
94	Dr. Kalyan Giri	Environmental Impact on Biodiversity and Plant Development	19-20th February, 2015	DBS, Presidency University	National	Attendee
95	Dr. Kalyan Giri	Molecules to Systems	29-31st Jan, 2015	DBS, Presidency University	National	Presented poster
96	Dr. Kalyan Giri	Golden Jubilee Meeting of Indian Biophysical Society	14-17 Feb, 2015	Indian Biophysical Society	National	Presented poster
97	Dr. Sanghamitra Dey	Modern Trends in Biological Sciences	21 Feb 2014	Dept of biological Sciences	National	Presented Poster
98	Dr. Piyali Mukherjee	Modern Trends in Biological Sciences	21 Feb 2014	Dept of biological Sciences	National	Presented Poster
99	Dr. Devrani Mitra	Modern Trends in Biological Sciences	21 Feb 2014	Dept of biological Sciences	National	Presented Poster
100	Dr. Piyali Mukherjee	National Symposium on Modern trends in Microbiology	October, 2013	St Xavier's College, Kolkata	National	Invited talk
101	Dr Madhubrata Choudhury	DBT –BUILDER Sponsored National Symposium - Environmental Impact on Biodiversity and Plant Development	19 – 20 th February 2015	Presidency University	National	Poster presentation
102	Dr Madhubrata Choudhury	DBT-BUILDER National Symposium - Molecules to System	29th – 31 st January 2015	Presidency University	National	Attended

**List of Publications :****2012**

1. Biswas N., Mahato SK., Chowdhury AA., Chaudhuri J., Manna A., Vinayagam J., Chatterjee S., Jaisankar P., Chaudhuri U., Bandyopadhyay S. 2012, ICB3E induces iNOS expression by ROS-dependent JNK and Erk activation for apoptosis of leukemic cells. *Apoptosis*, 17(6): 612-26 (citation 11; Impact Factor 3.68)
2. Chakraborty JB., Mahato SK., Joshi K., Shinde V., Rakshit S., Biswas N., Choudhury IM., Mandal L., Ganguly D., Chowdhury AA., Chaudhuri J., Paul K., Pal BC., Vinayagam J., Pal BC., Manna A., Jaisankar P., Chaudhuri U., Konar A., Roy S., Bandyopadhyay S.. 2012, Hydroxychavicol, a Piper betle leaf component, induces apoptosis of CML cells by mitochondrial ROS-dependent JNK and eNOS activation and overrides imatinib resistance. *Cancer Sci.*, 103(1):88-99 (citation 21; Impact Factor 3.52)
3. Chakraborty S and Yutzey KE. Tbx20 regulation of cardiac cell proliferation and lineage specialization during embryonic and fetal development in vivo. *Developmental Biology*. 2012 Mar 1; 363(1) 234-246.
4. Dey, A. and De, J.N., 2012. Anti snake venom botanicals used by the ethnic groups of Purulia District, West Bengal, India. *Journal of Herbs, Spices and Medicinal Plants*, 18(2): 152-165 DOI: 10.1080/10496475.2011.652298
5. Dey, A. and De, J.N., 2012. Ethnomedicinal plants used by the tribals of Purulia district, West Bengal, India against gastrointestinal disorders. *Journal of Ethnopharmacology*, 143(1): 68-80. Elsevier, Impact Factor: 3.014 (5-Year Impact Factor: 3.728). DOI: 10.1016/j.jep.2012.05.064.
6. Dey, A. and De, J.N., 2012. Phytochemistry of antiophidian botanicals: A review. *International Journal of Pharmacology*. 8(2): 62-79.
7. Dey, A. and De, J.N., 2012. Traditional use of medicinal plants as febrifuge by the tribals of Purulia district, West Bengal, India. *Asian Pacific Journal of Tropical Disease*, 2 (Suppl. 2): S800-S803. DOI: 10.1016/S2222-1808(12)60268-0
8. George, S.J., Barney, B.M., Mitra, D., Igarashi, R.Y., Guo, Y., Dean, D.R., Cramer, S.P., and Seefeldt, L., 2012, EXAFS and NRVS reveal a conformational distortion of the FeMo-cofactor in the MoFe Nitrogenase propargyl alcohol complex. *Journal of Inorganic Biochemistry*, 112, 85-92.
9. Ghosh A, Ghosh S, Maiti GP, Mukherjee S, Mukherjee N, Chakraborty J, Roy A, Roychoudhury S, Panda CK. 2012. Association of FANCC and PTCH1 with the development of early dysplastic lesions of the head and neck. *Ann Surg Oncol*. V.19 (Suppl 3, p. 528-38) (Citation: 19; Impact Factor: 3.94).
10. Lu, J., Verma, SC., Cai, Q., Saha, A., Dzung, RK., and Robertson, ES., 2012, The RBP- $\kappa$  binding sites within the RTA promoter regulate KSHV latent infection and cell proliferation. *PLoS Pathog.*, v. 8, p. e1002479. (Citation: 23; Impact Factor of the Journal: 8.057)
11. Maiti GP, Ghosh A, Chatterjee R, Roy A, Sharp TV, Roychoudhury S, Panda CK. 2012. Reduced expression of *limd1* in ulcerative oral epithelium associated with tobacco and areca nut. *Asian Pac J Cancer Prev*. V. 13(9), p.4341-6. (Citation: 5; Impact Factor: 2.5).
12. Majumder, P., Aranjuez, G., Amick, J., and McDonald, J.A., 2012, Par-1 controls Myosin activity and dynamics through Myosin Phosphatase to regulate border cell migration. *Curr Biol* 22 (5) 363-372 (Citation: 13; Impact Factor of the Journal: 10.9)



13. Mitra, D., Yang, X., Moffat, K, 2012, Crystal structures of Aureochrome1 LOV suggest new design strategies for Optogenetics, *Structure*, 20, 698-706.
14. Mukherjee, S., De, A., Ghosh, P., Dey, A., 2012. In vitro antibacterial activity of various tissue types of *Dumortiera hirsuta* (Sw) Nees from different altitudes of eastern Himalaya. *Asian Pacific Journal of Tropical Disease*. v. 2 (1), p. S285-S290. (Citation: 3)
15. Mukherjee, S., Dey, A., and Das, T., 2012 In-vitro antibacterial activity of n-hexane fraction of methanolic extract of *Alstonia scholaris* L. R.Br. stem bark against some multi drug resistant human pathogenic bacteria. *European Journal of Medicinal Plants*, v. 2(1), p. 1-10. Citation: 20
16. Musgrave, W. B., Yi, H., Kline, D., Cameron, J. C., Wignes, J., Dey, S., Pakrasi, H. B., Jez, J. M. 2012, Probing the Origins of glutathione biosynthesis throughout biochemical analysis of glutamate-cysteine ligase and glutathione synthetase from a model photosynthetic prokaryote. *Biochemical Journal*, v. 450(1): 63-72. (Impact factor – 4.9)
17. Saha, A., Lu, J., Morizur, L., Upadhyay, SK., Aj, MP., and Robertson, ES., 2012, E2F1 mediated apoptosis induced by the DNA damage response is blocked by EBV nuclear antigen 3C in lymphoblastoid cells. *PLoS Pathog.*, v. 8, p. e1002573. (Citation: 20; Impact Factor of the Journal: 8.057)
18. Saha, S., Halder, S., Bhattacharya, D., Banerjee, D., and Chakrabarti, A., 2012, Fractional Precipitation of Plasma Proteome by Ammonium Sulphate: Case Studies in Leukemia and Thalassemia. *Journal of Proteomics & Bioinformatics*, v. 5, p. 163-171. (Citation: 1; Impact Factor of the Journal : 2.55)
19. Sengupta A, Chakraborty S, Paik J, Yutzey KE and Evans-Anderson HJ. Fox01 is required in endothelial but not myocardial cell lineages during cardiovascular development. *Developmental Dynamics*. 2012 Apr; 241(4): 803-813.
20. Tanaka, A., Tanizawa, H., Sriswasdi, S., Iwasaki, O., Chatterjee, A.G., Speicher, D.W., Levin, H.L., Noguchi, E., and Noma, K., 2012, *Molecular Cell*, v. 48, p. 532-546. (Citations: 37; Impact factor of the Journal: 15.28)
21. van Deursen, F., Sengupta, S., De Piccoli, G., Sanchez-Diaz, A., and Labib, K., 2012 Mcm10 associates with the loaded DNA helicase at replication origin and defines a novel step in its activation, *EMBO J.*, v.31, p. 2195-2206 (Citation: 46, Impact Factor of the Journal: 9.8)
22. Westwood, James H., Claude W. dePamphilis, Malay Das, Mónica Fernández-Aparicio, Loren A. Honaas, Michael P. Timko, Eric K. Wafula, Norman J. Wickett, and John I. Yoder. “The Parasitic Plant Genome Project: new tools for understanding the biology of Orobanche and Striga.” *Weed Science* 60, no. 2 (2012): 295-306.

## 2013

1. Alayyoubi, M., Guo, H., Dey, S., Miller, J. F., Ghosh, P. 2013, Structure of the essential diversity-generating retroelement protein bAvd and its functionally important interaction with reverse transcriptase. *Structure*, v. 21(2): 266-76. (Impact factor -6.3)
2. Arambula, D., Wong, W., Medhekar, B. A., Guo, H., Gingery, M. , Czornyj, E., Liu, M., Dey, S., Ghosh, P., Miller, J. F. 2013, Surface display of a massively variable lipoprotein by a *Legionella* diversity generating retroelement. *Proceedings of National Academy of Sciences*, v. 110(20): 8212-17. (Impact factor -10.6)
3. Baker DG, Woods TA, Butchi NB, Morgan TM, Taylor RT, Sunyakumthorn P, Mukherjee P, Lubick KJ, Best SM, Peterson KE. (2013) Toll-like receptor 7 suppresses virus replication in neurons but does not affect viral pathogenesis in a mouse model of Langkat virus infection. *J Gen Virol*.v 94, p 336-47.
4. Banerjee, S., Lu, J., Cai, Q., Saha, A., Jha, HC., Dzung, RK., and Robertson, ES., 2013, The EBV Latent Antigen 3C Inhibits Apoptosis through Targeted Regulation of Interferon Regulatory Factors 4 and 8. *PLoS Pathog.*, v. 9 p. e1003314. (Citation: 23; Impact Factor of the Journal: 8.057)

## Presidency University

5. Basu, A., Saha, S., Karmakar, S., Chakravarty, S., Banerjee, D., Dash, B.P., Chakrabarti, A., 2013, 2D-DIGE based proteomics study of erythrocyte cytosol in sickle cell disease: Altered proteostasis and oxidative stress. *Proteomics*, v. 13, p. 3233-3242. (Citation: 8; Impact Factor of the Journal : 3.81)
6. Chakraborty I., Show S., and Sikdar M.. Searching for the anti-inflammatory activity of zinc-oxide nanoparticles (ZnONPs) suspensions in *Staphylococcus aureus* induced inflammatory rat model. *International Journal of Advances in Pharmaceutical Research*, October 2013: 10 (4), 2331-2339 ISSN: 2230 – 7583.
7. Chakraborty S, Sengupta A and Yutzey KE. Tbx20 promotes cardiomyocyte proliferation and persistence of fetal characteristics in adult mouse hearts. *Journal of Molecular and Cellular Cardiology* 2013 (62): 203-213.
8. Chaudhuri J., Chowdhury AA., Biswas N., Manna A., Chatterjee S., Mukherjee T., Chaudhuri U., Jaisankar P., Bandyopadhyay S. 2014, Superoxide activates mTOR-eIF4E-Bax route to induce enhanced apoptosis in leukemic cells. *Apoptosis*. 19(1): 135-48 (Citation: 4; Impact Factor of the Journal: 3.68)
9. Chowdhury AA., Chaudhuri J., Biswas N., Manna A., Chatterjee S., Mahato SK., Chaudhuri U., Jaisankar J., Bandyopadhyay S. 2013, Synergistic apoptosis of CML cells by buthionine sulfoximine and hydroxychavicol correlates with activation of AIF and GSH-ROS-JNK-ERK-iNOS pathway. *PLOS One*. 8(9):e73672. (Citation: 12; Impact Factor of the Journal: 3.2)
10. Crespo, D., Pramanick K., Goetz, F.W., Planas, J.V., 2013, Luteinizing hormone stimulation of in vitro ovulation in brook trout (*Salvelinus fontinalis*) involves follicle contraction and activation of proteolytic genes. *General and Comparative Endocrinology*. [Impact Factor: 2.823]
11. Das, P., Pramanick, k., Mukherjee, D., Maiti, B.R., 2013, In vitro induction of oocyte maturation and steroidogenesis by gonadotropins, insulin, calcitonin and growth factor in an estuarine flat head grey mullet *Mugil cephalus* L. *Fish Physiology and Biochemistry* DOI: 10.1007/s10695-013-9828-0. [Impact Factor: 1.545]
12. Ghosh A, Maiti GP, Bandopadhyay MN, Chakraborty J, Biswas J, Roychoudhury S, Panda CK. 2013. Inactivation of 9q22.3 Tumor Suppressor Genes Predict Outcome for Patients with Head and Neck Squamous Cell Carcinoma *Anticancer Res*. V. 33(3), p. 1215-1220.) (Citation: 5; Impact Factor: 1.87)
13. Gupta, B., Dey, A., Gupta, K., 2013. Plant Polyamines in Abiotic Stress Responses. *Acta Physiologiae Plantarum*, 35(7): 2015-2036. Springer. Impact Factor: 1.639. DOI 10.1007/s11738-013-1239-4.
14. Gupta, B., Gupta, K., and Mukherjee, S., 'Lipase production by a *Serratia marcescens* strain SN5gR isolated from the scat of lion-tailed macaque (*Macaca silenus*) in Silent Valley National Park, a biodiversity hotspot in India', *Annals of Microbiology*. 2013 63:649–659 DOI 10.1007/s13213-012-0515-7. ISSN 1590-4261. [IMPACT FACTOR 1.549]
15. Jez, J. M., Dey, S. 2013, The cysteine regulatory complex from plants and microbes: what was old is new again. *Current opinion in Structural Biology*, v. 23(2): 302-10. (Impact factor -9.4)
16. Jha, HC., Lu, J., Saha, A., Cai, Q., Banerjee, S., Prasad, MA, and Robertson, ES., 2013, EBNA3C-mediated regulation of aurora kinase B contributes to Epstein-Barr virus-induced B-cell proliferation through modulation of the activities of the retinoblastoma protein and apoptotic caspases. *J Virol.*, v. 87, p. 12121-38. (Citation: 13; Impact Factor of the Journal: 4.439)
17. Jha, HC., Upadhyay, SK., AJ, Prasad M., Lu, J., Cai, Q., Saha, A., and Robertson, ES. 2013, H2AX phosphorylation is important for LANA-mediated Kaposi's sarcoma-associated herpesvirus episome persistence. *J Virol.*, v. 87, p. 5255-69. (Citation: 21; Impact Factor of the Journal: 4.439)
18. Kamali, S., Wang, H., Mitra, D, Ogata, H, Lubitz, W, Manor, B.C., Rauchfuss, T.B., Byrne, D., Bonnefoy, V., Jenney, F.E. Jr, Adams, M.W., Yoda, Y., Alp, E., Zhao, J., Cramer, S.P., 2013, Active Site Fe-CN and Fe-CO vibrations in [NiFe] Hydrogenase – Observation by Nuclear Resonance Vibrational Spectroscopy, *Angew Chem Int Ed Engl.*, 52, 724-8 - (On cover)

19. Lucas, A. L., and A. C. Manna\*. 2013. Phenotypic characterization of sarR mutant in *S. aureus*. *Microbial Path.* 57: 52-61. (Impact factor: 2.01).
20. Maity GP, Mondal P, Mukherjee N, Ghosh A, Chakraborty J., Roychoudhury S. and Panda CK. 2013. Over-expression of EGFR in head and neck squamous cell carcinoma is associated with inactivation of SH3GL2 and CDC25A genes. *PLoS ONE*. V.8, e63440.) (Citation: 17; Impact Factor: 3.53).
21. Mandal, S., Harkantra, S.N., 2013, Changes in the softbottom macrobenthic diversity and community structure from the ports of Mumbai, India. *Environmental Monitoring and Assessment*, 185, 653–672. (Citation: 7; Impact Factor of the Journal: 1.67)
22. Mitra, D., George, S.J., Guo, Y., Peters, J.W., Keable, S., Pelminschikov, V., Case, D.A., Cramer, S.P., 2013 Characterization of [4Fe-4S] Cluster Vibrations and Structure in Nitrogenase Fe Protein at Three Oxidation Levels via Combined NRVS, EXAFS, and DFT Analyses, *Journal of the American Chemical Society*, 135, 2530-43
23. Mondol S, Mukherjee S, Chaudhuri K, Kabir SN and Mukhopadhyay P K. Prevention of arsenic-mediated reproductive toxicity in adult female rats by high protein diet. *Pharmacol Biol* (2013); 51(11): 1363-1371. (Impact Factor=1.421, citations=5)
24. Mukherjee P, Woods TA, Moore Rand Peterson KE. (2013). Activation of the Innate Signaling Molecule MAVS by Bunyavirus Infection Upregulates the Adaptor Protein SARM1, Leading to Neuronal Death. *Immunity*, v. 38, p705-16. Citation: 25 Impact Factor: 21.56
25. Mukhopadhyay P K, Dey A, Mukherjee S, and Pradhan NK. The effect of coadministration of  $\alpha$ -tocopherol and ascorbic acid on arsenic trioxide-induced testicular toxicity in adult rats. *J Basic Clin Physiol Phamacol* (2013), 24 (4), 245-53. (SJR=0.245
26. Paul, S., Kundu, S., Pramanick, K., Roy Moulik, S., Paul, P., Mukherjee, D., 2013, Involvement of PI3 kinase and MAP kinase in IGF-I and insulin induced ovarian steroidogenesis in carp *Cyprinus carpio*. *General and Comparative Endocrinology*, 181: 98-106. [Impact Factor: 2.823].
27. Pramanick, K., Kundu, S., Paul, S., Mallick, B., Roy Moulik, S., Pal, P., Mukherjee, D., 2013, Changes in plasma steroid levels during oocyte development in Indian shad, *Tenulosa ilisha* (Hamilton, 1822): role of gonadotropins on in vitro steroid production and development of oocyte maturational competence. *Animal Reproduction Science*. 141(3-4):177-88. [Impact Factor: 1.897]
28. Saha, A., and Robertson, ES., 2013, Impact of EBV essential nuclear protein EBNA-3C on B-cell proliferation and apoptosis. *Future Microbiol.*, v. 8, p. 323-52. (Citation: 09; Impact Factor of the Journal: 4.275)
29. Sengupta, S., van Deursen, F., De Piccoli, G., and Labib, K., 2013, Dpb2 Integrates the Leading-Strand DNA Polymerase into the Eukaryotic Replisome, *Curr. Biol.*, v. 23, p. 543-552 (Citation: 28, Impact Factor of the Journal: 10.134)
30. Show S., Chakraborty I. and Sikdar M. *Catharanthus roseus*: as a Bacteriostatic Inhibitor of Antibiotic Resistant *Staphylococcus aureus* Strain *International Journal of Advances in Pharmaceutical Research* Nov. 2013: 4 (11), 2469 – 2474, ISSN: 2230 – 7583.
31. Yi, H.\*, Dey, S.\*, Kumaran, S., Lee, S. G., Krishnan, H.B., Jez J. M., 2013, Structure of soybean serine acetyltransferase and formation of the cysteine regulatory complex as a molecular chaperone. *Journal of Biological Chemistry*, v. 288(51):36463-72 (Impact factor - 4.8) \* equal contribution.
32. Zhang, Yeting, Monica Fernandez-Aparicio, Eric K. Wafula, Malay Das, Yuannian Jiao, Norman J. Wickett, Loren A. Honaas et al. “Evolution of a horizontally acquired legume gene, albumin 1, in the parasitic plant *Phelipanche aegyptiaca* and related species.” *BMC evolutionary biology* 13, no. 1 (2013): 48.

1. Bag, A.K., Saha, S., Sundar, S., Saha, B., Chakrabarti, A., Mandal, C., 2014, Comparative proteomics and glycoproteomics of plasma proteins in Indian visceral leishmaniasis. *Proteome Science*, v. 12, p. 48. (Citation: 3; Impact Factor of the Journal: 1.88)
2. Bandyopadhyay B, Sen D . Occupational stress among women moulders: A study in manual brick manufacturing industry in West Bengal. *International Journal of Scientific and Research Publications*. 2014; 4 (6): 1-7
3. Chatterjee, A.G., Esnault, C., Guo, Y., Hung, S., McQueen, P.G., and Levin, H.L., 2014, Serial number tagging reveals a prominent sequence preference of retrotransposon integration, *Nucleic Acids Res.* , v. 42, p. 8449-60. (Citations: 4; Impact factor of the Journal: 9.112)
4. Dey A, Pandey D. (2014). HPTLC detection of altitudinal variation of the potential antivenin stigmaterol in different populations of the tropical ethnic antidote *Rauvolfia serpentina*. *Asian Pacific Journal of Tropical Medicine* 7S1:S540-5. Impact Factor: 0.926
5. Dey, A. and Pandey, DK (2014). HPTLC Method for Quantitative Evaluation of Seasonal Variation of Stigmaterol in *Rauvolfia Serpentina* (L). *Benth. ex Kurz. Journal of Biologically Active Products from Nature*. 4(3): 254-261.
6. Dey, A.\*, Lahiri A., Basak, A., Adhikari, J. (2014). Characterization of gluconeogenic fructose-1,6-bisphosphatase in the senescent thalli of an alga *Cladophora bengalensis* Martens. *Indian Journal of Plant Physiology*. 19(1): 8-13.
7. Dutta K, Basu B, Sen D. Identification and quantification of stressors affecting motorized two wheeler riders: An Ergonomic Attempt. *International Journal of Research-Granthaalayah*. 2014; 2 (1) :13-25
8. Gopi Nath Banik, Indrani Chakraborty, Mukhopadhyay P K. Ameliorative Effect of  $\alpha$ -tocopherol and Ascorbic Acid on the Accessory Reproductive Glands of Adult Male Rats in Arsenic Toxicity. *Int. J. Pharm. Sci. Rev. Res.*, 26(2), May – Jun 2014; Article No. 48, Pages: 282-287.
9. Jha, HC., AJ, MP., Saha, A., Banerjee, S., Lu, J., and Robertson, ES., 2014, Epstein-Barr virus essential antigen EBNA3C attenuates H2AX expression. *J Virol.*, v. 88, p. 3776-88. (Citation: 08; Impact Factor of the Journal: 4.439)
10. Kobayashi, Y., Ohyama, Y., Kobayashi, Y., Ito, H., Iuchi, S., Fujita, M., Zhao, C.R., Tanveer, T., Ganesan, M., Kobayashi, M., and Koyama, H., 2014, STOP2 activates transcription of several genes for Al- and low pH-tolerance that are regulated by STOP1 in *Arabidopsis*. *Molecular Plant*, 7(2): 311-322 (IF:6.45).
11. Manna, A. C. 2014. Genetic interruption of target genes for investigation of virulence factors. *Methicillin-Resistant Staphylococcus aureus (MRSA) Protocols: Methods in Molecular Biology*. Vol.1085. Chapter 9. Y. Ji (ed). Springer Science + Business Media, LLC (Chapter).
12. Mukherjee S, Mukhopadhyay A, Andriani G, Machado FS, Ashton AW, Huang H, Weiss LM, Tanowitz HB. *Trypanosoma cruzi* invasion is associated with trogocytosis. *Microbes Infect*. 2014 Nov 4. pii: S1286-4579(14)00251-2. (Impact Factor=2.86, citation=1)
13. Mukhopadhyay A, Quiroz JA, Wolkoff AW. Rab1a regulates sorting of early endocytic vesicles. *Am J Physiol Gastrointest Liver Physiol*. 2014 Mar 1;306(5):G412-24 (Impact factor= 3.798, citation=5).
14. Pramanick, K., Kundu, S., Paul, S., Mallick, B., Roy Moulik, S., Pal, P., Mukherjee, D., 2014, Steroid-induced oocyte maturation in Indian shad *Tenualosailisha* (Hamilton, 1822), is dependent on phosphatidylinositol 3 kinase signaling pathway. *Molecular and Cellular Endocrinology*. [Impact Factor: 4.039]
15. Saha, S., Banerjee, S., Banerjee, D., Chandra, S., and Chakrabarti, A., 2014, 2DGE and DIGE based proteomic study of malignant B-cells in B-cell Acute Lymphoblastic Leukemia. *EuPA Open Proteomics*, v. 3, p. 13-26. (Citation: 2; Impact Factor of the Journal: 4.12)

16. Show S., Banerjee S., Chakraborty I. and Sikdar M. In Vitro Comparison between Antibacterial activity of *Catharanthus roseus* and *Nyctanthes arbor-tristis* on Antibiotic Resistant *Staphylococcus aureus* strain. *Indo American Journal of Pharmaceutical Research*, 2014; 4 (3), 1487-1493. ISSN: 2231-6876.
17. Vos, S.M., Lyubimov, A.Y., Hershey, D.M., Schoeffler, A.J., Sengupta, S., Nagaraja, V., and Berger, J.M., 2014, Direct control of type IIA topoisomerase activity by a chromosomally encoded regulatory protein, *Genes Dev.*, v. 28, p. 1485-1497 (Citation: 2, Impact Factor of the Journal: 12.64)
18. Yang, Z., Wafula, E.K., Honaas, L.A., Zhang, H., Das, M., Fernandez-Aparicio, M., Huang, K., Bandaranayake, P.C., Wu, B., Der, J.P. and Clarke, C.R., 2014. Comparative transcriptome analyses reveal core parasitism genes and suggest gene duplication and repurposing as sources of structural novelty. *Molecular biology and evolution*, 32(3):767–790.

## 2015

1. Bandyopadhyay B, Sen D. Assessment of energy balance against the nutritional status of the women carrier of brickfields of West Bengal. *The International Journal of Occupational Safety and Ergonomics*. 2015. (Epub ahead of print)
2. Basu B, Dutta K, Mondal B, Sen D. Evaluation of stress among children due to school bag carriage: A review and call for research in Indian scenario. *Biomedicine*. 2015;35(4):338-343
3. Dey, A, Mukherjee, S. and De, A. (2015). Altitude and growth stage specific variation of antimicrobial activity of Darjeeling Himalayan *Pellia endiviifolia* against some potent human pathogens. *Journal of Herbs, Spices and Medicinal Plants*, 21(1): 102-110.
4. Dey, A. and De, J.N., 2015. Neuroprotective therapeutics from botanicals and phytochemicals against Huntington's disease and related neurodegenerative disorders. *Journal of Herbal Medicine* 5(1): 1-19. Impact Factor: 0.538.
5. Dzung, R.K., Jha, H.C., Lu, J., Saha, A., Banerjee, S., and Robertson, E.S., 2015, Small molecule growth inhibitors of human oncogenic gamma herpesvirus infected B-cells. *Mol Oncol.*, v. 9, p. 365-76. (Citation: 00; Impact Factor of the Journal: 5.331)
6. Ghosal, J. and Sikdar, M. Study on the status of fisherwomen health and other perspectives: an
7. Gururani, MA, Ganesan, M., and Song, P.S., 2015, Photo-biotechnology as a tool to improve agronomic traits in crops. *Biotechnology Advances*, 33: p. 53-63 (IF:9.01).
8. Gururani, MA, Ganesan, M., Song, I.J., Han, Y., Kim, J.I., Lee, H.Y., and Song, P.S., 2015, Transgenic Turfgrasses Expressing Hyperactive Ser599Ala Phytochrome A Mutant Exhibit Abiotic Stress Tolerance, *Journal of Plant Growth Regulation*, Accepted, DOI 10.1007/s00344-015-9502-0 (IF : 2.23).
9. Gururani, MA, Venkatesh, J., Ganesan, M., Strasser, R.J., Song, I.J., Han, Y., Kim, J.I., Lee, H.Y., Song, P.S., (2015) In vivo assessment of cold tolerance through chlorophyll-a fluorescence in transgenic zoysiagrass plants expressing mutant phytochrome A, *Plos One*, Accepted, DOI:10.1371/journal.pone.0127200 (IF : 3.68).
10. Hickey, A., Esnault, C., Majumdar, A., Chatterjee, A.G., Iben, J.R., McQueen, P.G., Yang, A.X., Mizuguchi, T., Grewal, S.I., and Levin, H.L., 2015, Single-Nucleotide-Specific Targeting of the Tfl Retrotransposon Promoted by the DNA-Binding Protein Sap1 of *Schizosaccharomyces pombe*, *Genetics*. V. 201, p. 905-924. (Citation: 0; Impact factor of the Journal: 5.963)
11. ISSN: 0975-833X.
12. Karmakar, S., Saha, S., Banerjee, D., and Chakrabarti, A., 2015, Differential proteomics study of platelets in

## Presidency University

- asymptomatic constitutional macrothrombocytopenia: altered levels of cytoskeletal proteins. *European Journal of Haematology*, v. 94, p. 43-50. (Citation: 2; Impact Factor of the Journal: 2.414)
13. Kaur Grewal, R., Mitra, D., and Roy, S., 2015, Mapping networks of light-dark transition in LOV photoreceptors, *Bioinformatics (Oxford)*, 31, 3608-16.
  14. M Das, M Fernandez-Aparicio, K Huang, Z Yang, NW Wickett, EK Wafula, C dePamphilis, H Bouwmeester, MP Timko, JI Yoder, JH Westwood (2015). The parasitic plants *Phelipanche* and *Striga*, which depend on exogenous strigolactones for germination, have retained genes for strigolactone biosynthesis. *American Journal of Plant Sciences* 6, 1151-1166
  15. Madeddu S, Woods TA, Mukherjee P, Sturdevant D, Butchi NB, Peterson KE. Identification of Glial Activation Markers by Comparison of Transcriptome Changes between Astrocytes and Microglia following Innate Immune Stimulation. *PLoS One*, v 10, e0127336. Citation: None Impact Factor: 3.23
  16. Maiti GP, Ghosh A, Mondal P, Baral A, Datta S, Samadder S, Nayak SP, Chakraborty J, Biswas J, Sikder N, Chowdhury S, Roy B, Roychowdhury S, Panda CK. 2015. The SNP rs1049430 in the 3'-UTR of SH3GL2 regulates its expression: Clinical and prognostic implications in head and neck squamous cell carcinoma. *Biochim Biophys Acta*. V. 1852, p. 1059-1067.) (Citation: 1; Impact Factor: 5.09.)
  17. Maiti GP, Ghosh A, Mondal P, Ghosh S, Chakraborty J, Roy A, Roychowdhury S, Panda CK. Frequent inactivation of SLIT2 and ROBO1 signaling in head and neck lesions: clinical and prognostic implications. *Oral Surg Oral Med Oral Pathol Oral Radiol*. 2015. V. 119(2), p. 202-12.) (Citation: 2; Impact Factor: 1.5.)
  18. Modak, BK, Gorai, P., Dhan, R., Mukherjee, A., Dey, A.\*, 2015. Tradition in treating taboo: Folkloric medicinal wisdom of the aboriginals of Purulia district, West Bengal, India against sexual, gynaecological and related disorders. *Journal of Ethnopharmacology*, 169:370-86 Impact Factor: 3.014 (5-Year Impact Factor: 3.728).
  19. Mukherjee P, Winkler CW, Taylor KG, Woods TA, Nair V, Khan BA, Peterson KE. SARM1, Not MyD88, Mediates TLR7/TLR9-Induced Apoptosis in Neurons. *J. Immunol.* v 196, p 4913-21. Citation: None Impact Factor: 4.92
  20. Saha, A., Jha, HC., Upadhyay, SK., and Robertson, ES., 2015, Epigenetic silencing of tumor suppressor genes during in vitro Epstein-Barr virus infection. *Proc Natl Acad Sci U S A.*, v. 112, p. E5199-207. (Citation: 00; Impact Factor of the Journal: 9.674)

## Book Chapters:

1. Dey, A. and De, J.N., 2015. Possible anti-Parkinson's disease therapeutics from nature-A review. In: *Studies in Natural Product Chemistry*. Vol. 44. Ed.: Atta-ur-Rahman. Elsevier Science, Amsterdam, The Netherlands. Pp 447-520.
2. Dey, A., Gupta, B., Gupta, K., 2014. Role of polyamines in plant-pathogen interactions. In: *Amino Acids and Their Derivatives: Significance for Plant Stress Adaptations*. Ed. by Naser A. Anjum and Sarvajeet S. Gill. CABI, UK. Pp: 222-244. ISBN: 9781780642734. DOI: 10.1079/9781780642734.0222.
3. Ghosh A, Single nucleotide polymorphism as molecular marker; a bioinformatic approach. (*Contemporary Laboratory and Field Experiments in Zoology*, ISBN: 978-8211-128-8)
4. Gupta, B., Dey, A., Gupta, K., 2014. Polyamines and their Role in Plant Osmotic Stress Tolerance, in *Climate Change and Plant Abiotic Stress Tolerance* (eds N. Tuteja and S. S. Gill), Pp: 1053-1071. Wiley-VCH Verlag GmbH & Co. KGaA, Weinheim, Germany. doi: 10.1002/9783527675265.ch40.

5. Nandy, S., Dey A., De A., Bhattacharyya R., Ray P., Mukherjee, S. 2015. Enhanced Bioactivity Exhibited by In vitro Grown *Hemidesmus indicus* (L.) R. Br. Extracts in Terms of Antioxidation and Anti Human-Pathogenic Bacterial Activity. *Medicinal Plants: Phytochemistry, Pharmacology and Therapeutics* Vol. 4. Editor: Dr. Vijay Gupta. Daya Publisher, New Delhi. (In Press)
6. Rabindranath Bhattacharyya and Sandip Das. (2015) "Exopolysaccharide Production By A Rhizobium Sp. From Root Nodules of *Phaseolus Mungo* (L.) In Heavy Metal Stress Condition, in *Indian Biologist*, ISSN:0302-7554,47(1), 53-59.
7. Rabindranath Bhattacharyya, Sandip Das and Sharmistha Basu (2015) "Bioproduction of indole acetic acid by a Rhizobium sp. in heavy metal stress condition", in *Journal of Botanical Society of Bengal*, ISSN:0971-2976. (In Press).
8. Rabindranath Bhattacharyya, Sandip Das, Souryadeep Mukherjee and Abhijit Dey. (2014), Antibacterial Effect of Rhizobial Exopolysaccharide Against Some Multidrug Resistance Human Pathogens.", in *Utilisation and Management of Medicinal Plants- Vol. 2.*, M/S Daya Publication House, New Delhi.
9. Saha, Sunayana, Nayak Sridhara, Bhattacharyya Indrani, Saha Suman, Mandal Amit K., Chakraborty Subhanil, Bhattacharyya Rabindranath et al. (2014): Understanding the patterns of antibiotic susceptibility of bacteria causing urinary tract infection in West Bengal, India., *Frontiers in Microbiology* 5. Citation: 04.IF- 4.0(2015).
10. Sandip Das and Rabindranath Bhattacharyya, (2015) Constraints in Biofertilizer Technology" in *Recent Trends in Biofertilizers*, (Eds: Pati and Mandal) ISBN: 9789384588656, Publisher: I.K. International (In Press).
11. Santi M. Mandal and Rabindranath Bhattacharyya. (2012), "Rhizobium – legume symbiosis: A model system for the recovery of metal contaminated agricultural land" in "Toxicity of heavy metals to legumes and bioremediation potential of rhizosphere microbes", Springer.115-127.
12. Sunayana Saha, Bony Deb and Rabindranath Bhattacharyya,(2015) "Indian medicinal plant extracts and its green synthesized metal nanoparticles: a new genre for combating human pathogens", in *The Battle Against Microbial Pathogens: Basic Science, Technological Advances and Educational Programmes*, (Editor: A. Méndez-Vilas), ISBN (13): 978-84-942134-6-5, Publisher: Formatex Research Center, Spain, Vol. 1, 164-173.
13. Sunayana Saha, Souryadeep Mukherjee, Abhijit Dey and Rabindranath Bhattacharyya,(2015)," A Comparative Study of Five Medicinally Important Plant Extracts Against Two Multi Drug Resistant Human Pathogenic Bacteria." In *Utilisation and Management of Medicinal Plants- Vol. 3.*, M/S Daya Publication House, New Delhi. (In Press). ISBN 13 9789351247050.

## Annexures 5

### List of Conference Publications Last Four Years

#### 2012

1. Banerjee, S., Lu, J., Saha, A., Cai, Q., Jha, HC., Dzung, RK., and Robertson, ES., 2012, EBNA3C stabilizes IRF4 to promote B cell transformation by downregulating IRF8, in 'International Congress on Oncogenic Herpesviruses and Associated Diseases' held at Philadelphia, Pennsylvania, USA on August 1-4, 2012, organized by Abramson Cancer Center at Penn Medicine, Perelman School of Medicine at the University of Pennsylvania, Penn Dental Medicine and the Wistar Institute. (International) (Poster presentation)
2. Jha, HC., Upadhyay, SK., Saha, A., Cai, Q., Banerjee, S., Lu, J., Mahadesh, PAJ., and Robertson, ES., 2012, EBNA3C mediated stabilization of aurora kinase B contributes to oncogenesis, in 'International Congress on Oncogenic Herpesviruses and Associated Diseases' held at Philadelphia, Pennsylvania, USA on August 1-4,

## Presidency University

- 2012, organized by Abarmsom Cancer Center at Penn Medicine, Perelman School of Medicine at the University of Pennsylvania, Penn Dental Medicine and the Wistar Institute. (International) (Poster presentation)
- Lu, J., Verma, SC., Cai, Q., Saha, A., Dzeng, RK., and Robertson, ES., 2012, The role of RBP-Jk and epigenetic modifications in KSHV infection of human primary cells, in ‘International Congress on Oncogenic Herpesviruses and Associated Diseases’ held at Philadelphia, Pennsylvania, USA on August 1-4, 2012, organized by Abarmsom Cancer Center at Penn Medicine, Perelman School of Medicine at the University of Pennsylvania, Penn Dental Medicine and the Wistar Institute. (International) (Poster presentation)
  - Saha, S., Banerjee, S., Banerjee, D., Chakrabarti, A., 2012, De-regulations of Malignant B-lymphoblast Proteome in B-cell Acute Lymphoblastic Leukemia: Insights to Prognostic Stratification in HUPO (Human Proteome Organization) 11th Annual World Congress, Hynes Convention Centre, Boston, Massachusetts, USA, September 9-13, abs v. 1, p. 211. (International) (Invited for Paper Presentation)

## 2013

- Mandal, S., Baragi, L. V., Anil, A. C. , 2013, Synergistic impact of ocean acidification and elevated temperature on byssogenesis of tropical fouling bivalve *Branchiodontes striatulus* (Henley, 1843), International Workshop on Ocean Acidification: Consequences for Marine Ecosystems, Indian Institute of Science Education and Research-Kolkata (IISER-K), India, 20-21 September, page no.: 39-40. (International) (speaker)

## 2014

- Saha, A., 2014, Targeting Apoptosis-Autophagy Network in Virus Associated Human Cancers – A Therapeutic Approach, in a One-day National Symposium on ‘Modern Trends in Biological Sciences’ held at Presidency University, Kolkata on 21st February, 2014, organized by “The Physiological Institute” (an old organization established in 1951 by Prof. Sachidananda Banerjee in the Department of Physiology, Presidency College). (National) (Poster presentation)
- Saha, A., 2014, Targeting Apoptosis-Autophagy Network in Virus Associated Human Cancers – A Therapeutic Approach, in ‘Young Investigator Meeting’ held at Ramoji Film City, Hyderabad on 8-12th February, 2014, organized by IndiaBioscience.org and NCBS, Bangalore, sponsored by Wellcome Trust DBT Alliance and EMBO. (National) (Poster presentation)

## 2015

- Basu J, Ghosh A. Analysis of oral pathological conditions in Type-2 diabetes. Molecule to system, Presidency University, Kolkata, 29th to 31st January, 2015, PU-13, p.-75)
- Bhattacharyya, S., Bose, P., Chakraborty, A., and Saha, A., 2015, Epstein –Barr Virus Nuclear Antigen 3C Targeted UPR-Autophagy Network: Transformation of B-Cell & Lymphomagenesis, in one day international seminar themed “Current Thoughts in Cell Sciences” being organized by Immunology & Regenerative Research Unit, Department of Zoology, University of Calcutta, in the university premises on 8th November 2015 at Centre for Research in Nanoscience and Nanotechnology, University of Calcutta, Salt Lake City, Kolkata. (National) (Poster presentation)
- Chayan Bhattacharjee, Aparna Mukhopadhyay and Mukhopadhyay P K. Protection of arsenic induced reproductive toxicity by supplementation with isocaloric high protein diet: A study on adult male rats. Proceedings International Ergonomics Conference, December 3-5, 2014.



4. Development: An Update. North Bengal University, West Bengal, India, 30th January to 2nd February, page no.: 27. (National) (speaker)
5. Esnault, C., Hung, S., Choudhury, P., and Chatterjee, A. G., 2015 Developing a novel mammalian piggybac transposon as a mutagenesis tool in *S. pombe*. in National Symposium on Molecules to Systems, Presidency University, Kolkata, January 29-31, abs v. 1, p. 34. (National) (Paper presentation)
6. Ghosh, M. and Mandal, S., 2015, Meiobenthic biodiversity from soft bottom estuarine habitat of Indian Sundarbans: A pilot study. Paper presented at National Conference on Applied Zoology in Sustainable
7. Maity, S., Mukherjee, B., Ghosh, S., Saha, S., 2015, Exploring Common Molecular Links between Leukemogenesis, Trans-Differentiation, & Tumor Reversion in Hematopoietic Cells in National Symposium on Molecules to Systems, Presidency University, Kolkata, January 29-31, abs v. 1, p. 47. (National) (Resource person plus Paper presentation)
8. Maity, S., Seal, R., Chakrabarti, A., Saha, S., 2014, Exploring the possible role of cell surface and cytoskeletal proteins in the atypical phenomenon of tumor reversion in IUBMB 10th International Symposium on Biochemical Roles of Eukaryotic Cell Surface Macromolecules, Fortune Park, Panchawati, Kolkata, January 20-24, abs v. 1, p. 128 . (International) (Invited for Paper Presentation)
9. Mandal, S., and Nath, T., 2015, Diversity and community structure of sand dwelling macrobenthos of Siridao Sand Flat, Goa, India. Paper presented at National Conference on Applied Zoology in Sustainable Development: An Update. North Bengal University, West Bengal, India, 30th January to 2nd February, page no.: 28. (National) (speaker)
10. Saha, A., 2015, Understanding the Molecular Crosstalk between Unfolded Protein Response-Autophagy network and EBV Pathogenesis in Developing B-cell Lymphomas, in Wellcome Trust/DBT India Alliance Fellows Meeting on 6th – 7th Nov, 2015 at Novotel Airport, Hyderabad, India organized by Wellcome Trust/DBT India Alliance. (National) (Poster presentation).
11. Sardar SK, Bagchi S, De A, Palchoudhury S, Pal D, Panda CK, and Ghosh A. Arsenic and urinary bladder cancer in West Bengal: Clinical and prognostic evaluation. Environmental impact on biodiversity and plant development, , Presidency University, Kolkata, 22nd November to 1st December, 2015, p.-32).
12. Shaz, H., Rahman,W., Nagaraja, V., Labib, K., and Sengupta, S., 2015, Functional analysis of the key players involved in genome maintenance; in National Symposium on “Molecules to Systems” , Presidency University, Kolkata, January 29-31, abs v. 1, p. 46. (Paper presentation)

### Synopsis of Publications

Publications		2012	2013	2014	2015	Total
Paper (peer-reviewed)	national					
	International	22	33	18	20	93
Books & Monographs	national					
	International					
Articles in magazine/ Newspaper		0	0	0	0	0

**Annexures 6**

**Summer Projects conducted for students from other institutes and for own students and summer projects arranged for own students in other institutes (last four years)-**

Students from other Institutes/ Universities:

1. **Rumela Bose** ( St. Xaviers College) May-June 2015 did a summer project with **Dr. Shampa Sarkar Biswas**.
2. **Miss Suchismita Dhara** (Vidyasagar University) Feb-May 2014 did a summer project with **Dr. Rabindranath Bhattacharyya**.
3. **Miss. Monami Karmakar** (Vidyasagar University) Feb-May 2015 did a summer project with **Dr. Rabindranath Bhattacharyya**.
4. **Miss. Peeali Mukherjee** (Vidyasagar University) Feb-May 2015 did a summer project with **Dr. Rabindranath Bhattacharyya**.
5. **Kusumika Roy**, The Heritage Institute of Technology, Kolkata, 2014.
6. **Reya Ganguly**, Visva-Bharati University, Santiniketan, West Bengal. 2013 and 2014.
7. **Abhijit Dey** supervised Gagandeep Kaur, Pondicherry University 2015
8. **Dr. Amlan Ghosh** mentored Shuvamita Dalal, Vidyasagar College, University of Calcutta in 2014 and Souradeep Basu, Vidyasagar College, University of Calcutta, in 2015
9. **Souryadeep Mukherjee** mentored Sayani Kundu, Vidyasagar College, University of Calcutta in 2014, **Riya Mandal**, Vidyasagar College, University of Calcutta, 2014
10. **Dr. Piyali Mukherjee** mentored Sohini Bhattacharya, St. Xaviers University, 2014
11. **Dr. Malay Das** mentored **Monalisa Parui**, HIT, 2014, **Sonali Saha**, Barasat Govt. College, 2015; **Sayan Saha**, Pondichery University, 2015; **Sneha Das**, HIT, 2015

**Own students at other Universities:**

1. Chayan Bhattacharya (M. Sc, Molecular Biology and Genetics), Chittaranjan National Cancer Institute, 2013.
2. Sudipa Maity (M. Sc, Molecular Biology and Genetics) ,Saha Institute of Nuclear Physics, 2014
3. Rishav Seal (M. Sc, Molecular Biology and Genetics) ,Saha Institute of Nuclear Physics, 2014
4. Chandrama Majumdar (M. Sc, Molecular Biology and Genetics), KPC Medical College & Hospital, Kolkata.
5. Soumyasree Sasmal and Amrita Dutta (M. Sc, Molecular Biology and Genetics), Department of Zoology , Ram Mohan College, Calcutta University, Kolkata.
6. Rubia Mondal -MSc Physiology (2014) did dissertation project at IICB
7. Bidhan Halder- MSc DBS (2015) did dissertation at IISER Kolkata
8. Antara Mukherjee- MSc DBS (2015) did dissertation at Jadavpur University.
9. Sayak Mukhopadhyay-MSc DBS (2015) did dissertation at Saha Institute of Nuclear Physics
10. Madhurima Ghosh-MSc DBS (2015) did dissertation at Saha Institute of Nuclear

**Annexure: 7**

**Names of Students with outstanding achievements and placements for higher studies  
(last four years)**

- Working as a Research Fellow at University of St. Andrews, UK-Aninda Sundar Dey, PG (Molecular Biology & Genetics) 2011-2013 Batch
- Selected for PhD at IIT-Roorkee-Sudipa Maity, PG (Molecular Biology & Genetics) 2012-2014 Batch
- Pursuing PhD at National Institute of Biomedical Genomics (NIBMG), Kolkata-Anwasha Sarkar, PG (Molecular Biology & Genetics) 2012-2014 Batch
- Selected for PhD at IIT Kharagpur- Aditya Jyoti Basak, PG DBS (Biochemistry & Biophysics) 2013-2015
- Pursuing PhD at Saha Institute of Nuclear Physics, Kolkata- Sayak Mukhopadhyay, PG DBS (Molecular Biology & Cell Biology) 2013-2015 batch
- Pursuing PhD at Indian Institute of Chemical Biology (IICB), Kolkata- Bhaskar Basu, PG DBS (Molecular Biology & Cell Biology) 2013-2015 batch
- Shinjini Chakraborty, Aritra Das and Shravasti Misra did summer training at the Institute of Tropical Medicine in 2012.
- Shinjini Chakraborty, BSc student of Physiology was awarded by the Indian Academy of Sciences, Bangalore, India and went to Dr. Vasudevan Seshadri at the National Centre for Cell Sciences, Pune, India July, 2013-September, 2013.
- Aritra Das, BSc student of Physiology worked under the supervision of Dr. Rajesh Gokhale at CSIR-IGIB, New Delhi for two months during the summer, 2013.
- Atreyi Biswas BSc student of Physiology was awarded by the Indian Academy of Sciences, Bangalore, India and went to Dr. Vijayalakshmi Rabindranathan at IISc, Bangalore in 2013.
- Aritra Das, BSc student of Physiology worked under the supervision of Dr. Rajesh Gokhale at CSIR-IGIB, New Delhi for two months during the summer, 2014.
- Debarpan Guhathakurta and Shinjini Chakraborty, BSc students of Physiology interned at IICB in 2014.
- Debisukti Das BSc student of Physiology was awarded IASc-INSA-NASI Summer Research Fellowship in 2014. Fellowship work to be performed under the supervision of Professor Vijayalakshmi Ravindranath of the Centre for Neuroscience, Indian Institute of Science (Bangalore).
- Priyanka Sarkar BSc student of Physiology went to CDRI for summer training in 2015.
- Subhodeep Banerjee, MSc student of Physiology was selected and attended the summer training programme of summer research programme of CSIR-CCMB, Hyderabad, under the supervision of Dr. Utpal Bhadra in 2015.
- Bagisha Maitra MSc student of Physiology was Saha Institute of Nuclear Physics, 2015.
- Manisha Das, Eshita Saha MSc students of Physiology was NICED, 2015.

## Evaluative Report of the Department: Chemistry

- 1. Name of the Department: Chemistry**
- 2. Year of establishment :** 2010 (first established in 1864 as a Department of the erstwhile Presidency College).
- 3. Is the Department part of a School/Faculty of the university? :** Yes, it is under the Faculty of Natural and Mathematical Sciences.
- 4. Names of programmes offered (UG, PG, MPhil, PhD, Integrated Masters; Integrated PhD, DSc, DLitt, etc.) :**
  - BSc (Hons) Chemistry
  - MSc (Chemistry)
  - PhD in Science (Chemistry)
- 5. Interdisciplinary programmes and departments involved:**
  - Department offers six GenEd courses of 24 credits for around 160 students per course to the students of other departments of the University (both Science and Humanities).
  - In undergraduate Biochemistry courses, teachers from Physiology Department are involved in teaching.
  - During the last syllabus revision (2014), important basic elements of Physics, Mathematics, Statistics and Biochemistry have been incorporated in the undergraduate and postgraduate syllabi.
  - Department offers courses at the postgraduate level on Biophysical Chemistry.
  - In the PhD level, collaborative researches are going on with other departments including Physics and Geology, and with other institutes e.g., Bose Institute, IIT Kharagpur, North Bengal University, Jadavpur University, Indian Association for the Cultivation of Science, Kolkata.
- 6. Courses in collaboration with other universities, industries, foreign institutions, etc.: Student Summer Project, PhD Course.**
  - A large number of students from other national and state level institutes carries out summer research projects in this department through IAS, INSPIRE, POCE. Students from this department regularly join other universities/institutes/industries to carry out summer research projects (non-credit course).
  - In the PhD level, collaborative researches are going on with other institutes e.g., Bose Institute, IIT Kharagpur, North Bengal University, Jadavpur University, Indian Association for the Cultivation of Science, Kolkata, IISER-Bhopal.
- 7. Details of programmes discontinued, if any, with reasons:**
  - Undergraduate course in Biochemistry has been discontinued since this has now been merged with B.Sc. (H) course of in the Department of Biosciences of the university. However, in the BSc (Hons.) and MSc courses, a major proportion of Biochemistry, Biophysical, Bioorganic and Bioinorganic Chemistry have been incorporated in the revised syllabi.
- 8. Examination System: Annual/Semester/Trimester/Choice Based Credit System:**
  - Semester with Choice Based Credit System (CBCS) at various levels (Undergraduate, Postgraduate).

**9. Participation of the department in the courses offered by other departments**

Not applicable at this moment.

**10. Number of teaching posts sanctioned, filled and actual (Professors/Associate**

Professors/Asst. Professors/others)

	Sanctioned	Filled	Actual (including CAS & MPS)
Professor	05	02	02
Associate Professors	00	00	00
Asst. Professors	18	08 + 01 (on lien)	08
Others	NA	NA	NA

**11. Faculty profile with name, qualification, designation, area of specialization, experience and research under guidance**

Name	Qualification	Designation	Specialization	No. of Years of Experience	No. of PhD/ MPhil students guided for the last 5 years
Bijan Das	PhD	Professor	Physical Chemistry	26.5 years	PhD – 04 (awarded)
Gandhi K. Kar	PhD	Professor	Organic Chemistry	29 Years	PhD – 02 (awarded) + 01 (to be awarded)
Adity Bose	PhD	Assistant Professor	Inorganic Chemistry	8 Years	–
Anjoy Majhi	PhD	Assistant Professor	Organic Chemistry	3 Years	–
Arnab Halder	PhD	Assistant Professor	Physical Chemistry	11.5 Years	–
Biplab Biswas	PhD	Assistant Professor	Inorganic Chemistry	2 Years	–
Dhruba Prosad Chatterjee	PhD	Assistant Professor	Organic Chemistry	9 Years	–
Koena Ghosh	PhD	Assistant Professor	Organic Chemistry	2 Years	–
Pulak K Ghosh	PhD	Assistant Professor	Physical Chemistry	2 Years	–
Sasikumar Palani	PhD	Assistant Professor	Inorganic Chemistry	3 Years	–

**12. List of senior Visiting Fellows, adjunct faculty, emeritus professors:**

1. Prof. Sanjib Bagchi (UGC Emeritus Fellow)
2. Prof. Sanjib Ghosh (CSIR Emeritus Scientist)

## Presidency University

3. Prof. Uday C. Ghosh (Emeritus - Project/DST)
4. Prof. Mukul Biswas (Emeritus Scientist)

### 13. Percentage of classes taken by temporary faculty – programme-wise information

Programme	Percentage of classes taken by temporary faculty
UG	04
PG	14
PhD	00

### 14. Programme-wise Student Teacher (Full time) Ratio:

- BSc (Hons.) - 13:1;
- MSc - PG - 7:1.

### 15. Number of academic support staff (technical) and administrative staff: sanctioned, filled and actual

- Technical: 03 (filled); Administrative: 03 (filled)

### 16. Research thrust areas as recognized by major funding agencies

- Macromolecular and colloid chemistry.
- Synthetic organic chemistry.
- Spectroscopy of biomolecules.
- Ultrafast spectroscopic study of photophysical processes.
- Synthetic inorganic chemistry.
- Computational and theoretical studies.
- Bio-organic chemistry/ Biochemistry.
- Design of organometallic material having novel optoelectronic property.
- Advanced membrane materials.
- Development of novel protein kinase C modulators.
- Environmental chemistry.

### 17. Number of faculty with ongoing projects from a) national b) international funding agencies and c) Total grants received. Give the names of the funding agencies, project title and grants received project-wise. (full List in Annexure 1)

No. of Faculty Members	Funding Agency	Grants Received (Rs.)
10	UGC	5452700
06	CSIR	4545667
14	DST	25135044
01	West Bengal Public Health	750000

No. of Faculty Members	Funding Agency	Grants Received (Rs.)
11	Faculty Research & Professional Development Fund (FRPDF)	4449598
	Total	40333009

**18. Inter-institutional collaborative projects and associated grants received**

- a) National collaboration                      b) International collaboration

**National Collaborations**

- Prof. Bijan Das with Dr. Chanchal Das, Department of Chemistry, Sikkim Government College, Gangtok, Sikkim
- Prof. Bijan Das with Dr. Sajal Das, Department of Chemistry, North Bengal University, Darjeeling 734 013
- Prof. Bijan Das with Prof. Basudeb Basu, Department of Chemistry, North Bengal University, Darjeeling 734 013
- Prof. Bijan Das with Dr. Soumen Ghosh, Department of Chemistry, Jadavpur University, Kolkata 700 032
- Dr. Arnab Halder with Dr. Saptarshi Mukherjee, Department of Chemistry, IISER Bhopal.
- Dr. Arnab Halder with Dr. Pratik Sen, Department of Chemistry, IIT Kanpur.
- Dr. U.C. Ghosh with Dr. S. Chakrabarti, Department of Applied Geology & Environmental System Management, Presidency University.
- Prof. G. K. Kar with Prof. M. Chakrabarty of Bose Institute.

**International Collaborations**

- Prof. Bijan Das with Dr. Ranjit De, Department of Chemistry, Gwangju Institute of Technology, Republic of Korea.
- Prof. Bijan Das with Dr. Ajaya Bhattarai, M.MAM.C (Tribhuvan University), Biratnagar, Nepal
- Dr. Pulak K. Ghosh with Professor Franco Nori, Quantum Condensed Matter Research Group, Center for Emergent Matter Science, RIKEN, 2-1 Hirosawa, Wako-shi, Saitama 351-0198, Japan
- Dr. Pulak K. Ghosh with Professor Fabio Marchesoni, Department of Physics, Universita' di Camerino, Sezione di Perugia, Italy.
- Dr. Pulak K. Ghosh with Professor Peter Hanggi, Department of Physics, Augsburg University, Germany

**19. Departmental projects funded by DST-FIST; UGC-SAP/CAS, DPE; DBT, ICSSR, AICTE, etc.; total grants received.**

- DST-FIST: Rs. 2,23,00,000/- (2015-20)

**20. Research facility / centre with**

- State recognition and national recognition: with the funding from DST-FIST, DST the department has developed laboratories equipped with Spectrofluorimeter, UV, FTIR, CD spectrometer, HPLC, Osmometer, Lyophilizer, AAS, NMR (to be installed soon). Over the years, these instruments are extensively used by other state and national level institutes.
- international recognition : No

## Presidency University

### 21. Special research laboratories sponsored by / created by industry or corporate bodies : No

### 22. Publications: (provided complete list in Annexure 2)

- Number of papers published in peer reviewed journals (national / international): 148
- Monographs
- Chapters in Books: 2
- Edited Books : 0
- Books with ISBN with details of publishers 1
- Number listed in International Database (For e.g. Web of Science, Scopus,

Humanities International Complete, Dare Database - International Social Sciences Directory, EBSCO host, etc.)

- Citation Index – range / average: <1 to 66; 6
- SNIP
- SJR
- Impact Factor – range / average: 0 to 11.261; 2.83472
- h-index : Average per faculty 11.8 (Annexure )

#### Synopsis of Publications

Publications		2011	2012	2013	2014	2015	Total
Paper (peer-reviewed)	National	1	0	0	0	2	3
	International	28	34	28	31	24	145
Books & Monographs	National						
	International	1	0	1	0	1	3
Articles in magazine/ Newspaper							

### 23. Details of patents and income generated: NIL.

### 24. Areas of consultancy and income generated: NIL

### 25. Faculty selected nationally / internationally to visit other laboratories / institutions / industries in India and abroad

Dr. Pulak K. Ghosh visited the laboratory of Professor Franco Nori, Quantum Condensed Matter Research Group, Center for Emergent Matter Science, RIKEN, 2-1 Hirosawa, Wako-shi, Saitama 351-0198, Japan during November-December, 2015.

### 26. Faculty serving in

- a) National committees b) International committees c) Editorial Boards d) any other (please specify)

#### Prof. Bijan Das

Member, Executive Council, Indian Society for Surface Science & Technology.

Member, Editorial Board, International Journal of Chemical Engineering Research.



Member, Editorial Board, International Journal of Chemistry & Chemical Engineering.

Member, Editorial Board, International Journal of Environmental Engineering and Management.

Member, American Chemical Society, USA.

Member, Indian Association for the Cultivation of Science.

**Prof. Gandhi K. Kar**

Member, Indian Chemical Society

Member, Indian Association for the Cultivation of Science.

**Dr. Adity Bose**

Member, Indian Photobiology Society, Kolkata

Member, Indian Society for Surface Science and Technology, Kolkata

Indian Physical society, IACS, Kolkata

Member, Editorial Board, Journal of Chemistry & Biochemistry.

**27. Faculty recharging strategies** (UGC, ASC, Refresher / orientation programmes, workshops, training programmes and similar programmes).

- The younger faculty members of the department participate regularly in Orientation Programmes/Refresher Courses, Workshops, Training Programmes etc. in other Universities.

**28. Student projects**

- percentage of students who have done in-house projects including inter-departmental projects:
  - 100% UG and PG final year students carry out in-house projects (as part of their curricula) each year.
- percentage of students doing projects in collaboration with other universities / industry / institute:
  - 52 students have completed projects in industry and institutes as summer research programme in last four years. Summer Research Fellowship (Annexure 3) and Inspire and National Scholarships.

**29. Awards / recognitions received at the national and international level by**

- **Faculty**
  - Prof. Bijan Das has been awarded Honorary Membership of the American Chemical Society, USA (2015).
  - Prof. Bijan Das awarded Certificate of Appreciation for Valuable Contribution and Dedicated Service in the Peer Review of Manuscripts Submitted to the American Chemical Society Journals (2011).
  - Dr. Pulak K. Ghosh received Japan Society for the Promotion of Science (JSPS) Postdoctoral Fellowship (2011).
  - Dr. Sasikumar Palani received Alexander von Humboldt postdoctoral fellowship, Germany, (2010-2012).
  - Dr. Krishna Pada Bhabak received Alexander von Humboldt postdoctoral fellowship, Germany, (2010-2012).
  - Dr. Krishna Pada Bhabak Awarded INSPIRE Faculty by Department of Science and Technol., (DST), India (2013).

## Presidency University

- Dr. Biplob Biswas received The Karlsruhe Institute of Technology fellowship for Guest Scientist, Germany (2011).
- **Doctoral / post doctoral fellows**
  - Dr. Satyajit Mondal has been awarded DS Kothari Postdoctoral Fellowship (UGC) Under the supervision of Prof. Bijan Das (2015).
- **Students**

### 2012-13

- 30 UG (Chem. Hons.) students qualified in JAM (IIT Entrance) Examination 2012.
- 3 UG (Chem. Hons.) students have been selected for the integrated Ph.D programme of IISc Bangalore and 2 in JNCASR.
- 5 UG (Chem. Hons) students were also selected for integrated Ph.D Programme at IACS though all of them opted for IIT MSc Programme.
- 6 Postgraduates student have qualified in NET CSIR / UGC / GATE/ LS Examination

### 2013-14

- 30 UG (Chem. Hons.) students qualified in JAM (IIT Entrance) Examination 2013 and TIFR Admission test to join different IIT's and I.I.Sc Bangalore, TIFR, Mumbai, JNCASR, Bangalore, Hyderabad Central University etc for their higher studies.
- 8 PG and 3 UG students have qualified in NET CSIR / UGC / GATE/ LS Examination
- 13 UG students ranked within the top 73 in JAM including an all-India second rank.
- 4 students selected for TIFR integrated PhD programme.
- 8 students selected in the integrated PhD programme (ranked within first 15 including the first rank) of the Hyderabad Central University.
- 3 students selected for the integrated PhD programme of JNCASR
- 3 students selected for the integrated PhD programme of IISER, Kolkata
- 1 student selected for the integrated PhD programme of the Bose Institute, Kolkata.
- 10 (PG and UG) students have qualified in NET Examination.
- 3 PG students have qualified in GATE Examination.

### 2014-15

- Around 20 UG students qualified in JAM examination 2015 with good rank and are eligible for admission to 5-6 top IIT's MSc programme. Five students ranked (all India rank 2, 5, 8, 10, 15) within first 15 while a total of 12 ranked within first 100 in all India level.
- 3 Biochemistry (UG) students qualified in JAM examination 2015
- 3 UG students have been selected for the Integrated Ph.D Programmem at TIFR, Mumbai.
- 2 Biochemistry (UG) students have been selected for the Integrated Ph.D Programmem at IISER, Pune.

- 1 Biochemistry (UG) students have been selected for Masters programme in Hong Kong University.
- 10 PG students qualified in UGC-CSIR-NET Examination.
- 1 PG student selected for the PhD programme of TIFR.
- 1 PG student selected for the PhD programme of IISc.
- 1 UG student has been offered fellowships from three Universities (University of Massachussets, Dartmouth, USA; State University of New York, NY, USA & Tulane University, New Orleans, USA for the Ph.D programme.
- 1 UG student awarded Kishore Vaigyanik Protshan Yojona (KVPY) Fellowship. (Annexure 3)

**30. Seminars/ Conferences/Workshops organized and the source of funding (national / international) with details of outstanding participants, if any. (provide List in annexure)**

- In last four years 34 seminars/conferences/student enrichment programmes have been arranged. At least one national level seminar is arranged every year( Annexure 4).

**31. Code of ethics for research followed by the departments**

- The department is committed to conduct very high quality research and consequently follows International code of ethics set by international journals and books. Hazardous chemicals are disposed of following safe and recommended standard.

**32. Student profile programme-wise:**

Year	Name of the programme	Application received	selected		Pass Percentage (wrto previous year results)	
			Male	Female	M	F
2015	UG	2505	32	14	100%	100%
	PG	800	23	11	100%	100%
2014	UG	3276	26	18	100%	100%
	PG	1005	15	9	100%	100%
	PhD	8	2	2	100%	100%
2013	UG	1537	26	19	100%	100%
	PG	1200	16	18	100%	100%

**33. Diversity of students**

Name of the Programme (refer to question no. 4)	% of Students from the Same University	% of students from other universities within the State	% of students from universities outside the State	% of students From Other countries
UG	NA	NA	NA	NA
PG	6%	94%	0	0
PhD	0%	100%	-	-

## Presidency University

### 34. How many students have cleared Civil Services and Defense Services examinations, NET, SET, GATE and other competitive examinations? Give details category-wise.

- NET/SET/GATE: 37 (Annexure 3) + West Bengal Civil Service: 01

### 35. Student progression (Annexure for indicative list)

	Student progression	Percentage against enrolled
	UG to PG	100%
	PG to MPhil	
	PG to PhD	90-100%
	Employed	
•	Campus selection	About 12% campus recruitment. Rest either pursuing PhD or are employed.
•	Other than campus recruitment	All pass outs are either employed or pursuing higher studies in India and abroad.

### 36. Diversity of staff

Percentage of faculty who are graduates	
of the same university	10%
from other universities within the State	70%
from universities from other States from	20%
universities outside the country	0

### 37. Number of faculty who were awarded MPhil, PhD, DSc and DLitt during the assessment period : NIL

### 38. Present details of departmental infrastructural facilities with regard to

- Library: The Department houses a library having a total of around 1500 text and reference books.
- Internet facilities for staff and students: Internet facility (both LAN and WiFi) is available.
- Total number of class rooms: 08
- Class rooms with ICT facility: WiFi facility is available in all class rooms.
- Students' laboratories: 09
- Research laboratories: 10

### 39. List of doctoral, post-doctoral students and Research Associates

- Currently there are 44 research students at doctoral and postdoctoral programmes along with research students carrying out research as Project Assistants (**Annexure 5**).
  - from the host institution/university : 20%
  - from other institutions/universities : 80%

**40. Number of post graduate students getting financial assistance from the university.**

- Many students receive free studentship, merit-cum-means scholarship, University Research Fellowship.

**41. Was any need assessment exercise undertaken before the development of new programme(s)? If so, highlight the methodology.**

- During revision of syllabi, the external experts are invited and the recommendations are placed before the Board of Studies for ratification. These are then placed before the Governing Council of the University for approval.

**42. Does the department obtain feedback from**

- a. faculty on curriculum as well as teaching-learning-evaluation? If yes, how does the department utilize the feedback?
- b. students on staff, curriculum and teaching-learning-evaluation and how does the department utilize the feedback?
- c. alumni and employers on the programmes offered and how does the department utilize the feedback?
  - The Department receives feedback on syllabi and teaching methodologies from the students, teachers, staff, alumni on a regular basis and modifies its practices depending upon the feedback received.

**43. List the distinguished alumni of the department (maximum 10)**

- The Late Prof. Amarnath Bhaduri, Ex-Director, Indian Institute of Chemical Biology, Kolkata (Bhatnagar Awardee)
- Prof. Siddhartha Roy, Ex-Director, Indian Institute of Chemical Biology, Kolkata (Bhatnagar Awardee)
- Prof. Debasis Mukherjee, Ex-Director, Indian Association for the Cultivation of Science, Kolkata (Bhatnagar Awardee)
- Prof. Kankan Bhattacharyya, Ex-Director, Indian Association for the Cultivation of Science, Kolkata (Bhatnagar Awardee)
- Prof. Deb Sankar Roy, Indian Association for the Cultivation of Science, Kolkata (Bhatnagar Awardee)
- Prof. Bhabatarak Bhattacharyya, Bose Institute (Bhatnagar Awardee)
- Prof. Biman Bagchi, Indian Institute of Science, Bengaluru (Bhatnagar Awardee)
- Prof. Uday Maitra, Indian Institute of Science, Bengaluru (Bhatnagar Awardee)
- Prof. Tushar Chakraborty, Indian Institute of Chemical Technology, Hyderabad (Bhatnagar Awardee)
- Dr. Sumit Bhaduri, Reliance Industries (Bhatnagar Awardee)

(All graduated from the erstwhile Presidency College)

**44. Give details of student enrichment programmes (special lectures / workshops / seminar) involving external experts. (provide List in annexure)**

The Department organizes seminars, lectures etc. throughout the year as a part of the student enrichment programme **(Please see Annexure 4)**.

**45. List the teaching methods adopted by the faculty for different programmes.**

- Classroom lectures (conventional and powerpoint presentations with appropriate teaching aids), seminars, projects, lab works, regular visits of the UG and PG students in the departmental research laboratories along with hands-on research experience with the research groups of the members of the faculty. Interactive classroom teaching is encouraged.

**46. How does the department ensure that programme objectives are constantly met and learning outcomes are monitored?**

- The department constantly monitors the teaching-learning processes by regular teacher-student interactions and class tests. Also the feedback from the students regarding teaching and learning is taken into consideration in order to ensure that the programme objectives are constantly met and learning outcomes are monitored.

**47. Highlight the participation of students and faculty in extension activities.**

- The faculty members and the students participate regularly in various co-curricular and extra-curricular activities. The cultural programmes organized by the students during “Freshers’ Welcome” of the newcomers, “Farewell” of the outgoing students, “Teachers’ Day” Celebration are really of very high standards.

**48. Give details of “beyond syllabus scholarly activities” of the department.**

- The department regularly organizes technical seminars. Students enthusiastically participate in these seminars and take part actively in the discussion sessions. The students are encouraged to go through the scientific research articles published in various international journals. They often deliver lectures on the basis of what they have learnt by reading these articles. Many of them design and carry out simple experiments to verify the published results. During the semester-breaks, a large number of students works in the research groups of the departmental faculty members and gains a first-hand experience of research activities. The third year BSc Chemistry students organize “CHEMI-QUIZ” – an inter-College Quiz Competition in Chemistry every year which help disseminate knowledge of chemistry among the students.

**49. State whether the programme/ department is accredited/ graded by other agencies? If yes, give details. No.**

**50. Briefly highlight the contributions of the department in generating new knowledge, basic or applied.**

- The department has produced many eminent scientists of our country who have served or continue to serve in the capacity of faculty in various universities and institutes in India and abroad. Some of the Indian institutions where the alumni of Presidency served/s includes IITs, IICB, IACS, IISc, IISERs, IICT, JNCASR etc. They contributed/s immensely in generating new knowledge both in basic and applied areas of chemical sciences and related fields. The Bhatnagar Awardees who are the ex-students of Presidency (Prof. Mihir Chowdhury, Prof. Amarnath Bhaduri, Prof. Debasis Mukherjee, Prof. Bhabatarak Bhattacharya, Prof. Biman Bagchi, Prof. Deb Sankar Ray, Prof. Kankan Bhattacharyya, Prof. Siddhartha Roy, Dr. Sumit Bhaduri, Prof. Uday Maitra, Prof. Tushar Chakrabarty to name a few) played a pivotal role in generating as well as in disseminating new knowledge of chemistry, in particular and of science, in general.

**51. Detail five major Strengths, Weaknesses, Opportunities and Challenges (SWOC) of the department.**

**Strengths:** Devoted and knowledgeable teachers; Good research groups; Premier student intake from across the nation; Generous financial support by different funding agencies as well as by the university through Faculty Research & Professional Development (FRPDF) Scheme; Research collaboration with other universities in India and abroad.

**Weaknesses:** The Department is developing research infrastructure to attract majority of our students who qualify in the NET and JAM.

**Opportunities and Challenges:** A great opportunity for the department lies in our desire to have a number of young, enthusiastic and vibrant faculty members, majority of them with extensive postdoctoral research and teaching experience abroad. Immediate challenge is to develop state-of-the-art teaching and research laboratories.

## 52. Future plans of the department.

The principal objective of the department is to provide a premier undergraduate and postgraduate teaching and advanced research experience to the students. In view of this, the future plans of the department include:

- Development of strong collaborative research with various groups of India and abroad.
- Establishment of 2-3 modern Instrument Rooms to house the sophisticated instruments procured/to be procured by the members of the faculty.
- Development of the teaching and research laboratories with modern equipments.
- Development of a Central Computational Facility and a Central Major Equipment Facility for research work.
- Strengthening the Departmental Library.
- Modernisation of the old research laboratories.
- Modernisation of all lecture theatres.
- Establishment of a departmental auditorium (approx. capacity: 200) for organising seminars/conferences.

**Annexure 1**

**List of Research Projects (2011-15)**

Sl. No.	Year of Initiation	Year of Completion	Funding agency	PI	Title	Fund Sanctioned	Fund Received
1	2013	2015	UGC	Dr. Adity Bose	Photophysical Behavior of Some Biologically important phenolic compounds in environments mimicing biological membranes	1,20,000/-	82,500/-
2	2014	2016	UGC	Dr. Adity Bose	Effect of medium in controlling the reaction pattern of potential drug molecules	6,00,000/-	6,00,000/-
3	2015	2018	DST	Dr. Adity Bose	Interactions of model drugs with biologically significant molecules in different microenvironments	26,00,000/-	18,00,000/-
4	2014	2017	DST	Dr. Anjoy Majhi	Development of novel thienopyrimidine for pharmaceutical composition to eliminate human cancers and imaging lead	20,20,000/-	15,70,000/-
5	2014	2016	UGC	Dr. Anjoy Majhi	Development of novel protein kinase C (PKC) modulators for early diagnosis of human cancers and imaging lead	6,00,000/-	6,00,000/-
6	2015	2017	UGC	Dr. Arnab Halder	Spectroscopic study of synthetically modified Graphene Oxide	6,00,000/-	6,00,000/-
7	2011	2015	DST-SERB	Prof. Bijan Das	Interaction between polyelectrolytes and surface active ionic liquids	30,35,800/-	27,09,800/-
8	2015	2018	DST	Dr. Biplab Biswas	Synthesis and Characterization of Polynuclear Chiral Magnets	24,26,000/-	13,75,333/-
9	2015	2017	UGC	Dr. Biplab Biswas	Magneto-structural study on 3d - and 3d - 4f metal complexes	6,00,000/-	6,00,000/-
10	2014	2017	DST	Dr. Dhruba Prosad Chatterjee	Preparation of advanced membrane materials for affinity chromatography	18,90,000/-	15,00,000/-
11	2015	2017	UGC	Dr. Dhruba Prosad Chatterjee	Preparation of CdS nano particles in stimuli responsive polymer templates: An approach for the synthesis of 'smart' Q-particles	6,00,000/-	6,00,000/-
12	2012	2015	DST-SERB	Prof. Gandhi K. Kar	Studies towards the synthesis of biologically active natural and non-natural furoquinones, furo-macrolides and their thiophene analogs	23,00,000/-	19,30,615/-
13	2013	2018	DST-INSPIRE	Dr. Krishna Pada Bhabak	Enhancement of the Anti-cancer Properties of Lipids: Possible Role of Antioxidants towards Cancer	35,00,000/-	14,00,000/-



Sl. No.	Year of Initiation	Year of Completion	Funding agency	PI	Title	Fund Sanctioned	Fund Received
14	2014	2017	DST	Dr. Krishna Pada Bhabak	Design and Synthesis of Novel Fluorescent Substrates for Sphingolipid Metabolizing Enzymes	22,80,000/-	12,50,000/-
15	2014	2016	UGC	Dr. Krishna Pada	Design and Synthesis of Fluorescent Organosulfur Compounds to Study their Anti-cancer Potentials	6,00,000/-	6,00,000/-
16	2014	2017	DST	Dr. Koena Ghosh	Design and Synthesis of chiral NHC ligands for asymmetric reactions	25,40,000/-	12,50,000/-
17	2015	2017	UGC	Dr. Pulak Kumar Ghosh	Study of energy- and charge-transfer dynamics in some natural photosynthetic structures	6,00,000/-	6,00,000/-
18	2015	2018	DST	Dr. Pulak Kumar Ghosh	Investigations of diffusion phenomena of self-propelled Janus particles occurring in confined geometries	29,06,000/-	19,68,666/-
19	2014	2017	DST	Dr. Sasikumar Palani	New Boron-containing polymeric hybrid Materials	23,56,000/-	11,00,000/-
20	2014	2016	UGC	Dr. Sasikumar Palani	Synthesis, Characterization and Properties of New Boron-doped Graphenes	6,00,000/-	6,00,000/-
21	2013	2016	DST	Prof. Sanjib Ghosh	Photoinduced energy transfer/electron transfer in systems consisting of multiple donors and acceptors and stepwise unfolding of multitryptophan proteins.	55,00,000/-	37,60,000/-
22	2012	2015	CSIR	Prof. Sanjib Ghosh	Photophysical aspects and photoinduced energy transfer/ electron transfer in ternary system consisting of two donors and one acceptor	20,02,333/-	16,63,325/-
23	2009	2014	CSIR	Prof. Sanjib Ghosh	Photophysical aspects and docking studies of the interaction of biomolecules with other molecules	4,05,867/-	4,05,867/-
24	2009	2013	CSIR	Prof. Sanjib Ghosh	Photophysical aspects and docking studies of bio-molecules with emphasis on photoinduced energy	11,00,000/-	11,00,000/-
25	2009	2014	CSIR	Prof. Sanjib Ghosh	Time resolved emission studies in protein and peptides at different temperatures.	13,04,600/-	11,14,034/-
26	2009	2013	DST	Prof. Sanjib Ghosh	Photoinduced energy transfer, photophysical aspects, and docking studies of biomolecules and their interaction with other molecules.	56,00,000/-	46,00,000/-

**Presidency University**

Sl. No.	Year of Initiation	Year of Completion	Funding agency	PI	Title	Fund Sanctioned	Fund Received
27	2007	2011	CSIR	Prof. Sanjib Ghosh	Photoinduced electron transfer, energy transfer and related photophysical aspects of some Biomolecules and Supramolecular systems, charge transfer complexes	14,68,000/-	14,68,000/-
28	2010	2013	CSIR	Dr. Uday Ch. Ghosh	Synthesis characterization and evaluation of some polymer nanocomposites based on nanodimensional polyvalent transition metal mixed oxides.	13,36,975/-	13,36,975/-
29	2012	2015	DST	Dr. Uday Ch. Ghosh	Design and validation of arsenic removal water filter using nano structured non toxic synthetic materials: A lab to field nanotechnology transfer programme.	19,46,600/-	19,46,600/-
30	2014	2016	Public Health	Dr. Uday Ch. Ghosh	Design and validation of fluoride removal water filter using nano structured non toxic synthetic materials: A lab to field nanotechnology transfer programme.	15,00,000/-	7,50,000/-
31	2015	2017	UGC	Dr. Uday Ch. Ghosh	Graphene oxide based polyvalent metal oxide nanocomposite: Preparation, Characterisation and efficiency evaluation on Arsenic and Fluoride removal from contaminated water	8,91,200/-	5,70,200/-
32	2012	2016	FRPDF	All faculty members	Faculty Research and Professional Development Fund provided by Presidency University	-	44,49,598/-

## Annexure 2

## List of Publications in papers (peer-reviewed only), Books, Monographs, Last Five Years

## 2011:

1. **Biswas, B.**, Mougél, V., Marinella Mazzanti, J.P., (2011), Base Driven Assembly of Large Uranium Oxo/Hydroxo Clusters *Angew. Chemie., Int. Ed.*, v. 50, p. 5744. This article featured as Back Cover of the journal (Impact Factor : 11.261, Citations: 40).
2. Weyhermüller, T., Wagner R., **Biswas, B.**, and Phalguni Chaudhuri, P., (2011) A non-linear (2,2,2) alkoxo-bridging in a Fe(III) 4O6 corepotentially relevant to iron-tunicates *Inorganica Chimica Acta*, v. 374, p. 140. (Impact Factor: 2.04, Citations: 2).
3. Haldar.I., Kundu. A., **Biswas. M.** and Nayak. A., (2011), Preparation and evaluation of a poly (N-vinylcarbazole) Fe<sub>3</sub>O<sub>4</sub> (PNVCF<sub>3</sub>O<sub>4</sub>) nanocomposite. *Materials Chemistry and Physics*, v. 161, p. 1400-1407 (Impact Factor: 2.259, Citations: 6).
4. Haldar.I., **Biswas. M.** and Nayak.A., (2011), Microstructure, dielectric response and electrical properties of polypyrrole modified (poly N-vinyl carbazole Fe<sub>3</sub>O<sub>4</sub>) nanocomposites. *Synthetic Metals*, v. 161, p. 1400-1407 (Impact Factor : 2.252, Citations: 11).
5. Samanta, S., **Chatterjee D. P.**, and Layek, R. K., (2011), Multifunctional Porous Poly(vinylidene fluoride)-graft-Poly(n-butyl methacrylate) with Enhanced Li<sup>+</sup> ion Conductivity, *Macromol. Chem. Phys.*, v. 212 (2), p. 134-149. (Impact Factor: 2.62 , Citations: 12).
6. Ray, P. S., **Chattopadhyay, G.**, (2011), Facile method for the conversion of Semicarbazones/ Thiosemicarbazones into Azines (Under Microwave Irradiation) and Oxadiazole (by Gridding). *Synth. Commun.* v. 41, p. 2607. (Impact Factor :0.929, Citations: 0).
7. Ray, P. S., **Chattopadhyay, G.**, (2011), Hydrazine-Hydroquinone complexas a efficient solid phase hydrazine Donor: High yield synthesis of Iuminol and isoluminol. *J. Chem. Res.*, v. 326 (Impact Factor : NA, Citations: 0).
8. Guha, C. and **Das, B.**, (2011), Electrical Conductances of Sodium Nitrate and Ammonium Nitrate in 2-Methoxyethanol + Water Mixtures at 298.15, 308.15, 313.15, 318.15, and 323.15 K. *Journal of Molecular Liquids.* v. 160, p. 187. (Impact factor: 2.515 , Citations: 2).
9. Nandi, P. and **Das, B.**, (2011), Electrical Conductances of Sodium Carboxymethylcellulose in Acetonitrile (1) + Water (2) Mixed Solvent Media in the Presence of Sodium Chloride at 308.15 K. *Journal of Chemical & Engineering Data.* v. 56, p. 2870. (Impact factor: 2.037, Citations: 2).
10. Mukherjee, S., **Gangopadhyay, S.**, Basak, Zangrado, S. and Gangopadhyay, P.K., (2011), Synthesis, charecterisation and structures of Ni (II) and Palladium (II) complexes of aromatic thiohydrazides, *J. Coord. Chem*, v. 64, p. 3700 (Impact Factor : 2.012, Citations: 1).
11. **Ghosh, P.**, Shit, A., Chattopadhyay, S., Ray Chaudhuri, J., (2011), A microscopic model for noise induced transport: Heat bath nonlinearly driven by external white noise. *Chaos*, v. 21, p. 013117-013126. (Impact Factor : 1.954, Citations: 2).
12. **Ghosh, P.**, Shit, A., Chattopadhyay, S., Ray Chaudhuri, J., (2011), A semiclassical approach to explore the bistable kinetics of a Brownian particle in a nonequilibrium environment. *J. Stat. Mech.*, doi : 10.1088/1742-5468/2011/02/P002026. (Impact Factor : 2.404, Citations: 1).

## Presidency University

13. Saha Roy, A., Saha, P. Mitra, P., Maity, S., **Ghosh, P.**, (2011) Unsymmetrical diimine chelation to M(II) (M = Zn, Cd, Pd): atropisomerism, pi-pi stacking and photoluminescence, Dalton Trans., v. 40, p. 7375 (Impact Factor : 4.197, Citations: 17).
14. Borromeo, M., Marchesoni F., and **P. K. Ghosh**, (2011), Communication: Driven Brownian Transport in Eccentric Septate Channels, J. Chem. Phys v.134, p. 051101. (Impact Factor: 2.952, Citations: 35).
15. **Ghosh, P. K.**, Smirnov, A. Yu., and Nori, F., (2011), Quantum effects in energy and charge transfer in an artificial photosynthetic complex, J. Chem. Phys, v. 134, p. 244103. (Impact Factor: 2.952 , Citations: 28).
16. **Ghosh, P. K.**, Glavey, R., Marchesoni, F., Savel'ev S. E., and Nori, F., (2011), Geometric stochastic resonance in a double cavity, Phys. Rev. E, v. 84, p. 011109. (Impact Factor: 2.288, Citation: 20).
17. **Ghosh, P. K.**, Li M. S., and Bag, B. C., (2011) Periodic force induced stabilization or destabilization of the denature state of a protein, J. Chem. Phys., v. 135, p. 114101. (Impact Factor: 2.952 , Citation: 04).
18. **Ghosh, P. K.**, Smirnov, A. Yu., and Nori, F., (2011), Artificial photosynthetic reaction centers coupled to light-harvesting antennas, Phys. Rev. E, v. 84, p. 061138. (Impact Factor: 2.288, Citation: 11).
19. Gupta, K., Bhattacharyya, S., Mukhopaddhay, A, Biswas, H.S., Datta, J., Ray, N. R. and **Ghosh U.C.**, (2011), Ceria associated manganese oxide nano particle: Synthesis, characterization and arsenic (V) sorption behavior. Chemical Engineering Journal, v. 172, p. 219-229 (Impact Factor : 4.321, Citations: 0).
20. Debnath, S., Nandi, D. and **Ghosh, U. C.**, (2011), Adsorption desorption behavior of cadmium(II) and copper(II) on the surface of nanoparticle agglomerates of hydrous titanium (IV) oxide. Journal of Chemical & Engineering Data, v. 56, p. 30213028. (Impact Factor : 2.037, Citations: 9).
21. Debnath, S. and **Ghosh, U. C.**, (2011), Equilibrium modeling of single and binary adsorption of Cd(II) and Cu(II) onto agglomerated nano structured titanium (IV) oxide. Desalination, v. 273, p. 330342. (Impact Factor : 1.9, Citations: 28).
22. Basu, T. and **Ghosh, U.C.**, (2011), Influence of groundwater occurring ions on the kinetics of As(III) adsorption reaction with synthetic nanostructured Fe(III) Cr(III) mixed oxide., Desalination, v. 266, p. 2532 (Impact Factor : 3.756, Citations: 0).
23. Basu, T. and **Ghosh, U. C.**, (2011), Arsenic (III) removal performances in the absence/presence of groundwater occurring ions of agglomerated Fe(III)-Al(III) mixed oxide nanoparticles. Journal of Industrial & Engineering Chemistry, 17, 834844. (Impact Factor : 3.512, Citations: 10).
24. Das R, Shaik, F. H., **Kar G. K.**, (2011), Short and general method for the synthesis of 2-halocyclo- alk-1-enecarboxylic esters from 2-halocycloalk-1-enecarbaldehyde. Indian J. Chem., v. 50B, p. 299-303. (Impact factor: 0.387, Citations: 0).
25. Das, J., Pany, S., and **Majhi, A.**, (2011), Chemical Modifications of Resveratrol for Improved Protein Kinase C alpha Activity. Bioorganic and Medicinal Chemistry 19, 5321-5333. (Impact factor: 2.793, Citation: 15).
26. Das, J., Pany, S., Panchal, S., **Majhi, A.**, and Rahman, G. M., (2011), Binding of isoxazole and pyrazole derivatives of curcumin with the activator binding domain of novel protein kinase C. Bioorganic and Medicinal Chemistry, v. 19, p. 6196-6202. (Impact factor 2.793, Citation: 11).
27. Holla, H., Yallamalla, S., **Majhi, A.**, Gannoju, S., Balasubramanian, S., Arepalli, S. K., Janapala, V. R., and Das, B., (2011), Novel cytotoxic constituents of Orthosiphon diffuses. Tetrahedron Letters, v. 52, p. 49-52. (Impact Factor: 4.197; Citation: 05).
28. Maity, D., Chattopadhyay. S., Ghosh. A. Drew, M.G.B. and **Mukhopadhyay, G. C.**, (2011), Synthesis,

Characterization and X-ray crystal structures of a mono- and a penta-nuclear Ni(II) complex with oxymeto Schiff base ligands. *Inorg. Chim. Acta.*, v. 365, p. 25-30 (Impact Factor : 2.046, Citations: 0).

29. Giri, S., Maity, D., Godsell, J. F., **Mukhopadhyay, G.**, Roy, S., Saha, S.K., and Ghosh, A., (2011) A new tetra nuclear copper (II) complex with oxymet bridges : structure, magnetic properties and DFT study. *Inorg. Chim. Acta*, v. 377, p. 99. (Impact Factor : 2.046, Citations: 0).

## 2012:

1. Kedia, N., Sarkar, A., Purkayastha, P. and **Bagchi, S.**, (2012), Ketocyanin dyes as sensors for practical and pH of a medium. *Acta A*, v. 95, p. 59. (Impact factor 2.35, Citations: 7).
2. Sarkar, A., Kedia, N., Purkayastha, P. and **Bagchi, S.**, (2012), Photophysics of two structurally similar dyes containing substituted amino as donor and carbonyl as acceptor group. *Lumin.*, v. 132, p. 2345. (Impact factor 1.518, Citations: 4).
3. Sardar, S., Srikant, K., Mandal, P. and **Bagchi, S.**, (2012), Interaction of alkali, alkaline earth and transition metal ions with a ketocyanine dye: A comparative electrochromic spectroscopic study. *Spectrochim. Acta A*, v. 99, p. 3745. (Impact factor 2.35, Citations: 2).
4. Camp, C., Guidal, V., **Biswas, B.**, Pécaut, J., Dubois L., and Mazzanti, M., (2012) , Multielectron Redox Chemistry of Lanthanide Ions Supported by Tetradentate Schiff Bases, *Chemical Science*, v. 3, p. 2433. (Impact Factor: 9.211 , Citations: 0).
5. Camp, C., Guidal, V., **Biswas, B.**, Pécaut, J., Dubois L., and Mazzanti, M. (2012) Inside Cover: Multielectron Redox Chemistry of Lanthanide Ions Supported by Tetradentate Schiff Bases *Chemical Science*, v. 3, p. 2398. (Impact Factor: 9.211, Citations: 12)
6. Haldar. I., **Biswas. M.**, Nayak. A. and Ray. S.S., 2012, Morphological, Dielectric and Electrical Conductivity Characteristics of Clay-Containing Nanohybrids of Poly (N-vinyl carbazole) and Polypyrrole. *J. Nanosci. Nanotechnol.*, v. 12, p. 7841-7848. (Impact Factor: 1.56, Citations: 4)
7. Haldar. I., **Biswas. M.** and Nayak. A., (2012), Preparation and evaluation of microstructure, dielectric and conductivity (Ac/Dc) characteristics of a polyaniline/poly N-vinyl carbazole/ Fe<sub>3</sub>O<sub>4</sub> nanocomposite. *J. Polym. Res.*, v. 19, p. 1-9. (Impact Factor: 1.92, Citations: 4 )
8. Haldar. I., **Biswas. M.**, Nayak. A. and Ray. S.S., (2012), Some Observations on Microstructure, Dielectric Response and Ac/ Dc Conductivity Characteristics of a Polyaniline- Montmorillonite Clay Hybrid. *J. Nanosci. Nanotechnol.*, v. 12, p. 7841-7848. (Impact Factor: 1.556, Citations: 0).
9. Chatterjee, A., **Das, B.** and Das, C., (2012), Polyion-counterion interaction behavior for sodium carboxymethylcellulose in methanol-water mixed solvent media. *Carbohydrate Polymers*, v. 87, p. 1144-1152. (Impact Factor: 3.463, Citations: 4).
10. Bhattarai, A. and **Das, B.**, (2012), Solvodynamic properties of sodium polystyrene-sulfonate in methanol-water mixed solvent media in absence and in the presence of a salt using viscometric method. *Macromol. Symp.*, v. 315, p. 52-59. (Impact Factor: 1, Citations: 3).
11. Gupta, S., Chatterjee, A., Das, S., Basu, B. and **Das, B.**, 2012, Electrical conductances of 1-butyl-3-propylimidazolium bromide and 1-butyl-3-propyl- benzimidazolium bromide in water, methanol, and acetonitrile at (308, 313, and 318) K at 0.1 MPa. *J. Chem. Eng. Data*, v. 58, p. 1. (Impact Factor: 2.04, Citations: 4).
12. Nandi D., Talukdar, A., Ghosh, U. C., De, A., Bhunia, S. and **Ghosh, A. K.**, (2012), Reduced Graphene Oxide/

## Presidency University

- Ethylene Vinyl Acetate Co-polymer Composite with Improved Thermal Stability and Flame Retardancy. *Journal of Polymer Materials*, v. 29, p. 401- 411. (Impact Factor: 0.319, Citations: 0).
13. **Ghosh, P.**, Chattopadhyay, S. and Ray Chaudhuri, J., (2012), Enhancement of current commensurate with mutual noise-noise correlation in a symmetric periodic substrate: The benefits of noise and nonlinearity. *Chem. Phys.*, v. 402, p. 48-55. (Impact Factor: 1.65, Citations: 2).
  14. **Ghosh, P. K.**, Hänggi, P., Marchesoni, S., Martens, F., Nori, F., Schimansky-Geier L., and Schmid, G., (2012), Driven Brownian transport through arrays of symmetric obstacles, *Phys. Rev. E*, v. 85, p. 011101. (Impact Factor: 2.228, Citations 30).
  15. **Ghosh P. K.**, and Marchesoni, F., (2012), Particle transport through deformable pore geometries (letters to the editor/note), *J. Chem. Phys.* v.136, p. 116101. (Impact Factor: 2.952, Citations: 09).
  16. **Ghosh, P. K.**, Hänggi, P., Marchesoni, F., Nori, F., and Schmid, G., (2012), Detectable inertial effects on Brownian transport through narrow pores, *Europhys Letts.* v. 98, p. 5002. (Impact Factor: 2.095, Citations: 21).
  17. BoSi, L., **Ghosh, P. K.**, and Marchesoni, F., (2012), Analytical estimates of free Brownian diffusion in a corrugated narrow channel, *J. Chem. Phys.*, v. 137, p. 174110. (Impact Factor: 2.952, Citations: 12).
  18. **Ghosh, P. K.**, Hänggi, P., Marchesoni, F., Nori, F., and Schmid, G., (2012), Brownian transport in corrugated channels with inertia, *Phys. Rev. E*, v. 86, p. 021112. (Impact Factor: 2.228, Citations: 33).
  19. Abtab, Sk. Md. T., Audhya, A., Kundu, N., Samanta, S. K., Saha Sardar, P., **Ghosh, S.** and Chaudhury, M., (2012), Tetranuclear homo- (ZnII4 and CdII4) and hetero-metal (ZnII2TbIII2 and CdII2TbIII2) complexes with a pair of carboxylate ligands in a rare  $\eta^2:\eta^2:\mu_4$ -bridging mode: syntheses, structures and emission properties. *Dalton Trans.*, v. 42, p. 5. (Impact factor: 4.197, Citations: 0).
  20. Ghosh, R., Mukherjee, M., Chattopadhyay, K. and **Ghosh, S.**, (2012), Unusual Optical Resolution of All Four Tryptophan Residues in MPT63 Protein by Phosphorescence Spectroscopy: Assignment and Significance. *J. Phys Chem. B*, v. 116, p. 12489–12500. (Impact factor: 3.3, Citations: 7).
  21. Ghorai, S. K., Samanta, S., Mukherjee, M. and **Ghosh, S.**, (2012), Protein Mediated Efficient Synergistic “Antenna Effect” in a Ternary System in Aqueous Medium. *J. Phys Chem. A*, v. 112, p. 8303-8312. (Impact factor: 2.69, Citations: 4).
  22. Mukherjee, M., Saha Sardar, P., Ghorai, S. K., Samanta, S., Dasgupta, S. and **Ghosh, S.**, (2012), Interaction of Multitryptophan Protein with Drug: An Insight into the Binding Mechanism and the Binding Domain by Time Resolved Emission, Anisotropy, Phosphorescence and Docking. *J. Photochem. Photobiol. B; Biology*, v. 115, p. 93–104. (Impact factor: 2.96, Citations: 0).
  23. Roy, D., Dutta, S., Maity, S. S., **Ghosh, S.**, Ghosh, K. S., and Dasgupta, S., (2012), Spectroscopic and Docking Studies of the Binding of Two Stereoisomeric Antioxidant Catechins to Serum Albumins. *J. Lumin.*, v. 132, p. 1364–1375. (Impact factor: 2.76, Citations: 35).
  24. Nandi, D., Gupta, K. Ghosh, A. K., De, A. and **Ghosh, U. C.**, (2012), Manganese-incorporated iron(III) oxide-graphene magnetic nanocomposite: synthesis, characterization, and application for the arsenic(III)-sorption from aqueous solution. *J. Nanopart. Res.*, v. 14, p. 1272. (Impact factor 2.184, Citations: 19).
  25. Nandi, D., Ghosh, A. K., Gupta, K., De, A., Sen, P., Dutta Chowdhury, A. and **Ghosh, U. C.**, (2012), Polypyrrole-titanium (IV) doped iron(III) oxide nanocomposites: Synthesis, characterization with tunable electrical and electrochemical properties. *Mate. Res. Bull.*, v. 47, p. 2095–2103. (Impact factor 2.288, Citations: 15).
  26. Gupta, K., Bhattacharya, S., Nandi, D., Dhar, A., Maity, A., Mukhopadhyay, A., Chattopadhyay, D., Ray, N. R., Sen, P. and **Ghosh, U. C.**, (2012), Arsenic(III) Sorption on Nanostructured Cerium Incorporated Manganese

- Oxide (NCMO): A Physical Insight to the Mechanistic Pathway. *J. Colloid Interface Sci.*, v. 377, p. 269–276. (Impact Factor 3.368, Citations: 10).
27. Bhattacharya, S., Gupta, K., Debnath, S., **Ghosh, U. C.**, Chattopadhyay, D. and Mukhopadhyay, A., (2012), Arsenic Bioaccumulation in Rice and Edible Plants and Subsequent Transmission through Food Chain in Bengal Basin: A Review of the Perspectives for Environmental Health. *Toxicological & Environmental Chemistry.*, v. 94(3), p. 421-441. (Impact Factor: 0.825, Citations: 23).
  28. Basu, T., Gupta, K. and **Ghosh, U. C.**, (2012), Performances of As(V) Adsorption of Synthetic Iron(III)-Aluminium(III) mixed oxide in the Presence of of Some Groundwater Occurring Ions. *Chem. Eng. J.*, v. 183, p. 303–314. (Impact factor 4.321, Citations: 16).
  29. Patra, P., **Kar, G. K.**, Sarkar, A. K., Ray, J. K., Dasgupta, T., Ghosh, M. and Bhattacharya, S., (2012), N-Aryl modification in  $\gamma$ -lactam: Design and synthesis of novel monocyclic  $\gamma$ -lactam derivatives as inhibitor for bacterial propagation. *Synthetic Communications*, v.42, p. 3031-3041. (Impact factor: 0.929, Citations: 1).
  30. Samanta, K., **Kar, G. K.** and Sarkar, A. K., (2012), Intramolecular gold(III) catalysed Diels-Alder reaction of 1-(2-furyl)-hex-1-en-5-yn-3-ol derivatives: A short and generalized route for the synthesis of hydroxyphenanthrene derivatives. *Tetrahedron Lett.*, v. 53, p. 1376-1379. (Impact Factor: 4.197, Citations: 8).
  31. Samanta, K., **Kar, G. K.** and Sarkar, A. K., (2012), Studies towards the synthesis of Chrysen-6-ol and Benzo[c]phenanthren-5-ol derivatives: Usual and unusual observations. *Polycyclic Aromatic Compounds*, v.32, p. 515-530. (Impact factor: 1.023, Citations: 1).
  32. Pany, S., **Majhi, A.**, and Das, J., (2012), PKC Activation by Resveratrol Derivatives with unsaturated Aliphatic Chain. *PLoS One*. 7(12): e52888; doi: 10.1371/journal.pone.0052888. (Impact factor: 3.23; Citation: 06 )
  33. Ghosh, G. and **Mandal, D. K.**, (2012), Differing structural characteristics of molten globule intermediate of peanut lectin in urea and guanidine-HCl. *Int. J. Biol. Macromol.*, v. 51, p. 188-195. (Impact factor: 2.858, Citations: 4)
  34. **Mandal, D. K.**, (2012), A simple and novel approach to delineating stereochemistry of electrocyclic reactions. *J. Chem. Educ.*, v.89, p. 1041-1043. (Impact factor: 1.06, Citations: 0).

### 2013:

1. Das, M., Sardar, S. and **Bagchi, S.**, 2012, Electronic spectrum and (hyper)polarizabilities of ketocyanin dye complex with metal ions. *J. Mol. Structure*, v. 1033, p. 236. (Impact Factor 1.6, Citations: 0).
2. Mora, E., Leonor, M., **Biswas, B.**, Camp, C., Santos, I. C., Pécaut, J., Cruz, A., Carretas, J. M., Marçalo, J., and Mazzanti, M., (2013), Diamine Bis(phenolate) as Supporting Ligands in Organoactinide(IV) Chemistry. Synthesis, Structural Characterization and Reactivity of Stable Dialkyl Derivatives Organometallics, v. 32, p. 1409. (Impact factor: 4.126, Citations: 13).
3. **Bhabak, K. P.**, Bhowmick, D., Mughesh, G., (2013), Synthetic glutathione peroxidase mimics: Effect of nucleophilicity of the aryl thiol cofactor on the antioxidant activity. *Ind. J. Chem. Avol.* 52A, p. 1019-1025. (Impact factor: 0.79, Citations: 2).
4. **Bhabak, K. P.**, Kleuser, B., Huwiler, A., Arenz, C., (2013), Effective Inhibition of Acid and Neutral Ceramidases by Novel B-13 and LCL-464 Analogues. *Bioorg. Med. Chem.* vol. 21, p. 874-882 (Impact factor: 2.90, Citations: 11).
5. **Bhabak, K. P.**, Hauser, A., Redmer, S., S Banhart, D Heuer and C Arenz, 2013, Development of a Novel FRET Probe for the Real-Time Determination of Ceramidase Activity. *Chem Bio Chem*, v. 14, p. 1049-1052. (Impact factor: 3.74, Citations: 11).

## Presidency University

6. Das, S., **Chatterjee D.P.**, Samanta, S. and Nandi, A. K., (2013), A Dual Responsive Water Soluble Polythiophene Graft Copolymer with Logic Operation and Nitroaromatic Sensing. *RSC Adv.*, v. 3, p. 17540. (Impact factor: 3.84, Citations: 3).
7. Layek, R. K., Kuila, A., **Chatterjee, D.P.**, and Nandi A. K., (2013), Amphiphilic poly (N-vinyl pyrrolidone) grafted graphene by reversible addition and fragmentation polymerization and the reinforcement of poly(vinylacetate) films. *J. Mater. Chem. A*, v. 1, p. 10863. (Impact Factor: 7.443, Citations: 10).
8. Chatterjee, A. and **Das, B.**, (2013), Radii of Gyration of Sodium Carboxymethylcellulose in Aqueous and Mixed Solvent Media from Viscosity Measurement. *Carbohydrate Polymers*, v. 98, p. 1297. (Impact Factor: 4.074, Citations: 2).
9. Gupta, S, Chatterjee, A., Das, S., Basu, B. and **Das, B.**, (2013), Electrical Conductances of 1-Butyl-3-propylimidazolium Bromide and 1-Butyl-3-propylbenzimidazolium Bromide in Water, Methanol, and Acetonitrile at 308, 313, and 318 K at 0.1 MPa. *J. Chem. Eng. Data*, vol. 58, p. 1-6. (Impact Factor: 2.04, Citations: 4).
10. Sharma, R., Das, C., Dahal, S. and **Das, B.**, (2013), Polyion-Counterion Interactions in Sodium Carboxy methyl cellulose – Ethylene Glycol – Water Ternary Solutions. *Carbohydrate Polymers*, v. 92, p.1546. (Impact Factor: 4.074, Citations: 0).
11. Wu, H., Downs, D., **Ghosh, K.**, Ghosh, A. K., Staib, P., Monod, M. and Tang, J., (2013), Candida albicans secreted proteases 4-6 induce apoptosis of epithelial cells by a novel ‘Trojan Horse Mechanism. *The FASEB Journal*, v. 27, p. 2132-2144. (Impact factor: 5.04, Citation: 14).
12. Ghorai, M. K., **Ghosh, K.**, Yadav, A. K., Nanaji, Y., Haldar, S. and Sayyid, M., (2013), Memory of Chirality (MOC) concept in imino-aldol reaction: Enantioselective synthesis of  $\alpha$ , diamino esters and aziridines. *Journal of Organic Chemistry*, v. 78, p.2311-2326 (Impact Factor: 4.72, Citation: 10).
13. **Ghosh, P. K.**, Misko, V. R., Marchesoni, F. and Nori, F., (2013), Self-propelled Janus Particles in a Ratchet: Numerical simulations, *Physical Review Letters*, v. 110, p. 268301. (Impact Factor: 7.512 Citation: 64).
14. Chaudhuri, S., Patra, S.C., Saha, P., Saha Roy, A., Maity, S., Bera, S., Saha Sardar, P., **Ghosh, S.** Weyhermüller and Ghosh, P., (2013), Zinc(II), iron(II/III) and ruthenium(II) complexes of o-phenylenediamine derivatives: oxidative dehydrogenation and photoluminescence. *Dalton Trans.*, v. 42, p. 15028. (Impact Factor: 4.197, Citations: 1).
15. Kundu, S., Maity, S. Saha Sardar, P., **Ghosh, S.**, and Ghosh, P., (2013), Mono- and di-nuclear photoluminescent complexes of zinc(II), cadmium(II) and mercury(II) of a chiral diimine ligand. *Dalton Trans.*, v. 42, p. 13026. (Impact Factor: 4.197, Citations: 2).
16. Samanta, S., Ghorai, S. K. and **Ghosh, S.**, (2013), Efficient antenna effect in the complex of (+) Catechin and Tb(III) lodged inside the nano cavity of  $\alpha$ -cyclodextrine. *J. Photochem. Photobiol. A Chemistry*, v. 252, p. 145-151. (Impact Factor: 2.5, Citations: 0).
17. Roy, A., Mukherjee, M., Mukhopadhyay, S., Maity, S. S., **Ghosh, S.** and Chattopadhyay, D., (2013), Characterisation of the Chandipura Virus Leader RNA – Phosphoprotein interaction using single Tryptophan Mutants and Its Detection in Viral Infected Cells, *Biochimie*, v. 95 (2), p. 180-194. (Impact Factor: 3.022, Citations: 5).
18. Mukherjee, M., Saha Sardar, P., Ghorai, S.K., Samanta, S.K., Singha Roy, A., Dasgupta, S. and **Ghosh, S.**, (2013), A Comparative Study of Interaction of Tetracycline with Several Proteins Using Time Resolved Anisotropy, Phosphorescence, Docking and FRET. *PLoS ONE*, v. 8, p. 60940. (Impact Factor: , Citations: 0).



19. Ghorai, S.K., Samanta, S. K. Mukherjee, M., Saha Sardar, P. and **Ghosh, S.**, (2013), Tuning of “antenna effect” of Eu(III) in ternary systems in aqueous medium through protein binding. *Inorg. Chem.*, v. 52, p. 1476. (Impact Factor: 4.762, Citations: 9).
20. Nandi, D., Gupta, K., Ghosh, A. K., De, A., Ray, N. R. and **Ghosh U. C.**, (2013), Thermally stable polypyrrole-Mn doped Fe(III) oxide nanocomposite sandwiched in graphene layer: synthesis, characterization with tunable electrical conductivity. *Chem. Eng. J.*, v. 220, p. 107. (Impact Factor 3.461, Citations: 6).
21. Nandi, D., Basu, T., Debnath, S., Ghosh, A. K., De, A. and **Ghosh, U. C.**, (2013), Mechanistic Insight for the Sorption of Cd(II) and Cu(II) from Aqueous Solution on Magnetic Mn-Doped Fe(III) Oxide Nanoparticle Implanted Graphene. *Journal of Chemical and Engineering Data*, v. 58(10), p. 2809-2818. (Impact factor 2.1, Citations: 7).
22. Basu, T., Nandi, D., Sen, P. and **Ghosh, U. C.**, (2013), Equilibrium modeling of As(III,V) sorption in the absence/presence of some groundwater occurring ions by iron(III)–cerium(IV) oxide nanoparticle agglomerates: A mechanistic approach of surface interaction. *Chemical Engineering Journal*, v. 228, p. 665-678. (Impact factor 3.461, Citations: 11).
23. Basu, T. and **Ghosh, U. C.**, (2013), Nano-structured iron(III)-cerium(IV) mixed oxide: synthesis, characterization and arsenic sorption kinetics in the presence of co-existing ions aiming to apply for high arsenic groundwater treatment. *Applied Surface Science*, v. 283, p. 471–481. (Impact factor 2.2, Citations: 15).
24. Bhattacharya, S., Ganguli, A., Mukhopadhyay, A., **Ghosh, U. C.** and Chattopadhyay, D. J., (2013), Impacts of genetically modified foods on environment, economy and health: A comprehensive review. *International Journal of Environmental Biology*, v. 3, p. 64-70. (Impact factor: 0.684, Citations: 0).
25. Bhattacharya, S., Guha, G., Chattopadhyay, D. J., Mukhopadhyay, A., Dasgupta, P. K., Sengupta, M. K. and **Ghosh, U. C.**, (2013), Co-deposition and distribution of arsenic and oxidizable organic carbon in the sedimentary basin of West Bengal, India. *Journal of Analytical Science and Technology*, v. 4,p.11-16. (Impact Factor: NA, Citations: 0).
26. Samanta, K., Sarkar, A. K. and **Kar, G. K.**, (2013), Pyrolysis of calcium salt of alkoxybenzoic acids fails to produce diarylketones: An unusual observation. *Synthetic Communications*, v. 43, p. 384.(Impact Factor: 1.058, Citations: 0).
27. Rakshit, M., Kundu, T., **Kar, G. K.** and Chakrabarty, M., 2013, An efficient, general, synthesis of 2-substituted 2H,6H-pyrrolo[3,2-e]indoles involving one-pot Sonogashira coupling and cyclisation. *Monatsh Chem.*, v. 144(5), p. 717-724. (Impact Factor: 1.532, Citations: 0).
28. Molla, A. R. and **Mandal, D. K.**, (2013), Trifluoroethanol-induced conformational change of tetrameric and monomeric soybean agglutinin: Role of structural organization and implication for protein folding and stability. *Biochimie*, v. 95(2), p. 204-14. (Impact Factor: 1.532, Citations: 5).

#### 2014:

1. Kedia, N., Ghosh Ray, S., De, P. and **Bagchi, S.**, (2014), Synthesis of polymer bearing several coumarin dyes along the side-chain and study of its fluorescence in pure and binary solvent mixtures as well as aqueous surfactant solutions. *J. Phys. Chem. B.*, v. 118, p. 4683. (Impact Factor: 3.302, Citations: 0).
2. Kedia, N., Sarkar, A., Purkayastha, P. and **Bagchi, S.**, (2014), An electronic spectroscopic study of micellisation of surfactants and solvation of homomicelles formed by cationic and anionic surfactants using a solvatochromic electron donor acceptor dye. *Spectrochim. Acta A.*, v. 131, p. 398. (Impact Factor: 2.353, Citations: 1).

## Presidency University

3. Sarkar, A., Kedia, N., Purkayastha, P. and **Bagchi, S.**, (2014), A structure dependent confinement of solvatochromic donor-acceptor dyes in cyclodextrin nanocavity: A spectroscopic insight. *J. Mol. Struct.*, v. 1068, p. 228. (Impact Factor: 1.60, Citations: 0).
4. Kedia, N., Sarkar, A., Purkayastha, P. and **Bagchi, S.**, (2014), Probing aggregation and encapsulation behaviour of structurally akin ketocyanine dyes in aqueous media containing  $\beta$ -cyclodextrin: a spectroscopic analysis. *J. Mol. Liq.*, v. 195, p. 259. (Impact Factor: 2.515, Citations: 3).
5. Sarkar, A., Kedia, N. and **Bagchi, S.**, (2014), A novel water soluble solvatochromic probe as a micropolarity reporter for homogeneous and microheterogeneous media. *J. Lumin.*, v. 151, p. 111. (Impact Factor: 2.719, Citations: 2).
6. Sarkar, A., Kedia, N., Purkayastha, P. and **Bagchi, S.**, (2014), UV-Vis spectral investigation of photophysical properties of a solvatochromic electron donor/acceptor dye within a reverse micelle domain. *Chem. Phys. Lett.*, v. 592, p. 138. (Impact Factor: 1.897, Citations: 1).
7. Sardar, S.K., Mandal, P.K. and **Bagchi, S.**, (2014), Electronic spectral study of donor – acceptor dyes in ground and excited state with a metal ion. *J. Lumin.*, v. 145, p. 25. (Impact Factor: 2.719, Citations: 0).
8. **Bose, A.** and Basu, S., (2014), Effect of phosphate group in switching off electron transfer in different media”, *J. Mol. Liq.*, v. 191 p 92-99 (Impact Factor: 2.51, Citations: 0).
9. Kuila, A., Chatterjee, D.P., Layek, R. K. and Nandi, A. K.,(2014), Coupled atom transfer radical coupling and atom transfer radical polymerization approach for controlled grafting from poly(vinylidene fluoride) backbone, *J. Polym. Sci. Part A, Polym. Chem.*, v. 7, p. 995. (Impact Factor: 3.113 , Citations: 5).
10. Das, S., **Chatterjee, D.P.**, and Nandi, A. K., (2014), Supramolecular Assembly of Polythiophene-g-polymethacrylic acid Doped Polyaniline with Interesting Morphological and Opto-electronic Properties. *J. Mater. Chem. A*, v. 2, p. 12031. (Impact Factor: 7.443, Citations: 2).
11. Das, C., and **Das, B.**, (2014), Transport, and Thermodynamic Investigations on Sodium Polystyrenesulfonate in Ethylene Glycol-Water Media. *J. Chem. Thermodynamics*, v. 68, p. 293. (Impact Factor: 2.423, Citations: 1).
12. Guha, C. and **Das, B.** (2014), Ion-association and Solvation Behavior of Ammonium and Potassium Thiocyanates in 2-Methoxyethanol + Water Mixed Solvent Media at Different Temperatures. *J. Mol. Liq.*, v. 193, p. 132. (Impact Factor: 2.083, Citations: 1).
13. De, R. and **Das, B.** (2014), Coiling/uncoiling Behavior of Sodium Polystyrenesulfonate in 2-Ethoxyethanol–Water Mixed Solvent Media as Probed by Viscometry. *Polymer International*, v. 63(11), p. 1959-1964. (Impact Factor: 2.41, Citations: 1).
14. Das, B., Ray, D. and De, R. (2014), Influence of Sodium Carboxymethylcellulose on the Aggregation Behavior of aqueous 1-Hexadecyl-3-methylimidazolium Chloride Solutions. *Carbohydrate Polymers*, v. 113, p. 208. (Impact Factor: 3.916, Citations: 0).
15. Ghosh, D., Biswas, S., **Ghosh, K.** and Basak, A., (2014), Garratt–Braverman cyclization on basic alumina: a green protocol with improved selectivity. *Tetrahedron Letters*, 55, 3934-3937 (Impact Factor: 2.4, Citation: 1).
16. Li, Y., **Ghosh, P. K.**, Marchesoni, F. and Li, B., (2014), Manipulating chiral microswimmers in a channel. *Phys. Rev. E*, v. 90, p. 062301. (Impact Factor: 2.228 , Citation: 4).
17. Ao, X., **Ghosh, P. K.**, Li, Y., Schmid, G., Hänggi, P. and Marchesoni, F., (2014), Active Brownian motion in a narrow channel. *Eur. Phys. J. Special Topics*, v. 223, p. 1. (Impact Factor: 1.399 , Citation: 8).

18. **Ghosh, P. K.**, (2014), Communication: Escape kinetics of self-propelled Janus particles from a cavity: Numerical simulations. *J. Chem. Phys.*, v. 141, p. 061102. (Impact Factor: 2.952, Citation: 6).
19. **Ghosh, P. K.**, Hänggi, P., Marchesoni, F. and Nori, F., (2014), Giant negative mobility of Janus particles in a corrugated channel. *Physical Review E*, v. 89, p. 062115. (Impact Factor: 2.228, Citation: 13).
20. Chakraborty, P., Adhikary, J., Samanta, S., Escudero, D., Castro, A.C., Swart M., **Ghosh, S.**, Bauza, A., Frontera, A., Zangrando, E. and Das, D., (2014), Combined Experimental and Theoretical Investigation of Ligand and Anion Controlled Complex Formation with Unprecedented Structural Features and Photoluminescence Properties of Zinc(II) Complexes. *Crystal Growth & Design*, v. 14 (8), p. 4111-4123. (Impact Factor: 4.89 , Citation: 3).
21. Samanta, S.K., Towsif Abtab, Sk. Md., Saha Sardar, P., Sanyal, S., Chaudhury, M. and **Ghosh, S.**, (2014), Role of Triplet States of Two Different Ligands in the Sensitized emission of LnIII (EuIII, TbIII) in d-f Hybrid Tetranuclear Hetero-Metal (ZnII LnIII<sub>2</sub>, CdII<sub>2</sub>LnIII<sub>2</sub>) Complexes. *European J. of Inorganic Chemistry*, v. 14 (8), p. 4111-4123. (Impact Factor: 4.89, Citation: 0).
22. Ghorai, S.K., Tripathy, D., Dasgupta, S. and **Ghosh, S.**, (2014), Location and Binding Mechanism of an ESIPT Probe 3-Hydroxy-2-Naphthoic Acid in Unsaturated Fatty Acid Bound Serum Albumins. *Journal of Photochemistry and Photobiology B: Biology*, v. 131, p. 1. (Impact Factor: 2.96 , Citation: 3).
23. Ghosh, A., Chakrabroti, S., Biswas, K. and **Ghosh, U. C.**, (2014), Agglomerated nanoparticles of hydrous Ce(IV) + Zr(IV) mixed oxide: Preparation, characterization and physicochemical aspects on fluoride adsorption. *Applied Surface Science*, v. 307, p. 665. (Impact Factor: 2.711, Citation: 10 )
24. Saha, I., Gupta, K., Chakraborty, S., Chatterjee, D. and **Ghosh, U. C.**, (2014), Synthesis, characterization and As(III) adsorption behaviour of  $\beta$ -cyclodextrin modified hydrous ferric oxide. *Journal of Industrial and Engineering Chemistry*, v. 20, p. 1741. (Impact Factor: 3.512 , Citation: 2).
25. Ghosh, A., Chakrabroti, S., **Ghosh, U. C.**, Fixed bed column performance of Mn-incorporated iron(III) oxide nanoparticle agglomerates on As(III) removal from the spiked groundwater in lab bench scale. *Chemical Engineering Journal*, v. 248, p. 18. (Impact Factor: 4.321, Citation: 8).
26. Biswas, H. S., Datta, J., Sen, P., **Ghosh, U. C.** and Ray, N. R., (2014), Raman spectra of electrochemically hydrogenated diamond like carbon surface. *Chemical Physics Letters*, v. 600, p. 10. (Impact factor: 1.89 , Citation: 0).
27. Nandi, D, Ghosh, A. K., De, A., Sen, P. and **Ghosh, U. C.**, (2014), Fabrication, nanostructure evaluation, 3D electrical transport and electrochemical capacitance of PEDOT–Ti(IV)-doped iron(III) oxide nanocomposite. *Journal of Materials Science*, v. 49, p. 776. (Impact Factor: 2.37 , Citation: 3).
28. Nandi, D., Pal, P. K., Ghosh, A. K., De, A., **Ghosh, U.C.**, (2014), Polypyrrole decorated graphene nanostructure: Fabrication, depiction and anomalous dimensional crossover in electronic conduction. *Applied Surface Sciences*, v. 293, p. 90. (Impact Factor: 2.711 , Citation: 5).
29. Patra, P. and **Kar, G. K.**, (2014), Studies on the Suzuki reaction on methyl 1-(2-bromoaryl)-5-oxo-3-aryl/heteroaryl-pyrrolidine-2-carboxylate derivatives: Synthesis of N-aryl modified monocyclic gamma lactam derivatives in search of newer antibacterial agents. *Tetrahedron Lett.*, v. 55, p. 326-328 (Impact Factor: 4.197 , Citation: 0).
30. Barik, S. K., Rakshit, M., **Kar, G. K.** and Chakrabarty, M., (2014), An expedient general synthesis of pyrrolo[3,2-e]indazoles: domino Sonogashira/Cacchi coupling -heteroannulation reactions. *ARKIVOC*, v. 1-15, p. (Impact Factor: 1.25, Citations: 0).

31. Patra, P., **Kar, G. K.** and Khatua, B., (2014), Thermolysis of N-aryl enaminoimine hydrochloride derivatives: A short and general method for the synthesis of pyranoquinolin-3-one and pyranoacridin-3-one derivatives. *J. Heterocyclic Chem.*, v. 51(5), p. 1306-1310. (Impact Factor: 0.79, Citations: 0).

**2015:**

1. Ray, D., Das, S., De, R. and **Das, B.**, (2015), Sodium Carboxymethylcellulose-induced Aggregation of 1-Decyl-3- methylimidazolium Chloride in Aqueous Solutions. *Carbohydrate Polymers*, v. 125, p. 255. (Impact Factor: 3.916, Citation: 0).
2. **Das, B.** and Chatterjee, A., (2015), Salt-induced Counterion Condensation and Related Phenomena in Sodium Carboxymethylcellulose-Sodium Halide-Methanol-Water Quaternary Systems. *Soft Matter*, v. 125, p. 255. (Impact Factor: 4.151, Citation: 2).
3. De, R., Ray, D. and **Das, B.** (2015), Influence of Temperature, Added Electrolyte, and Polymer Molecular Weight on the Counterion-Condensation Phenomenon in Aqueous Solutions of Sodium Polystyrenesulfonate: A Scaling Theory Approach. *RSC Advances*, v. 5, p. 54890. (Impact Factor: 3.84, Citation: 0).
4. Das, S; **Chatterjee, D. P.**, Ghosh, R. and Nandi, A. K., (2015), Water soluble polythiophenes: Preparation and applications. *RSC Adv*, v. 5, p. 20160-20177. (Impact factor: 3.84, Citation: 4).
5. Kuila, A.; Maity, N.; **Chatterjee, D. P.** and Nandi A. K., 2015, Temperature triggered antifouling properties of poly(vinylidene fluoride) graft copolymers with tunable hydrophilicity. *J. Mater. Chem. A*, v. 3, p. 13546-13555. (Citation: 0, Impact Factor 7.443)
6. Mondal, S.; Chakraborty, P.; Bairi, P.; **Chatterjee, D. P.** and Nadi A. K., 2015, Light induced E–Z isomerization in a multi-responsive organogel: elucidation from <sup>1</sup>H NMR spectroscopy. *Chem. Commun.*, v. 51, p. 10680-10683. (Impact Factor 6.834, Citation: 0).
7. Ghosh R.; Das S.; **Chatterjee D. P.**; Nandi A. K., 2015, Cationic polythiophene for specific detection of cyanide ions in water using fluorometric technique. *RSC Adv.*, v. 5, p. 92564-92572. (Impact Factor: 3.84, Citation: 0)
8. **Ghosh, P. K.**, Li, Y., Marchesoni, F. and Nori, F., (2015), Pseudochemotactic drifts of artificial microswimmers. *Phys. Rev. E*, v. 92, p.012114. (Impact Factor: 2.228, Citation: 0).
9. **Ghosh, P. K.**, Li, Y., Marchegiani, G. and Marchesoni, (2015), Communication: Memory effects and active Brownian diffusion. *J. Chem. Phys*, v. 143, p. 211101. (Impact Factor: 2.95 , Citation: 0).
10. Ao, X., **Ghosh, P. K.**, Li, Y., Schmid, G., Hänggi, P. and F. Marchesoni, (2015), Diffusion of chiral Janus particles in a sinusoidal channel, *Europhys. Letts.*, v. 109, p.4683. (Impact Factor: 2.095 , Citation: 3).
11. Mukherjee, M., Sarkar, A., Roy, A., Sardar, P. S., Lahiri, A., Chattopadhyay, D. and **Ghosh, S.**, (2015), Role of Tryptophan 135 of Chandipura Virus Phosphoprotein P in Dimerization and Complex Formation with Leader RNA: Structural Aspect using Time Resolved Anisotropy and Simulation. *RSC Adv*, v. 5, p. 104582-104593 (DOI: 10.1039/c5ra20863g,2015) (Impact Factor: 3.84 , Citation: 0).
12. Chakraborty, P., Adhikary, J., Samanta, S., Majumder, I., Massera, C., Escudero, D., **Ghosh, S.**, Bauza, A., Frontera, A. and Das, D., (2015), Influence of para substituents in controlling photophysical behavior and different non-covalent weak interactions in zinc complexes of a phenol based “End-off” compartmental ligand, *Dalton Trans.*, v. 44, p. 20032-20044. (Impact Factor: 4.197, Citation: 0).
13. Maity, M., Majee, M., Kundu, S., Samanta, S. K., Sañudo, E., C., **Ghosh, S.** and Chaudhury, M., (2015),

- Pentanuclear 3d-4f Heterometal Complexes of  $MIII_3LnIII_2$  ( $M = Ni, Cu, Zn$  and  $Ln = Nd, Gd$  and  $Tb$ ) Combinations: Syntheses, Structures, Magnetism and Photoluminescence Properties, *Inorg. Chem.*, v.54, p. 9715-9726. (Impact Factor: 4.762 , Citation: 0).
14. Samanta, S., Sanyal, S. and **Ghosh, S.**, (2015), Confirmation for Designing Hydrophobic Sheet Protected Eu(III)-Tetracycline Complex Using Long Chain Unsaturated Fatty Acid - Efficient 'Antenna Effect' In Aqueous Medium. *J. Lumin.*, v. 160, p. 262. (Impact factor: 2.77, Citation: 0).
  15. Mukherjee, M., Ghosh, R., Chattopadhyay, K. and **Ghosh, S.**, (2015), pH Induced Structural Change of a Multi-Tryptophan Protein MPT63 with Immunoglobulin Like Fold: Identification of Perturbed Tryptophan Residue/Residues. *J Biomol Struct Dyn*, v. 19, p. 1. (Impact Factor: 2.919, Citation: 0).
  16. Ghosh, A., Pal, M., Biswas, K., **Ghosh, U. C.** and Manna, B. R., (2015), Manganese oxide incorporated ferric oxide nanocomposite (MIFN): A novel adsorbent for effective removal of Cr(VI) from contaminated water. *Journal of Water Process Engineering*, v. 7, p. 176-186. (Impact Factor: NA, Citation: 0).
  17. Biswas, H. S., Gupta, K., **Ghosh, U. C.** and Ray, N. R., (2015), Covalently bound Bovine Serum Albumin (BSA) protein modified Hydrogenated Diamond Like Carbon (HDLC) surface as biosensor application. *International Journal of Ecosystem*, v. 5(3A), p. 138-142. (Impact Factor: 2.23, Citation: 0).
  18. Bhattacharya, S. and **Ghosh, U. C.**, (2015), Environmental, economic and health perspectives of arsenic toxicity in Bengal Delta. *World Scientific News*, v. 4, p. 111-139. (Impact Factor: NA , Citation: 0).
  19. Ghosh, A., Chakrabroti, S., Biswas, K. and **Ghosh, U. C.**, (2015), Column Performances on Fluoride Removal by Agglomerated Ce(IV)-Zr(IV) Mixed Oxide Nanoparticles Packed Fixed-Beds, *Journal of Environmental Chemical Engineering*, v. 3, p. 653–661. (Impact Factor: , Citation: 4).
  20. Ghosh, A., Basu, T., Manna, B., Bhattacharya, S., **Ghosh, U. C.** and Biswas, K., (2015), Synthesis of a nanocomposite adsorbent with high adsorptive potential and its application for abatement of chromium (VI) from aqueous stream. *Journal of Environmental Chemical Engineering*, v. 3, p. 565-673. (Impact Factor: 1.054, Citation: 0)
  21. Saha, I., Ghosh, A., Nandi, D., Gupta, K., Chatterjee, D. and **Ghosh, U. C.**, (2015), Beta-Cyclodextrin modified hydrous zirconium oxide: synthesis, characterization and physicochemical aspects on fluoride adsorption. *Chemical Engineering Journal*, v. 263, p. 220–230. (Impact Factor: 4.321 , Citation: 0).
  22. **Halder A.**, (2015), Optical Control of Excited State Dynamics. *Prajnan O Sadhana – A Science Annual*, v. 2, p. 7. (ISSN: 2348-7410) (Impact factor: NA, Citation: 0).
  23. Dutta, P., Nandi, D., Datta, S., Chakraborty, S., Das, N., Chatterjee, S., Ghosh, U., C. And **Halder, A.**, (2015), Excitation Wavelength dependent UV fluorescence of dispersed modified graphene oxide: Effect of pH. *J. Lumin.*, v. 168, p. 269-275. (Impact factor: 2.719, Citation: 0).
  24. Rakshit, M., **Kar, G. K.** and Chakraborty, M., (2015), A new general synthesis of annulated 1,2,3-triazoles using tandem Sonogashira - CuAAC reaction. *Monatsch Chem*, (published online on 13th Feb, 2015) (DOI: 10.1007/s00706-015-1430-y). (Impact Factor: 1.347, Citation 2).
  25. Chakraborty, M., Rakshit, M. And **Kar, G. K.**, (2015), Synthesis and bioactivity of Pyrroloindazoles: An overview. *Heterocycles*, v.91 (8), p. 1555-1557. (Impact factor: 1.079, Citation: 0).
  26. Bonomi, R., Mukhopadhyay, U., Shavrin, A., H-H, Y., **Majhi, A.**, Dewage, W. S., Najjar, A., Xin, L., Cisneros, G. A., Tong, P. W., Alauddin, M. M., Liu, R. S., Mangner, J. T., Turkman, N., Gelovani, G. J., (2015), Novel Histone Deacetylase Class IIa Selective Substrate Radiotracers for PET Imaging of Epigenetic Regulation in the Brain. *PLoS ONE* 10(8): e0133512, doi:10.1371/journal.pone.0133512. (Impact Factor: 3.23, Citation: 0).

## Presidency University

### Book Chapters:

1. Polymer Functionalized Graphene via Atom Transfer Radical Polymerization Route for Graphene-Based Polymer Nanocomposites”, A. K. Nandi, R. K. Layek, S. Samanta and D. P. Chatterjee in “Graphite, Graphene, and Their Polymer Nanocomposites, Eds. P. Mukhopadhyay and R. K. Gupta; CRC Press, Taylor & Francis Group, Boca Raton, Florida, p.393-421 (2013).
2. Electron transfer and hydrogen abstraction in biologically relevant systems”; Brotati Chakraborty, Adity Bose and Samita Basu, Selectivity control and fine tuning in high energy chemistry, 2011, 93-116.
3. Synthesis and Structures of Metal Phosphonates and Phosphates, LAP Lambert Academic Publishing ( 2015-09-23 ), Sasikumar Palani, ISBN-13:978-3-659-76454-7, ISBN-10:365976454X. (Impact factor: NA, Citation: 0).

### h-indices of the Members of Faculty

Name of the Faculty	h-index as per Google Scholar citations on 18-12-2015
Bijan Das	24
Gandhi K. Kar	11
Adity Bose	8
Anjoy Majhi	15
Arnab Halder	9
Biplab Biswas	11
Dhruba Prosad Chatterjee	10
Koena Ghosh	6
Pulak K Ghosh	16
Sasikumar Palani	8

**Annexure 3**

**Names of Students with outstanding achievements and placements for higher studies (2011-15)**

<b>Sr. No.</b>	<b>Name</b>	<b>Achievement</b>
1	Anirban Mishra	Qualified in TIFR integrated PhD Programme
2	Moumita Chakraborty	Qualified in TIFR integrated PhD Programme
3	Gourab Kundu	Qualified in TIFR integrated PhD Programme
4	Soumyadipa	Qualified in TIFR integrated PhD Programme
5	Chandrima Patra	Qualified in TIFR integrated PhD Programme
6	Arunava Ghosh	Qualified in TIFR integrated PhD Programme
7	Soumyajit Mitra	Qualified in TIFR integrated PhD Programme
8	Somnath Singha	Qualified in TIFR integrated PhD Programme
9	Joyeeta Chakraborty	Qualified in TIFR integrated PhD Programme
10	Rituparna Saha	Qualified in TIFR integrated PhD Programme
11	Krishnendu Roy	Qualified in TIFR integrated PhD Programme
12	Sayan Panja	Qualified in TIFR integrated PhD Programme
13	Subhajit Das	Qualified in TIFR integrated PhD Programme
14	Anustup Chakraborty	Qualified in TIFR integrated PhD Programme
15	Rima Saha	Summer Research Fellowship at JNCASR 2015
16	Sourajit Dey Bakshi	IAS Summer Research Fellowship 2015
17	Soumadip Banerjee	IAS Summer Research Fellowship 2015
18	Srijon Ghosh	IAS Summer Research Fellowship 2015
19	Souvik Ghosal	IAS Summer Research Fellowship 2015
20	Ranadeb Ball	IAS Summer Research Fellowship 2015
21	Rajasree Kundu	IAS Summer Research Fellowship 2015
22	Apala chowdhuty	IAS Summer Research Fellowship 2015
23	Mahesh M. Parsutkar	IAS Summer Research Fellowship 2015
24	Joyeeta Chakraborty	Joined Integrated Ph.D programme of IISER Pune 2015
25	Krishnendu	Joined Integrated Ph.D programme of IISER Pune 2015
26	Atrayee	Joined Integrated Ph.D programme of IISER Kolkata 2015
27	Divyangana Parbat	Selected for Ph.D programme of IIT Guwahati 2015
28	Tousif Hossen	Selected for Ph.D programme of IIT Guwahati 2015
29	Subrata Santra	Selected for Ph.D programme of IIT Guwahati 2015
30	Nilimesh Das	Selected for Ph.D programme of IIT Kanpur

## Presidency University

Sr. No.	Name	Achievement
31	Aritra Das	Selected for Ph.D programme of IIT Kanpur
32	Prioti Purba Chaudhury	Selected for Ph.D programme of IISc Bangalore
33	Saptarshi Dutta	Selected for Ph.D programme of IISER Kolkata 2015
34	Ria Sett	Selected as JRF at Calcutta Uuniversity 2015
35	Kaushik Gayen	Joined IICB as JRF
36	Sourav Saha	Joined IIT Madras for Ph.D Programme 2015
37	Anustoop Chakraborty	Joined TIFR for Ph.D Programme 2015
38	Subhajit De	Joined the PhD programme of TIFR 2015
39	Dibyendu Sardar	Qualified NET June 2015 40 Joined IACS Kolkata Ph.D programme 2015
40	Sourav Das	Qualified NET June 2015
41	Sudipta Bera	Qualified NET December 2014 Qualified NET June 2015
42	Sudipta Bera	Joined PhD Programme of IACS Kolkata in 2015
43	Sudipa Santra	Qualified GATE 2015
44	Sudipa Santra	Joined NISER, Bhubaneswar in 2015
45	Abhishek Ghosal	Joined PhD Programme of IISc Bangalore 2015
46	Ishita Das	Joined PhD Programme of IIT Karagpur 2014
47	Sangeeta Sur	Joined PhD Programme in USA 2015
48	Sayan Sarkar	Joined IACS Kolkata Ph.D programme in 2015
49	Poulami Chakraborty	Joined IACS Kolkata Ph.D programme in 2015
50	Chandrima Patra	Joined as JRF at NCBS, Bangalore
51	Debanjana Das	Awarded with KVPY fellowship
52	Mahesh Parsutkar	Stood first in NET December 2014 in all India level
53	Abhisek	Stood second in JAM 2015
54	Srijana	Stood fifth in JAM 2015
55	Priyam	Stood eighth in JAM 2015
56	Gourav	Stood tenth in JAM 2015
57	Anirban	Stood fifteenth in JAM 2015
58	Mrittika Roy	Offered a fellowship at USA for the Ph.D programme.
59	Krishnendu Roy	Secured all India rank of 12 in JAM 2015 (Biotech). Secured all India rank of 44 in JAM 2015 (Life Science).
60	Shantanu	Secured all India rank of 18 in JAM 2015 (Biotech). Secured all India rank of 48 in JAM 2015 (Life Science).
61	Joyeeta	Secured all India rank of 127 in JAM 2015 (Biotech).
62	Rima Saha	Selected for Summer Research Programme 2015 at JNCASR



Sr. No.	Name	Achievement
63	Sreejta Bhowmick	Selected for Summer Research Programme 2015 at JNCASR
64	Arnab Ghatak	Selected for Summer Research Programme 2015 at JNCASR
65	Souvik Miaty	Qualified UGC-NET June 2015 (Rank: 37)
66	Tanmoy Chakraborty	Qualified UGC-NET June 2015 (Rank: 33)
67	Sourav Das	Qualified UGC-NET June 2015 (Rank: 31)
68	Aritra Das	Qualified NET-LS June 2015
69	Soumyajit Patra	Qualified NET-LS June 2015
70	Srijana Barui	Joined IIT, Kanpur (JAM 2015)
71	Anirban Mishra	Joined IIT, Kanpur (JAM 2015)
72	Gourab Kundu	Joined IIT, Kanpur (JAM 2015)
73	Ananya Sah	Joined IIT, Kharagpur (JAM 2015)
74	Somnath Sengupta	Joined IIT, Kharagpur (JAM 2015)
75	Somnath Bhattacharya	Joined IIT, Kharagpur (JAM 2015)
76	Mainak Das	Joined IIT, Kharagpur (JAM 2015)
77	Bijoya Mondal	Joined IIT, Kharagpur (JAM 2015)
78	Sunita Chongre	Joined IIT, Kharagpur (JAM 2015)
79	Moumita Chakraborty	Joined IIT, Kharagpur (JAM 2015)
80	Sohang Kundu	Joined IIT, Bombay (JAM 2015)
81	Soumyadipa Chakraborty	Joined IIT, Bombay (JAM 2015)
82	Sohini Mukherjee	Joined IIT, Madras (JAM 2015)
83	Santanu Mukherjee (Biochem)	Joined IIT, Madras (JAM 2015)
84	Reshmi Dani	Joined IIT, Guwahati (JAM 2015)
85	Arunava	Joined IIT, Guwahati (JAM 2015)
86	Ishita Mukherjee	Joined IISc, Bangalore (JAM 2015)
87	Priya Das	Joined IIT, Guwahati (JAM 2015)
88	Juin Saha	Joined IIT, Guwahati (JAM 2015)
89	Rituparna (Biochem)	Joined IIT, Roorkee (JAM 2015)
90	Joyeeta Chakraborty (Biochem)	Joined IISER, Pune (JAM 2015)
91	Chandrima Patra	Joined NCBS, Pune (JAM 2015)
92	Soumyajit Patra	Joined TIFR (JAM 2015)
93	Krishnendu	Joined TIFR (2015)
94	Arunima Biswas	Joined Hyderabad Central University (JAM 2015)
95	Rina Mahato	Joined Hyderabad Central University (JAM 2015)
96	Alivia Das	Joined Hyderabad Central University (JAM 2015)
97	Sreyosee Sengupta	Joined Hyderabad Central University (JAM 2015)

Annexure 4

List of Seminars and Conferences Organized (2011-15)

Sl. No.	Date/Month	Topic	Source of Funding	Status (Local/State/National level) (student enrichment programme)
1	December 6, 2012	"Predicting Biological Activity from Molecular Structure" by Dr. Rajarshi Guha, National Institute of Health, Rockville, USA	University	Student enrichment programme
2	March 26, 2013	"Porous Metal Organic Frameworks (MOFs) for Hydrogen Storage & CO <sub>2</sub> Sequestration Applications" by Dr. Rahul Banerjee, Physical and Materials Chemistry Division National Chemical Laboratory, Pune	University	Student enrichment programme
3	September 6, 2013	"Application Oriented Synthesis and Surface Modification of Metal/Metal Oxide Nanocrystals" by Dr. Debanjan Guin, National Chemical Laboratory, Pune	University	Student enrichment programme
4	September 18, 2013	"Investigations of Graphene, Noble Metal Nanoparticles and Synthesis of Nanoporous Transparent Conducting Oxide (TCO)" by Dr. Barun Das, Department of Chemistry & Biochemistry, Arizona State University	University	Student enrichment programme
5	September 25, 2013	"UV-VIS Investigation of beta-Carotene and Morin in Presence of AOT/Ethanol System" by Dr. Ajaya Bhattarai, Faculty of Chemistry, University of Warsaw, Poland	University	Student enrichment programme
6	March 20, 2014	"Many Faces of Electrochemistry" by Dr. Amit Paul, IISER, Pune	University	Student enrichment programme
7	April 2014	Chemiquiz Seminar	University	Student enrichment programme
8	April 2014	Prof. J. K. Ray, IIT Kharagpur	University	Student enrichment programme
9	April 2014	Prof. Debshankar Ray, Indian Association for the Cultivation of Science, Kolkata	University	Student enrichment programme
10	April 2014	Dr. Abhishek De, Indian Association for the Cultivation of Science, Kolkata	University	Student enrichment programme
11	July 24, 2014	One-day Seminar on Trends in Surface Science & Related Areas	University and the Indian Society for Surface Science & Technology, Kolkata	State Level Seminar

Sl. No.	Date/Month	Topic	Source of Funding	Status (Local/State/National level) (student enrichment programme)
12	July 24, 2014	"Surface chemistry: Principles and uses" by Prof. Animesh K. Rakshit, Indian Society for the Surface Science & Technology, Kolkata	University and the Indian Society for Surface Science & Technology, Kolkata	State Level Seminar
13	July 24, 2014	"Energy Harvesting Supramolecular Hydrogels" by Prof. Arun K. Nandi, Indian Association for the Cultivation of Science	University and the Indian Society for Surface Science & Technology, Kolkata	State Level Seminar
14	July 24, 2014	"Dye Wastewater Treatment by Adsorbilization and Advanced Oxidation Processes Mediated by Nanoparticles" by Prof. Anjali Pal, Department of Civil Engineering Indian Institute of Technology Kharagpur	University and the Indian Society for Surface Science & Technology, Kolkata	State Level Seminar
15	July 24, 2014	"A Macroproblem that gets Initiated by Microadherence" by Dr. Suparna Dutta Sinha, Department of Physics Jadavpur University, Kolkata	University and the Indian Society for Surface Science & Technology, Kolkata	State Level Seminar
16	July 24, 2014	"Measuring Stability of Emulsion/Suspension/Dispersion using Multiple Light Scattering" by Mr. Surendra Khurana, Orbit Research Associated Pvt. Ltd., New Delhi	University and the Indian Society for Surface Science & Technology, Kolkata	State Level Seminar
17	July 24, 2014	"Physicochemical Investigations on Vesicles Comprising Soylecithin and Ion Pair Amphiphile: An innovative media for Drug Delivery" by Mr. Pritam Guha, Department of Chemistry, University of North Bengal, Darjeeling	University and the Indian Society for Surface Science & Technology, Kolkata	State Level Seminar
18	July 24, 2014	"Soft Chemical Synthesis of Nickel Oxalate and Conversion to NiO, and Evaluation of its Photocatalytic and Antimicrobial Activities" by Mr. Soumyadipta Rakshit, Department of Chemistry, Jadavpur University, Kolkata	University and the Indian Society for Surface Science & Technology, Kolkata	State Level Seminar
19	November 20, 2014	Indo-French Centre for the Promotion of Advanced Research (CEFIPRA) Lecture	University and CEFIPRA	Seminar
20	November 20, 2014	"Chemical Biology in Action: The Fluidity of Cell Membranes and Life Matters. A Vision by Nuclear magnetic Resonance" by Prof. Eric Joel Duforc, CNRS-Universite Bordeaux	University and CEFIPRA	Seminar
21	November 20, 2014	"The Art of Supramolecular Synthesis Towards Functional Materials" by Prof. A. Ajayaghosh, NIIST, CSIR, Trivandrum	University and CEFIFRA	Seminar

**Presidency University**

<b>Sl. No.</b>	<b>Date/Month</b>	<b>Topic</b>	<b>Source of Funding</b>	<b>Status (Local/State/ National level) (student enrichment programme)</b>
22	February 12, 2015	"From Physical Organic to Materials Chemistry: A Small Tour" by Dr. Anandarup Goswami, Department of Chemistry & Chemical Biology, Rutgers University, USA	University	Student enrichment programme
23	February 27, 2015	"Shape Control in Semiconductor Nanocrystals,: Synthesis, Characterisation and Device Fabrication" by Dr. Nimai Mishra, Department of Chemistry, Los Alamos National Lab, Los Alamos, NM,USA	University	Student enrichment programme
24	March 17-18, 2015	Chemiquiz Seminar	University	Student enrichment programme
25	March 17, 2015	"Light, Molecule and Chemistry" by Prof. Tapas Chakraborty, Department of Physical Chemistry, Indian Association for the Cultivation of Science, Jadavpur, Kolkata	University	Student enrichment programme
26	March 17, 2015	"Natural Product-inspired Chemistry of Phenolics" by Prof. Dipak Ranjan Mal, Department of Chemistry, Indian Institute of Technology Kharagpur	University	Student enrichment programme
27	March 17, 2015	"Dioxygen Activation and Oxyfunctionalization of C-H and C=C Bonds by Biomimetic Iron Complexes" by Dr. Tapan K. Paine, Department of Inorganic Chemistry, Indian Association for the Cultivation of Sciences, Jadavpur, Kolkata	University	Student enrichment programme
28	March 17, 2015	"Immunomodulatory Role of a Tri-terpenoid Compound Against Leishmaniasis (Kala-Azar)" by Prof. Subrata Majumdar, Department of Molecular Medicine, Bose Institute, Kolkata	University	Student enrichment programme
29	September 10, 2015	"Journey to the Wonderland" by Mr. Mriganka Sekhar Biswas, Scientist B, Centre for Climate Change Research, Indian Institute of Meteorology, Pune	University	Student enrichment programme
30	December 23, 2015	Chemiquiz Seminar	University	Student enrichment programme
31	December 23, 2015	"Exploring structural aspects of protein, interaction of protein with other molecules and imaging technique using emission spectroscopy" by Prof. Sanjib Ghosh, Emeritus Scientist, Presidency University	University	Student enrichment programme

Sl. No.	Date/Month	Topic	Source of Funding	Status (Local/State/National level) (student enrichment programme)
32	December 23, 2015	“Anion Recognition and Its Significance in Health & Environmental Issues” by Prof. Pradyut Ghosh, Indian Association for the Cultivation of Science, Kolkata	University	Student enrichment programme
33	December 23, 2015	“Organic Synthesis with Organosilanes” by Prof. Tarun Sarkar, IIT Kharagpur	University	Student enrichment programme
34	December 23, 2015	“New insights into the chemistry of carbon nanotubes, graphene oxide (GO) and BN-nanotubes” by Prof. Tapas Kar, Utah State University, USA	University	Student enrichment programme

### Annexure 5

#### List of Doctoral, Post-doctoral Students and Research Associates (2011-15)

Sl. No.	Name	Designation
1.	Dhiman Ray	SRF-DST
2.	Dr. Satyajit Mandal	UGC-DS Kothari Postdoctoral Fellow
3.	Dr. Khokan Samanta	PhD Awarded
4.	Dr. Prasanta Patra	PhD Awarded
5.	Moumita Rakshit	PhD Thesis submitted
6.	Rumpa Hazra	Registered Ph.D. (CU) student
7.	Faruk H. Saik	Registered Ph.D. (CU) student
8.	Tuhin B. Maiti	Registered Ph.D. (CU) student
9.	Aparna Sarkar	Registered Ph.D. (CU) student
10.	Dr. Pinki Saha Sardar	RA upto 2013, DST-FAST Track Research Scientist from January, 2014 - August 2014.
11.	Dr. Manini Mukherjee	PhD Awarded (CU)
12.	Swarna kamal Samanta	PhD Thesis submitted (CU)
13.	Shyamal Kr. Ghorai	PhD Thesis submitted (CU)
14.	Sugata Samanta	SRF-CSIR (CU)
15.	Sagarika Sanyal	Part-time Research Scholar (CU)
16.	Moumita Mukherjee	DST-Project Assistant

Sl. No.	Name	Designation
17.	Anirban Pal	Part-time Research Scholar
18.	Dr. Krisna Biswas	PhD Awarded
19.	Dr. Kousik Gupta	PhD Awarded
20.	Dr. Tina De	PhD Awarded
21.	Dr. Sushanta Debnath	PhD Awarded
22.	Dr. Harisankar Biswas	PhD Awarded
23.	Dr. Sayan Bhattacharyya	PhD Awarded
24.	Dr. Debobrata Nandi	PhD Awarded
25.	Indranil Saha	Part-time Research Scholar
26.	Abir Ghosh	Part-time Research Scholar
27.	Pampa Bhattacharyya	Woman Scientist-DST
28.	Sarat Kanrar	Project Assistant-DST
29.	Dr. Anisur Rahaman Molla	PhD Awarded (CU)
30.	Dr. Pritha Mandal	PhD Awarded (CU)
31.	Dr. Goutam Ghosh	PhD Awarded (CU)
32.	Dr. Debasis Sen	PhD Awarded (CU)
33.	Ipsita Halder	Thesis submitted (CU)
34.	Dr. Partha Sinha Ray	PhD Awarded (CU)
35.	Dr. Debdulal Maity	PhD Awarded (CU)
36.	Dr. Dolon Sengupta	PhD Awarded (CU)
37.	Dr. Pradyut Basak	PhD Awarded (CU)
38.	Prosenjit Saha	JRF-CSIR
39.	Debajyoti Debnath	JRF-DST
40.	Tapas Ghosh	JRF-UGC
41.	Shubhajit Dhara	Project Assistant-DST
42.	Ankan Goswami	Project Assistant-DST
43.	Biswarup Paul	Part-time Research Scholar
44.	Priti Sengupta	Project Assistant-DST

## Annexure 6

## Seminars / Workshops attended by teachers of the Department (2011-15)

Sl. No.	Name of the Teacher	Title of Seminar	Date	Organized by	Status (National/ International)	Role as Resource person /Invited Speaker
1	Dr. Adity Bose	“Acharya Prafulla Chandra Ray Memorial Symposium on Chemistry today (2011) and celebration of the international Year of Chemistry”	August 2-3, 2011	Indian Chemical Society, University College of Science and Technology, Kolkata	National	Participation
2	Dr. Adity Bose	“National Symposium on recent trends in Chemistry”	January 3-7, 2013	The Indian Science Congress”	National	Participation
3	Dr. Adity Bose	Current Trends in Chemistry	December 23-24, 2013	Sripat Singh College, Jiaganj, Murshidabad	National	Oral Presentation
4	Dr. Adity Bose	International Symposium on Light in Chemistry, Materials and Biology	February 24-25, 2014	Indian Institute of Kharagpur, Kharagpur	International	Oral Presentation
5	Dr. Adity Bose	Trends in Surface Science and Related Areas	July 24, 2014	Department of Chemistry, Presidency University	National	Participation
6	Dr. Adity Bose	International Symposium on Advances in spectroscopy and ultrafast dynamics	December 12-14, 2014	IACS, Kolkata	International	Poster Presentation
7	Dr. Adity Bose	International Symposium on Polymer Science and Technology	January 23-27, 2015	IACS, Kolkata	International	Poster Presentation
8	Dr. Adity Bose	The 14th International Spin Chemistry Meeting	March 15-20, 2015	SINP, Kolkata	International	Poster Presentation
9	Dr. Adity Bose	National Symposium on recent advances in Chemistry and Industry	July 31-August 1, 2015	Indian Chemical Society, University College of Science and Technology, Kolkata	National	Poster Presentation
10	Dr. Anjoy Majhi	UGC-sponsored two day National seminar on Current Trends in Chemistry	December 23-24, 2013	Department of Chemistry, Sripat Singh College, Jiaganj, Murshidabad	National	Oral Presentation
11	Dr. Anjoy Majhi	16th CRSI National Symposium in Chemistry	February 7-9, 2014	Indian Institute of Technology Bombay, Powai, Mumbai	National	Participation

**Presidency University**

Sl. No.	Name of the Teacher	Title of Seminar	Date	Organized by	Status (National/International)	Role as Resource person /Invited Speaker
12	Dr. Anjoy Majhi	2nd International Conference on Emerging Trends in Chemical and Pharmaceutical Sciences	October 15 - 17, 2014	CSIR-Indian Institute of Chemical Technology, Hyderabad	International	Poster Presentation
13	Dr. Anjoy Majhi	National Symposium on Recent Advances in Chemistry & industry 2015	July 31-Aug, 01 2015	Indian Chemical Society, Kolkata	National	Participation
14	Dr. Anjoy Majhi	National Conference on "New Frontiers in Chemistry - From Fundamentals to Applications" (NFCFA2015)	December 18-19, 2015	Department of Chemistry, BITS Pilani KK Birla Goa Campus, Goa	National	Poster Presentation
15	Dr. Arnab Halder	2nd International conference on emerging trends in chemical and pharmaceutical sciences – 2014	October 15-17, 2014	Science Tech Foundation and CSIR-IICT at CSIR – IICT Campus, Hyderabad	International	Poster Presentation
16	Dr. Arnab Halder	Two-day international seminar on ground water: issues & challenges of the 21st century	December 29-30, 2014	Sripat Singh College, Murshidabad, Berhampore	International	Poster Presentation
17	Dr. Arnab Halder	National Symposium on Radiation and Photochemistry	March 9 - 11, 2015	Indian Society for Radiation & Photochemical Sciences and Department of Chemistry, IIT, Kanpur at IIT, Kanpur	National	Poster Presentation
18	Dr. Arnab Halder	Short-term QIP course on Fluorescence Spectroscopy and its Application	November 23 - 27, 2015	Department of Chemistry, Indian Institute of Technology Kanpur at IIT, Kanpur	National	Resource Person
19	Prof. Bijan Das	Regional Chemistry Seminar-2011	May 7 - 8, 2011	Nepal Chemical Society, Biratnagar, Nepal		Invited Speaker
20	Prof. Bijan Das	Fifteenth National Conference on Surfactants, Emulsions and Biocolloids - 2011	December 27 - 29, 2011	Tripura University Tripura	National	Invited Speaker
21	Prof. Bijan Das	14th Chemical Research Society of India (CRSI) Symposium in Chemistry	February 3-5, 2012	Thiru vananthapuram	National	Poster Presentation
22	Prof. Bijan Das	International Symposium on Molecular Organization and Complexity: A Chemical Perspective	February 06-08, 2013	University of Calcutta, Kolkata	International	Poster Presentation
23	Prof. Bijan Das	16th Chemical Research Society of India (CRSI) Symposium in Chemistry	February 7-9, 2014	IIT Bombay	National	Poster Presentation



Sl. No.	Name of the Teacher	Title of Seminar	Date	Organized by	Status (National/ International)	Role as Resource person /Invited Speaker
24	Prof. Bijan Das	International Symposium on Polymer Science and Technology (MACRO 2015)	January 23-26, 2015	Indian Association for the Cultivation of Science, Kolkata	International	Invited Speaker
25	Prof. Bijan Das	Twenty Second West Bengal State Science & Technology Congress 2015	February 28-March 01, 2015	University of North Bengal, Darjeeling	State Level	Invited Speaker
26	Prof. Bijan Das	Seminar on Trends in Surface Science & Related Areas,	July 25, 2015	West Bengal State University, Barasat	National	Invited Speaker
27	Prof. Bijan Das	Seventeenth National Conference on Surfactants, Emulsions and Biocolloids	November 04-06, 2015	Pt. Ravishankar Shukla University, Raipur	National	Invited Speaker
28	Dr. Biplab Biswas	International Conference on Structural Chemistry of Molecules and Materials (SCOMM 14)	Nov 20- Dec 2, 2014	Royal Society of Chemistry, University of Calcutta, Jadavpur University and IISER-Kolkata	International	Participation
29	Dr. Dhrubo Prasad Chatterjee	National Seminar on Chemistry for a Better World: Celebrating The International Year of Chemistry	March 29, 2011	Dept. of Chemistry, University of Kalyani,(U.G.C. sponsored)	National	Participant
30	Dr. Dhrubo Prasad Chatterjee	Acharya Prafulla Chandra Ray Memorial Symposium on Chemistry Today (2011) and Celebration of the International Year of Chemistry	August 02-03, 2011	Indian Chemical Society, University College of Science, Rajabazar	National	Participant
31	Dr. Dhrubo Prasad Chatterjee	International Seminar - 3rd FAPS Polymer Congress and Macro 2013	May 15-18, 2013	IISc, Bangalore	International	Poster presentation
32	Dr. Dhrubo Prasad Chatterjee	Two-Day National Seminar on Current Trends in Chemistry	December 23-24, 2013	Dept. of Chemistry, Sripat Singh College, Jiaganj, Murshidabad (U.G.C. sponsored)	National	Oral Presentation
33	Dr. Dhrubo Prasad Chatterjee	Macro-2015, an International conference on polymer for advance technologies, January 2015	January 24-27, 2015	IACS, Jadavpur, Kolkata	international	Oral Presentation
34	Prof. Gandhi Kumar Kar	FICS 2012	December 2-4, 2012	Department of Chemistry, I.I.T Guwaha	National	Participation

**Presidency University**

Sl. No.	Name of the Teacher	Title of Seminar	Date	Organized by	Status (National/International)	Role as Resource person /Invited Speaker
35	Prof. Gandhi Kumar Kar	Current Trends in Synthetic Organic chemistry	January 13, 2015	Department of Chemistry, Indian Institute of Technology, Kharagpur	National	Invited lecture
36	Dr. Koena Ghosh	Advances in Chemistry and their Biological and Industrial Relevance (ACBIR-2014)	January, 10 -11, 2014	Department of Chemistry, National Institute of Technology Rourkela, Rourkela	National	Poster Presentation
37	Dr. Koena Ghosh	16th CRSI-RSC National Symposium in Chemistry (NSC-16)	February, 6-9, 2014	Department of Chemistry, Indian Institute of Technology Bombay, Mumbai under the auspices of the Chemical Research Society of India	National	Attended
38	Dr. Koena Ghosh	Trends in Surface Science and Related Areas (TSSRA-2014)	July 24, 2014	Jointly organized by: Department of Chemistry Presidency University, Kolkata & Indian Society for Surface Science and Technology, Kolkata	National	Participation
39	Dr. Koena Ghosh	2nd International Conference on Emerging Trends in Chemical and Pharmaceutical Sciences and Pharma Chem Expo -2014	October 15-17, 2014	CSIR-Indian Institute of Chemical Technology, Hyderabad	International	Oral Presentation
40	Dr. Koena Ghosh	National Symposium on Perspective and Challenges in Organic Chemistry (PCOC-14)	October 18, 2014	Organic Chemistry Indian Association for the Cultivation of Science (IACS), Jadavpur, Kolkata	National	Participation
41	Dr. Koena Ghosh	National Symposium on Recent Trends and Perspectives in Chemistry (RTPC 2015)	January 23-24, 2014	Department of Chemistry, National Institute of Technology, Sikkim	National	Oral Presentation
42	Dr. Koena Ghosh	National Symposium on Recent Advances in Chemistry & industry 2015	July 31 – August 1, 2015	Indian Chemical Society, Kolkata	National	Participation
43	Dr. Koena Ghosh	National Conference on "New Frontiers in Chemistry - From Fundamentals to Applications" NFCFA2015)	18th -19th December, 2015	Department of Chemistry, BITS Pilani KK Birla Goa Campus, Goa	National	Poster Presentation

Sl. No.	Name of the Teacher	Title of Seminar	Date	Organized by	Status (National/International)	Role as Resource person /Invited Speaker
44	Dr. Krishna Pada Bhabak	Two-Day National Seminar on Current Trends in Chemistry	December 23-24, 2013	Dept. of Chemistry, Sripat Singh College, Jiaganj, Murshidabad (U.G.C. sponsored)	National	Oral Presentation
45	Dr. Krishna Pada Bhabak	16th CRSI National Symposium in Chemistry	February, 6-9, 2014	Department of Chemistry, Indian Institute of Technology Bombay, Mumbai under the auspices of the Chemical Research Society of India	National	Participation
46	Dr. Krishna Pada Bhabak	2nd International Symposium on Emerging Trends in Chemical and Pharmaceutical Sciences and Pharma Chem Expo-2014	October 15-17, 2014	Indian Institute of Chemical Technology (IICT), Hyderabad	International	Participation
47	Dr. Krishna Pada Bhabak	Networking-Cum-Discussion Meet" for existing INSPIRE Faculty Awardees	20-21 March, 2015.	Tezpur University, Tezpur, Assam	National	Poster Presentation
48	Dr. Sasikumar Palani	16th CRSI National Symposium in Chemistry	07-09 Feb 2014	RSC and IIT Bombay	National	Participation
49	Dr. Sasikumar Palani	Recent Developments in Chemical Science & Technology: Young ScientistsTopic: B-N Incorporated $\pi$ -conjugated Systems	15,16 Mar 2014	NIT Rourkela	National	Invited Speaker
50	Dr. Sasikumar Palani	International Conference on Structural Chemistry on Molecules and Materials	30 Nov – 2nd Dec 2014	RSC, Calcutta University, NISER Kolkata and Jadavpur University	International	Participation
51	Dr. Sasikumar Palani	Trends in Surface Science and Related Areas	July 24, 2014	Department of Chemistry, Presidency University	National	Participation
52	Dr. Pulak Ghosh	Symposium on quantum simulation	September 2-3, 2013.	Dept of Phys., IISc, Bangalore, India	International	Invited Speaker
53	Dr. Pulak Ghosh	ICTS Discussion Meeting on Frontiers in Light-Matter Interactions	December 19-22, 2014.	IACS, Kolkata	International	Invited Speaker
54	Prof. Sanjib Bagchi	National Conference on Frontiers in Chemistry	2011	Department of Chemistry, Burdwan University	National	Chair person

## Presidency University

Sl. No.	Name of the Teacher	Title of Seminar	Date	Organized by	Status (National/International)	Role as Resource person /Invited Speaker
55	Prof. Sanjib Bagchi	Inspire (DST) Science Camp	2012	Rastraguru Surendranath College, Barrackpore	National	Resource person
56	Prof. Sanjib Bagchi	Inspire (DST) Science Camp	Sept 2013	JBNSTS	National	Resource person
57	Prof. Sanjib Bagchi	Seminar on Interdisciplinary Sciences	Jan 2015	Nistarini College, Purulia		Resource person
58	Prof. Sanjib Bagchi	DST INSPIRE Internship Programme	Sept 2015	Burdwan University	National	Resource person
59	Prof. Sanjib Ghosh	Trombay Symposium on Radiation and Photochemistry	Jan, 2012	BARC, Mumbai	International	Invited Speaker
60	Prof. Sanjib Ghosh	Indian Photobiology Society	December 12 – 14, 2013	Indian Photobiology Society & Dept. of Chemistry, Jadavpur University	National	Invited Speaker
61	Prof. Sanjib Ghosh	Advances in Spectroscopy and Ultrafast Dynamics	December 12 – 14, 2014	IACS, Kolkata	International	Chair
62	Dr. Uday Chand Ghosh	International Conference on Biomaterials and implants	July 21-23, 2011	Central Glass and Ceramic Research Institute (CSIR), Kolkata	International	Invited Speaker
63	Dr. Uday Chand Ghosh	India-Australia International Workshop on Nanotechnology in Materials and Energy Application	December 28-31, 2011	Jadavpur University, Kolkata	International	Invited Speaker
64	Dr. Uday Chand Ghosh	National Symposium on Recent Advances in Chemistry & Industry	August 01 & 02, 2014	The Indian Chemical Society, Calcutta University	National	Participation
65	Dr. Uday Chand Ghosh	International Seminar on Groundwater: Issues & Challenges of the 21st Century	December 29-30, 2014	Siripat Singh College, Jiaganj, Murshidabad, West Bengal, India	National	Invited lecture
66	Dr. Uday Chand Ghosh	One-Day Workshop on Incidence of High Arsenic in Ground Water in West Bengal and Its Remedial Measures	March 24 2015	Central Ground Water Board Authority and Central Ground Water Board, Eastern Region Kolkata	National	Participation

## Annexure 7

## List of Conference Publications (2011-15)

## 2012:

Samanta, K. and **Kar, G. K.**, 2012, Synthesis of some angularly fused novel “U” Shaped tetracyclic furoquinones simulating ABCD rings of Isotanshinone-II. Proceedings of the National conference in Chemical Science-(FICS), Indian Institute of Technology, Guwahati, Guwahati, Assam.

## 2014:

Rakshit, M., **Kar, G. K.** and Chakrabarty, M., (2014), Application of tandem Sonogashira-CuAAC reactions for the synthesis of a series of novel annulated 1,2,3-triazoles. Proceedings of the National Symposium on Recent Advances in Chemistry and Industry, Contributory paper (Award) - 22, Page-51; Indian Chemical Society.

## 2015:

Sarkar, A., Samanta, K., Das, R. and **Kar, G. K.**, (2015), Model studies towards the synthesis of Isotanshinone-II: General method for synthesis of some angularly fused novel “U” shaped furoquinones simulating ABCD rings of Isotanshinone-II. Proceedings of the 10th Symposium on Acharya Prafulla Chandra Ray and Chemistry Today, (August), Indian Chemical Society, University College of Science and Technology, Kolkata.

## Annexure 8

## Summer Projects conducted for students from other institutes &amp; for own students (2011-15)

Sr. No.	Name of student	Year	University/Institute
1	Abhishek Brata Ghosh	2012	Presidency University
2	Shreya Sinha	2013	Presidency University
3	Rajib Barman	2013	Presidency University
4	Suvajit Bera	2014	IIT Roorkee
5	Pooja Sarkar	2014	IIT Roorkee
6	Raju Biswas	2014	IIT Roorkee
7	Saileswar Nayek	2014	Jadavpur University
8	Uttara Biswas	2014	Jadavpur University
9	Sunny Goon	2014	WB State University
10	Ankan Goswami	2014	WB State University
11	Nithun Ranjan Pandit	2014	WB State University
12	Arnab Chatterjee	2014	VIT, Tamilnadu

## Presidency University

Sr. No.	Name of student	Year	University/Institute
13	Avijit Mondal	2014	WB State University
14	Agniva Dutta	2014	WB State University
15	Nandita Rani Das	2014	Calcutta University
16	Argha Dutta	2014	Presidency University
17	Debolina Chakraborti	2014	Presidency University
18	Arnab Ghatak	2014	Presidency University
19	Ishita Bhattacharjee	2014	Presidency University
20	Priya Das	2014	Presidency University
21	Kuheli Dutta	2014	Presidency University
22	Souvik Ghosal	2014	Presidency University
23	Rajarshi Bhattacharya	2014	Presidency University
24	Sanghamitra Basak	2014	Presidency University
25	Soumendra Jantua	2014	Presidency University
26	Srijon Ghosh	2014	Presidency University
27	Swarup Majhi	2014	Presidency University
28	Soumyadip Banerjee	2014	Presidency University
29	Sutirtha Kamal Sen	2014	Presidency University
30	Subhajit De	2014	Presidency University
31	Shuvendu Ghosh	2015	IIT Guwahati
32	Mihir Manna	2015	IIT Guwahati
33	Joy Banerjee	2015	WB State University
34	Sourabh Bera	2015	NIT, Rourkela
35	Debottam Dasgupta	2015	WB State University
36	Shibam Chakraborty	2015	WB State University
37	Tirthankar Mandal	2015	WB State University
38	Abhisek Pal	2015	WB State University
39	Koushik Mondal	2015	IIT, Guwahati
40	Sandip Sadhukhan	2015	IIT, Kanpur
41	Rahul Karmakar	2015	IIT, Kharagpur
42	Basab Das	2015	Presidency University
43	Sandip Banerjee	2015	Presidency University
44	Dibyangana Parbat	2015	Presidency University

Sr. No.	Name of student	Year	University/Institute
45	Prioti Choudhury Purba	2015	Presidency University
46	Subhajit Chakraborty	2015	Presidency University
47	Aritra Das	2015	Presidency University
48	Saptarshi Datta	2015	Presidency University
49	Achintya Mondal	2015	Presidency University
50	Narugopal Malo	2015	Presidency University
51	Soumabrata Majumder	2015	Presidency University
52	Shrabana Sarkar	2015	Presidency University

- **A brief history of the Department**

The pre-eminence of the Chemistry Department of Presidency College is due to Sir Alexander Pedler, FRS, who published the first Research article in Chemistry from India. In 1886, postgraduate teaching was introduced for the first time. In 1889, Acharya Prafulla Chandra Ray, an alumnus, joined the college after returning from Edinburgh. He set up not only a new and novel line in teaching chemistry but also paved the way for active and devoted research in the field of Chemistry. In 1896, Acharya P.C. Ray published his first important paper on the preparation of mercurous nitrite. The department has produced many illustrious chemists. Among them are Prof. Priyada Ranjan Ray, Prof. Pulin Behari Sarkar, Prof. Jogendra Chandra Bardhan, Prof. Suresh Chandra Sengupta, Prof. Jnanendra Nath Mukherjee, Prof. Mihir Choudhury to name a few. With its glorious heritage and long history as a department of the erstwhile Presidency College, the Department of Chemistry started functioning as one of the leading and vibrant departments of the institution when the Legislature of West Bengal conferred the institution the status of a University on July 7, 2010. With the constant effort of the members of the faculty the department is striving to maintain its long-standing reputation in teaching and research.

## Evaluative Report of the Department: Economics

**1. Name of the Department : Economics**

**2. Year of establishment : 1908**

**3. Is the Department part of a School/Faculty of the university? :**

Faculty of Natural and Mathematical Sciences

**4. Names of programmes offered (UG, PG, MPhil, PhD, Integrated Masters; Integrated PhD, DSc, DLitt, etc.) :**

- UG : BSc Hons. in Economics,
- MSc in Applied Economics,
- GenEd courses in Economics for other departments and
- PhD Science (Economics)

**5. Interdisciplinary programmes and departments involved**

- a. UG General Education (GenED) Programme: following modules are offered to students with Hons in other disciplines: Principles of Economics, The Indian Economy, Development Economics, Basics of Environmental Economics, Elements of Financial Economics .
- b. Big Data Analytics Programme (with Mathematics and Statistics Departments)

**6. Courses in collaboration with other universities, industries, foreign institutions, etc.**

- UG Student Exchange Programme with Sciences Po, Paris in Economics.
- Informal, non-credit academic internships at other research institutions and in the banking and data analytics industries. Approximately 50% PG students and 25% UG students undertake such exercise.

**7. Details of programmes discontinued, if any, with reasons : None**

**8. Examination System: Annual/Semester/Trimester/Choice Based Credit System**

- Semester system with Choice Based Credit System (CBCS) followed in GENED, BSc (Economics Major) and MSc (Applied Economics).

**9. Participation of the department in the courses offered by other departments: NA**

**10. Number of teaching posts sanctioned, filled and actual (Professors/Associate Professors/Asst. Professors/others)**

	Sanctioned	Filled	Actual (including CAS & MPS)
Professor	7	0	0
Associate Professors	0	NA	NA
Asst. Professors	8	6	6
Others	0	0	0



**11. Faculty profile with name, qualification, designation, area of specialization, experience and research under guidance**

Name	Qualification	Designation	Specialization	No. of Years of Experience	No. of PhD/ MPhil studentS guided foR the last 4 Years
Mousumi Dutta	PhD	Associate Professor	Applied Econometrics	19	PhD- 2,
Gagari Chakraborty	PhD	Assistant Professor	Financial Economics	14	PhD- 4,
Pravesh Tamang	MA	Assistant Professor	Environmental Economics	6	0
Prithviraj Guha	PhD	Assistant Professor	Development Economics, Political Economics	2	0
Saswatee Mukherjee	PhD	Assistant Professor	Game theory, Microfinance	2	0
Jayeeta Deshmukh	MA	Assistant Professor	Information Theory, Social and Economic Network Analysis, Informal Legal Institutions	2	0

**12. List of Senior Visiting Fellows, adjunct faculty, emeritus professors :**

- Dr. Pulak Ghosh, Infosys Chair Professor in Economics

**13. Percentage of classes taken by temporary faculty – programme-wise information :**

UG: 25 per cent

PG: 45 per cent

**14. Programme-wise Student Teacher Ratio :**

- UG - 120:6
- PG - 50:6

**15. Number of academic support staff (technical) and administrative staff: sanctioned, filled and actual :**

a. Academic Support Staff (technical) : Sanctioned- , Filled - 1 , Actual - 1

b. Administrative Staff : Sanctioned- , Filled - 3, Actual - 3

**16. Research thrust areas as recognized by major funding agencies :**

- Econometrics, Demography & Health Economics, Financial Economics and Big Data

**17. Number of faculty with ongoing projects from a) national b) international funding agencies and c) Total grants received. Give the names of the funding agencies, project title and grants received project-wise. (full List in annexure)**

SI	Nature of projects	No. of projects	Total amount sanctioned (Rs. lakh)
1	National	3	18.7
2	International	2	44.3

*Details are given in Annexure, along with completed projects of last 4 years.*

**18. Inter-institutional collaborative projects and associated grants received**

**a) National collaboration**

1. **Mousumi Dutta:** ‘Examining the Foetal Origin Hypothesis: Does Ramadan fasting of the mother affect long term physical development of children?’, in collaboration with Humanities & Social Sciences Department, Indian Institute of Technology Kharagpur and Anthropology Unit, Indian Statistical Institute, Kolkata (2014-2016).
2. **Mousumi Dutta:** ‘Restrictive or Individualized Goal-Directed Fluid Replacement Strategy in Ovarian Cancer Cytoreductive Surgery– A prospective randomized controlled trial’, in collaboration with Tata Medical Centre, Kolkata and Humanities & Social Sciences Department, Indian Institute of Technology Kharagpur (2016-2017): Rs.80,000
3. **Mousumi Dutta:** “Cost effectiveness of primary debulking vis-a-vis interval debulking surgery in advanced ovarian cancer’, in collaboration with Centre for Studies in Regional Development, Jawaharlal Nehru University (New Delhi), All India Institute for Medical Sciences (AIIMS, New Delhi), Rajiv Gandhi Cancer Institute and Research Centre (New Delhi) Tata Medical Centre (Kolkata) and Chittaranjan National Cancer Institute (Kolkata) Indian Institute of Technology (Kharagpur) (2016-2018)

**b) International collaboration: Nil**

**19. Departmental projects funded by DST-FIST; UGC-SAP/CAS, DPE; DBT, ICSSR, AICTE, etc.; total grants received.**

- Department has applied for funding to set up CENTER FOR BIG DATA ANALYTICS AND INNOVATION under Rashtriya Uchchar Shiksha Abhiyan (RUSA), Ministry of Human Resources Development, Government of India, jointly with Statistics and Mathematics departments

**20. Research facility / centre with**

- state recognition : Centre for Economic Studies
- national recognition : Centre for Economic Studies
- international recognition : NO

**21. Special research laboratories sponsored by / created by industry or corporate bodies :**

- Proposal to establish a CENTER FOR BIG DATA ANALYTICS AND INNOVATION in collaboration with Mathematics & Statistical departments

**22. Publications: (full List in annexure)**

- Number of papers published in peer reviewed journals (national / international) : 49
- Monographs / Books with ISBN with details of publishers: 5
- Chapters in Books : 5
- Edited Books : Nil
- Number listed in International Database (For e.g. Web of Science, Scopus, Humanities International Complete, Dare Database - International Social Sciences Directory, EBSCO host, etc.) All are listed
- Citation Index – range / average : Range 1 to 15
- SNIP
- SJR

- Impact Factor – range / average    Range 0.622 to 4.047
- h-index

**23. Details of patents and income generated :** NA

**24. Areas of consultancy and income generated :**

- Campus recruitment takes place on regular basis. Students are recruited mostly in IT and related Industries.
- The department has also started Entrepreneurship Development Programme from January 2016 where there is an immense scope of interaction with entrepreneurs and industrialists

**25. Faculty selected nationally / internationally to visit other laboratories / institutions / industries in India and abroad :** NO

**26. Faculty serving in**

- a) National committees b) International committees c) Editorial Boards d) any other (please specify)
- Prof. Pulak Ghosh

**National-level Committee**

1. Member, Project Monitoring Group of Cabinet Committee (Prime Minister’s Office), Developing Big data analytics for Potential Use of Geo-Spatial Technology for tracking Publicly funded Projects
2. Member, Financial Inclusion Committee, Reserve Bank of India
3. Member Analytics Advisory group (National Payment Corporation of India, 2015-Present)
4. Member Advisory group- Big Data Analytics, State Bank of India (Corporate Office)
5. Member Advisory group- Big Data Analytics, Tata Group
6. Member, 73rd National Sample Survey, 2014to present. Surveying unincorporated non-agricultural enterprises in manufacturing, trade and other services (excluding construction), Ministry of Statistics & Programme Implementation; Govt. of India

**International-level Committee**

1. Member of the UN Secretary-General’s Big Data Privacy Advisory Group, United Nation (UN) Big Data Group; UN Global Pulse, 2014
2. Advisor of Knowledge Commission, UNESCO-MGEIP
3. External Advisory Board Member, 2014to present, Institute for Economic Analysis of Decision-making (InstEAD) The University of Sheffield
4. Advisory Board Member, Prorelevant, Jan-2014 to present (U.S. Based Market Research Firm)

**Editorial Board**

1. Guest Editor of Special Issue for the Journal Probability and Statistics: “Probability and Statistics with Applications in Finance and Economics”
2. Editor of Special Issue on Big data and its use in Social Value Creation, Journal of the Royal Statistical Society: Series A (Call for papers are yet to come)
3. Associate Editor, (2015 |2017), Biometrics
4. Associate Editor, (2014 |2018), Journal of the Royal Statistical Society: Series A

## Presidency University

5. Associate Editor, (2009 |2013), Journal of the American Statistical Association
6. Co- Editor, ( 2013 | Present), Electronic Commerce Research and Applications
7. Associate Editor, ( 2008 |2014), Journal of Statistics and Applications
8. Associate Editor, ( 2009 | 2012), Journal of Applied Probability and Statistics

- Dr. Gagari Chakrabarty

1. Technical Editor of The International Journal of Applied Economics and Finance, Journal of Applied Sciences, Research Journal of Business Management, Asian Journal of Scientific Research

- Dr. Saswatee Mukherjee

1. Member of the Advisory and Editorial Board of Global Business Research Journal.

## 27. Faculty recharging strategies (UGC, ASC, Refresher / orientation programmes, workshops, training programmes and similar programmes).

- Department has organized 12 Capacity Building workshops in the last 4 years. List is given below:

1. Capacity Building Workshop on Econometrics & Finance, 14-19 January 2016.
2. Entrepreneurship Development Workshop on 6,7 & 9 January 2016 in collaboration with MSME Department, Govt. of West Bengal and partially funded by Sadhukha Visiting Professor in Industrial Economics Endowment
3. Workshop on “Discrete choice models and ARCH/GARCH models in Risk Modelling”, 19-21 March 2015, Subrata Sarkar, IGIDR
4. Workshop on “Econometric Analysis using R and SPSS “, 21-24 November 2014
5. RBI funded two-day National Level capacity building programme on Financial Economics: November 2012
6. Workshop on ‘Time Series Econometrics’ from 3rd to 5th September; 11th,14th, 18th and 21st September, 2012
7. UCO bank funded Four-day National Level capacity building programme on Financial Economics: December 2011
8. Reserve Bank of India and ICSSR (Eastern Region) funded (Seven days) Capacity Building Workshop on Applied Econometric Analysis: Time Series and Cross Section Analysis, 8-14 September 2011 for faculty, researchers, RBI staff and PG students of Presidency University
9. Workshop on Advanced Topics in Cross Section and Time Series Econometrics - Theories and Applications Part I-II held on 9th and 22nd December, 2010 & 17th -18th February, 2011 at Economics Department, Presidency University
10. Two-phased national level workshop on Advanced Financial Economic Theory and Financial Econometrics, December 2010 - January, 2011

## 28. Student projects

- percentage of students who have done in-house projects including inter-departmental projects :

100 per cent: Compulsory project forms part of curriculum at both UG (6 credits) and PG level (16 credits)

- percentage of students doing projects in collaboration with other universities / industry / institute :

About 70 per cent of PG students do their summer internships in Reserve Bank of India/ State Bank of India / different Universities / analytics firms

**29. Awards / recognitions received at the national and international level by**

- Faculty

**Prof. Pulak Ghosh**

- Received Mahalanobis Award for Research in Econometrics-Jan 2016, given by Indian Econometric Society
- Received the National Award for Young Statisticians, Professor C.R. Rao Award in 2015, for significant work in the field of Statistics by the Ministry of Planning and Programme Implementation, Government of India.
- Awarded \Young Scientist Award”, 2011; by International Indian Statistical Association, for outstanding contribution in the Statistical Applications.
- Best paper award : India Finance Conference, 2011, Indian Institute of Management Bangalore, 2011.
- Doctoral / post doctoral fellows : NO
- Students : Prizes won in different inter-college competitions.

**30. Seminars/ Conferences/Workshops organized and the source of funding (national /international) with details of outstanding participants, if any. (List in annexure)**

- Department has organized 30 such events in the past 4 years Among notable invitees were Prof. Amartya Sen, Dr. Raghuram Rajan, Prof. Joseph Stiglitz, Prof. Dilip Mookherjee, Prof. Mukul Majumdar, Prof. Maitreesh Ghatak, Prof. Esther Dufflo, etc.

**31. Code of ethics for research followed by the departments :**

- In case of primary surveys respondents are informed of purpose of study and their verbal consent is taken. In the case of inter-institute collaborative projects the study is approved by appropriate ethical committee.

**32. Student profile programme-wise:**

Year	Name of the programme	Application received	selected		Pass Percentage (wrtto previous year results)	
			Male	Female	M	F
2015	UG	336	20	6	100%	100%
	PG	87	6	16	100%	100%
2014	UG	748	20	14	100%	100%
	PG	105	15	9	100%	100%
2013	UG	698	20	17	100%	100%
	PG	122	7	16	100%	100%

**33. Diversity of students**

Name of the Programme (refer to question no. 4)	% of students from the same university	% of students from other universities within the State	% of students from universities outside the State	% of students from other countries
B. Sc. (Major in Economics)	NA	85	15	0
M. Sc. (Applied Economics)	25	67	8	0

**34. How many students have cleared Civil Services and Defense Services examinations, NET, SET, GATE and other competitive examinations? Give details category-wise.**

- About 12 per cent of PG students qualify NET every year. Remaining students join banking and analytics

## Presidency University

sector through campus recruitment, etc. 8-10 per cent also pursue higher studies abroad.

- At the UG level, students mainly pursue Masters programme — 70 per cent in national institutes like ISI Delhi, ISI Kolkata, IGIDR, Delhi School of Economics, JNU, etc., and 10 per cent abroad in France, Germany and UK.
- About 20 per cent of UG students remain in Presidency University

### 35. Student progression

Student progression	Percentage against enrolled
UG to PG	98
PG to MPhil	8
PG to PhD	10
PhD to Post-Doctoral	NA
Employed	<b>3 (% of UG students) + 70 (% of PG students)</b>
• Campus selection	<b>3 (% of UG students + 12 (% of PG students)</b>
• Other than campus recruitment	
Entrepreneurs	Programme to encourage entrepreneurship started out of endowment by alumni

### 36. Diversity of staff

Percentage of faculty who are graduates	
of the same university	NA
from other universities within the State	6
from universities from other States from	0
universities outside the country	0

### 37. Number of faculty who were awarded MPhil, PhD, DSc and DLitt during the assessment period :

One faculty (Dr. Saswatee Mukherjee) has been awarded PhD during period of assessment in December, 2013 from Jadavpur University, Kolkata.

### 38. Present details of departmental infrastructural facilities with regard to

- Library : Economics & Political Science library unit forms part of Science library
- Internet facilities for staff and students : YES
- Total number of class rooms : 5
- Class rooms with ICT facility : 4
- Students' laboratories : 1
- Research laboratories : 1

### 39. List of doctoral, post-doctoral students and Research Associates

- from the host institution/university : 0
- from other institutions/universities : 0

### 40. Number of postgraduate students getting financial assistance from the university. : 1

**41. Was any need assessment exercise undertaken before the development of new programme(s)? If so, highlight the methodology.**

**Yes.** The academic curriculum was extensively revised in 2012 and then in 2014. A Mentor Board comprising faculty from ISI Kolkata and IIMC assisted in the first syllabus revision exercise, inviting experts from Calcutta University, CSSS, ISI Kolkata and IIMC. In the second phase, a Board of Studies with external experts from ISI Kolkata, Calcutta University and IIMC was involved. The revision in the second phase utilised inputs from teachers involved in teaching the curriculum between 2012-2014.

**42. Does the department obtain feedback from**

a. *faculty on curriculum as well as teaching-learning-evaluation? If yes, how does the department utilize the feedback?*

During syllabus reorganization, feedback was taken from faculty as well as external academic experts

b. *students on staff, curriculum and teaching-learning-evaluation and how does the department utilize the feedback?*

We take feedback from students as follows:

1. Centrally administered feedback mechanism from students
2. Teacher-student committee of the department
3. Feedback from guardians through periodic meeting or informal sessions.

c. *alumni and employers on the programmes offered and how does the department utilize the feedback?*

Informal mechanism exists in the form of discussion during their visits to students to improve curriculum, references and corporate placements.

**43. List the distinguished alumni of the department (maximum 10) :**

Amartya Sen, Sukhamoy Chakrabarty, Bimal Jalan, Abhijit Vinayak Banerjee, Amiya Bagchi, Arjun Sengupta, Amit Bhaduri, Debraj Ray, Maitreesh Ghatak, Pranab Bardhan.

**44. Give details of student enrichment programmes (special lectures / workshops / seminar) involving external experts.**

The Department organizes the following on regular basis:

- lecture series by external experts
- training / capacity building workshops
- seminars and conferences

Nature	2011	2012	2013	2014	2015	2016
Special lectures	0	0	3	3	5	–
Workshops	4	2	0	2	2	3
Seminar	1	2	1	0	2	-
Total	5	4	4	5	9	3

**45. List the teaching methods adopted by the faculty for different programmes. :**

- Presentations
- Tutorials
- Special lectures by external experts and

## Presidency University

- Training/ capacity building workshops

### 46. How does the department ensure that programme objectives are constantly met and learning outcomes are monitored?

- Continuous assessment and end semester examination
- Tutorials,
- Special lectures by external experts and seminars
- Training/ capacity building workshops
- Compulsory project papers at both UG and PG level

### 47. Highlight the participation of students and faculty in extension activities.

- Students serve as volunteers and assist faculty in organizing departmental events, particularly in publicizing such events.
- Recently, students established a Presidency University Young Entrepreneurship Society. This society is actively involved in the organization of an Entrepreneurial Development Workshop in January 2016.
- Students regularly and actively participate in debating: Sharon Banerjee has participated in the International debate organized by Calcutta Debating Society and The Telegraph, 13 December 2015.
- Many of the undergraduate and postgraduate students of the Economics Department undertake their compulsory project work on social themes like malnutrition, gender disparities in education, gender violence, evaluation of the Mid Day Meal programme, corruption and social sector spendings, etc.
- Pranjal Rawat, student of Economics Department, had undertaken a study of urban slum dwellers in 2014. His study examined on how the economically deprived lead their lives and tried to establish a link between crime and destitution. Pranjal Rawat is also involved with a blog, Youth ki awaaz, (<http://www.youthkiawaaz.com/>) highlighting social issues.
- Noyonika Bose, student of Economics Department, has volunteered with Child Rights and You (CRY) in 2014. As part of her duties, she conducted a survey of schools in Calcutta slums to find out whether they follow the guidelines of the Right To Education (RTE) Act. She also carried out health assessments of children and organise sessions to monitor a child's progress in school.
- Students of the 2013-16 batches, Economics Department, have undertaken a study of disaster management in the context of Cyclone Aila in the Sunderbans.
- Arka Banerjee, Arindam Chakraborty and Shuchi Tripathi of 2013-16 batch have worked with a start up in Himachal known as Himalayan Ecotourism during the month of June, 2015. It was social work and an unpaid internship which focussed on uplifting the status of women in that region by teaching them the recipes of local food items like pickle and jam and other things like soaps etc and using wool to create felt products. Their work included researching and analysing the demand for such products and identifying the target population.
- Vidhi Agarwal of 2013-16 batch is a volunteer at CRY, since February, 2015.
- Mohini Chatterjee of 2013-16 batch is a volunteer at a child education organisation called Make A Difference (MAD) since October 2014
- Rangoli Jain: Presented paper "Wage Gap in Developing Countries: A Theoretical Analysis" at 34th Annual Conference (National Level) of Bangiya Arthaniti Parishad (BENGAL ECONOMIC ASSOCIATION), 2014.



- Rangoli Jain: Stood first in ‘Keynes Apprentice’ (Paper Presentation) held during Confluence, organized by Xavier’s Economic Society at St. Xavier’s College, Kolkata, 2013.
- Debolina Chakrabarti: Presented paper “Policies and announcements of the NDA govt in it’s first year (May 2014- May 2015) and their macroeconomic/sector implications” in the Reliance Industries’ Limited’s Treasury.
- Debolina Chakrabarti: Presented paper “The Make In India programme and historical analysis of other Asian economies in stimulating manufacturing growth” in the Reliance Industries’ Limited’s Treasury.
- Rishav Roy & Ayush Kashyap: Represented the University in the following quiz competitions: Brabourne College festival Quiz [attained 1st position], Quiz at Saturday Club [adjudged best college team], IRSC JU quiz [attained 3rd place], 2015.
- Rishav Roy: First in both JU Fresher’s Quiz and in Presi Fresher’s Quiz, 2015.
- Rishav Roy: Part of the team that qualified for SATC Club quiz finals, 2015.
- Rishav Roy: Gave an interview for the same for the newspaper ‘T2’, 2015.
- Auritra Chandra: Attained first position in Debate at NIOH on International Day of people with disabilities , 2015.
- Rahul S Chauhan: Best Delegate in European Union in Chaitanya Bharati Institute of Tech Model United Nations, 2015.
- Rahul S Chauhan: Winner, Scriptus economics essay competition, St. Xavier’s College, 2015.
- Rahul S Chauhan: Selected to represent India at the South Asian Economics Students Meet, Colombo for paper presentation, 2015.

**48. Give details of “beyond syllabus scholarly activities” of the department. :**

- Students of Economics Department have established a Presidency University Young Entrepreneurship Society (PUYES)
- UG and PG students are given a forum to present their papers on a regular basis to improve presentation skills
- Student excursions are organized every year

**49. State whether the programme/ department is accredited/ graded by other agencies? If yes, give details. :  
Centre for Economic Studies**

**50. Briefly highlight the contributions of the department in generating new knowledge, basic or applied. :**

Regular (software-based) capacity building workshops are organized for internal students and external participants (researchers and young faculty).

In addition faculty undertakes research in the areas of Applied Econometrics, Health Economics, Finance, Environment, Social Networking, Micro-credit and Game theory.

**51. Detail five major Strengths, Weaknesses, Opportunities and Challenges (SWOC) of the department. :**

● **Strength:**

1. Strong alumni base allows us to organize lectures and workshops regularly
2. List of senior guest faculty from institutes like ISI Kolkata, IIMC, Calcutta University, CSSS, etc.
3. Focus on applied / software based learning at UG and PG levels

## **Presidency University**

4. Application of knowledge acquired in theoretical and practical classes in compulsory project assignments at UG and PG level
5. Students are extremely bright and enterprising—shining in both academic and extracurricular activities

### ● **Weaknesses:**

1. Full-time faculty strength needs to be increased on urgent basis
2. Lab facility also needs to be improved
3. Absence of seminar library within Departmental premises
4. Faculty needs to increase research activities and publications
5. Absence of a systematic corporate placement mechanism

### ● **Opportunities:**

1. Establishment of Infosys Chair Professor in Economics
2. Two Endowment funds given by alumni to hold conferences and for a Visiting Professor in Industrial Economics
3. Research collaboration with Tata Medical Centre
4. Faculty Development Fund provided for filling in gaps in research infrastructure, foreign travel, participation in conferences, etc.
5. Strong academic bonding between different batches of students

### ● **Challenges:**

1. Expand optional subjects at PG level
2. Strengthen research base
3. Establish ties with other research institutes/ Universities
4. Expand industry-academic interactions
5. Expand research in inter- and transdisciplinary domains

## **52. Future plans of the department.**

- Expand list of optional subjects at PG level (Health Economics & Demography, International Economics)
- Strengthen laboratory facilities for UG and PG students
- Improve research lab for PhD students
- Establish a Center for Big Data Analytics and Innovation in collaboration with the Mathematics & Statistics departments
- Establish ties with other research institutes/ Universities
- Expand industry-academic interactions
- Expand research in inter- and transdisciplinary domains

## Annexures

### 1. List of Research Projects in Last four Years

Sl. No	Year of Initiation	Year of Completion	Funding agency	PI/ Co-PI	Title	Fund Sanctioned	Fund Received	Completed /ongoing
1	2015	-	University of Chicago Centre in Delhi	Pulak Ghosh	Demand and Inventory Prediction for Perishable Goods in Indian market	1430000	1430000	Ongoing
2	2015	-	IIMB Challenge Grant, 2015	Pulak Ghosh	Housing, Household Leverage and Consumption of Durable Goods: Analysis of the Indian Automobile Market	1700000	1700000	Ongoing
3	2013	-	European Union Research grant	Pulak Ghosh	Multivariate Bayesian Modeling of Skewness and Kurtosis with Applications in statistics	1000000	1000000	Ongoing
4	2016	-	Tata Medical Centre	Mousumi Dutta	Restrictive or Individualized Goal-Directed Fluid Replacement Strategy in Ovarian Cancer Cytoreductive Surgery– A prospective randomized controlled trial	80000	0	Ongoing
5	2013	-	UGC Minor Research Project	Gagari Chakrabarty	Dynamics of Stock market cycles: A systematic introspection from past evidence	90000	.90000	Ongoing
6	2012	2015	ICSSR, Delhi	Mousumi Dutta	Choice of Traditional Contraceptives among Currently Married Women in Kolkata: Ultra-Modernism or Son Preference	871000	871000	Completed
7	2013	2015	FRPDF	Mousumi Dutta	Role of grandparent's involvement in child-care in women's labour force participation	300000	300000	Completed
8	2013	2014	FRPDF	Mousumi Dutta	Prevalence of smoking among adolescents in Kolkata	70000	70000	Completed
9	2011	2012	ICSSR, Eastern Region	Mousumi Dutta	Analyzing nature of demand for medical care in India: A micro-level analysis	30000	30000	Completed

## Presidency University

### 2. List of Seminars and Conferences Organized in last three years

Sl. No.	Date/Month	Topic	Source of Funding	Status (Local/State/national level) (student enrichment programme)
1	14-19 January 2016	Capacity Building Workshop on Econometrics & Finance	University	National workshop
2	11-12 Jan 2016	Learning SPSS	University	State Workshop
3	6,7 & 9 January 2016	Entrepreneurship Development Workshop	Sadhukha Visiting Professor of Industrial Economics Endowment	State workshop
4	10 December 2015	Dipak Banerjee Memorial lecture given by Dr. Raghuram Rajan, Governor, RBI	University	Public lecture / Seminar
5	2 November 2015	Issues in Economic Theory & Policy	Nirmal Kanti Majumdar Endowment Fund	International
6	September 2015	Prof. Maitreesh Ghatak, Series of lecture on Issues related to Development Economics	University	International / Student enrichment programme
7	14 August, 2015	Legacy of John Nash	University	National
8	28 April 2015	Dr Bimal Jalan, Economy, politics and governance	University	Public lecture / Seminar
9	April 25 & 26, 2015	Prof. Caprice Knapp 2-day workshop on Health Policy Issues	University	International/ Student enrichment programme
10	19-21 March 2015	Workshop on "Discrete choice models and ARCH/GARCH models in Risk Modelling"	University	National
11	22 January 2015	Esther Dufflo, The role of women in the Panchayati Raj	University	International / Student enrichment programme
12	7 January, 2015	Dr. Arnab Biswas Seminar on Media Freedom & Gender Equality	University	International / Student enrichment programme
13	12 December, 2014	Dr. Kusum Mundra Seminar on Immigrant Networks and Trade Creation	University	International / Student enrichment programme
14	2014	Dipak Banerjee Memorial lecture given by Prof. Dilip Mookherjee, BoSton University	University	Public lecture / Seminar
15	21-24 November 2014	Workshop on "Econometric Analysis using R and SPSS "	University	State workshop

Sl. No.	Date/Month	Topic	Source of Funding	Status (Local/State/national level) (student enrichment programme)
16	3 September 2014	Workshop on RBI Annual Report 2013-14	University	State
17	8 January, 2014	Prof. Mukul Majumdar, H.T. Warshow and Robert Irving Warshow Professor of Economics, Cornell University, Equilibrium and Welfare in the Arrow-Debreu Model: A Formal Exposition	University	International / Student enrichment programme
18	25 October, 2013	Prof. Ambar Ghosh Seminar on An Alternative to the IS-LM Model	University	National / Student enrichment programme
19	18 September 2013	Prof Indrajit Ray, University of Birmingham, Correlation and Cheap Talk	University	International / Student enrichment programme
20	4 September 2013	Dr Parikshit Ghosh, Delhi School of Economics, Money and Motivation	University	National / Student enrichment programme
21	2013	Dipak Banerjee Memorial lecture given by Prof. Amartya Sen, Harvard University	University	Public lecture / Seminar
22	2012	Dipak Banerjee Memorial lecture given by Prof. Joseph Stiglitz, Columbia Business School	University	Public lecture / Seminar
23	November 2012	Capacity building programme on Financial Economics	RBI	Workshop
24	26th to 28th September, 2012	Seminar on 'Economic Theory and Policy: Multiple Facets': Amitava Bose (IIMC), Pradip Maiti (ISI), D Dasgupta (ISI), AK Sinha (IIMC), SN Sikdar (IIMC)	University	State / Student enrichment programme
25	3rd to 5th, 11th,14th, 18th and 21st September, 2012	Workshop on 'Time Series Econometrics'	University	Workshop
26	2nd and 5th November 2011	Prof. Anup Kumar Sinha (IIMC) Climate Change: The perfect storm and Dr. Runa Sarkar (IIMC) Environmental Economics	University, in collaboration with IIMC	State / Student enrichment programme
27	December 2011	National Level capacity building programme on Financial Economics	UCO Bank	Workshop

## Presidency University

Sl. No.	Date/Month	Topic	Source of Funding	Status (Local/State/national level) (student enrichment programme)
28	8-14 September 2011	Capacity Building Workshop on Applied Econometric Analysis: Time Series and Cross Section Analysis	Reserve Bank of India and ICSSR (Eastern Region)	Workshop
29	9th and 22nd December, 2010 & 17th -18th February, 2011	Workshop on Advanced Topics in Cross Section and Time Series Econometrics - Theories and Applications Part I-II	University	Workshop
30	December 2010 - January, 2011	Two-phased national level workshop on Advanced Financial Economic Theory and Financial Econometrics	University	National level workshop

### 3. Seminar workshops attended by teachers of the Department in last three years (chronologically)

Sl. No.	Name of the Teacher	Title of Seminar	Date	Organized by	Status (National/International)	Role as Resource person /Invited Speaker
1	Saswatee Mukherjee	International Conference on Emerging Research on Sustainable Economic Development	2-3 February, 2016	Startford university	International	Paper Presenter
2	Jayeeta Deshmukh	57th Annual conference of the Indian Society of Labour Economics	10-12 October, 2015	Department of Economics, Central University of Kashmir	National	Paper Presenter
3	Mousumi Dutta	Annual Conference of British Society for Population Studies	7-9 September 2015	Leeds University	International	Paper Presenter
4	Mousumi Dutta	Third Conference of Asian Population Association	27-30 July 2015	University of Malaya and Asian Population Association	International	Paper Presenter
5	Jayeeta Deshmukh	2nd International Research Scholars' workshop	28-29 July, 2015	Department of Economics, University of Calcutta	International	Discussant
6	Pravesh Tamang	Dissemination Workshop of the Fifth Assessment Report (AR5) of IPCC	9th March, 2015		National	Attended
7	Saswatee Mukherjee	International Conference on Global Business, Economics, Finance and Social Sciences (GB15 Thai Conference)	20-22 March, 2015	British University of Dubai and SDMIND	International	Paper Presenter
8	Jayeeta Deshmukh	Reading Group Seminar	30th October, 2014	Economic and Planning Unit of ISI, Delhi Centre	National	Paper Presenter

Sl. No.	Name of the Teacher	Title of Seminar	Date	Organized by	Status (National/ International)	Role as Resource person /Invited Speaker
9	Jayeeta Deshmukh	2nd IGC-ISI Summer School in Development Economics	15th July, 2014	ISI, Delhi unit	International	Paper Presenter
10	Saswatee Mukherjee	5th IGC-ISI India Development Policy Conference	17-18 July 2014	Indian Statistical Institute, New Delhi and International Growth Centre (IGC), New Delhi.	International	Attended
11	Saswatee Mukherjee	2nd IGC-ISI Summer School in Development Economics	12-16 July 2014	Indian Statistical Institute, New Delhi and International Growth Centre (IGC), New Delhi.	International	Attended
12	Jayeeta Deshmukh	2nd IGC-ISI Summer School in Development Economics	12-16 July 2014	Indian Statistical Institute, New Delhi and International Growth Centre (IGC), New Delhi.	International	Attended
13	Saswatee Mukherjee	Centenary Research Scholars' Workshop	8-9 July, 2014	Department of Economics, Calcutta University, Kolkata	National	Discussant
14	Mousumi Dutta:	European Population Conference on "Transition, Opportunities and Threats"	25-28 June 2014	Corvinus University, Budapest	International	Paper Presenter
15	Saswatee Mukherjee	Two-day Seminar on Rural Resource, Credit and Livelihood: The Question of Inclusion	27-28 February, 2014	Rabindra Bharati University-NABARD, Kolkata	National	Paper Presenter
16	Jayeeta Deshmukh	ISI-Warwick workshop	24-28 February, 2014.	ISI Delhi unit and Warwick University	International	Attended
17	Mousumi Dutta (with Antara Dhar and Zakir Husain)	Annual Conference on "Issues in Development, Wellbeing and Livelihood	17-18 January 2014.	Economics Department, Burdwan University	National	Paper Presenter
18	Mousumi Dutta (with Antara Dhar and Zakir Husain)	23rd Annual Conference on "Issues in Development Economics	6-7 January 2014	Department of Economics, Jadavpur University	International	Paper Presenter
19	Mousumi Dutta	50th Golden Jubilee Conference of the Indian Econometric Society	22-24 December 2013.	Indira Gandhi Institute of Development Research, Mumbai	International	Paper Presenter
20	Mousumi Dutta: (with Zakir Husain)	10th Annual Conference on Growth and Development	19-21 December 2013	Indian Statistical Institute, Delhi	International	Paper Presenter

**Presidency University**

Sl. No.	Name of the Teacher	Title of Seminar	Date	Organized by	Status (National/ International)	Role as Resource person /Invited Speaker
21	Saswatee Mukherjee:	9th Annual International Conference on Economic Growth and Development,	19-21 December 2013	Indian Statistical Institute, Delhi	International	Paper Presenter
22	Mousumi Dutta: (with Antara Dhar and Zakir Husain)	55th Annual Conference of Indian Society of Labour Economics	16-18 December 2013	CESP, Jawaharlal Nehru University, Delhi	International	Paper Presenter
23	Saswatee Mukherjee	Winter School 2013	16-18 December 2013	Centre for Development Economics, Delhi School of Economics, New Delhi	International	Paper Presenter
24	Jayeeta Deshmukh	workshop on 'Social and Economic Networks'		Center of Excellence in Systems Science, IIT Jodhpur, Rajasthan, India.	International	Invited Lecture
25	Saswatee Mukherjee	33rd Annual Conference	23-24 February, 2013	Bengal Economic Association, Kolkata	National	Paper Presenter
26	Saswatee Mukherjee	22nd Annual Conference on Contemporary Issues in Development Economics	3-4 January, 2013.	by Jadavpur University, Kolkata	International	Paper Presenter
27	Mousumi Dutta	Annual International Conference on Growth and Development	17-19 December 2012	Indian Statistical Institute, Delhi	International	Paper Presenter
28	Mousumi Dutta	The 2nd APA conference	26-29 August 2012	Bangkok	International	Paper Presenter
29	Mousumi Dutta	The 2nd APA conference	26-29 August 2012	Bangkok	International	Paper Presenter
30	Mousumi Dutta	European Population Conference	13-16 June 2012	Stockholm	International	Paper Presenter
31	Mousumi Dutta	UGC DRS sponsored National Level Seminar	28-29 March, 2012	Economics Department of University of Calcutta	National	Paper Presenter
32	Mousumi Dutta	UGC sponsored National Level Seminar	8-9 February, 2012	Statistics Department of University of Calcutta	National	Paper Presenter
33	Mousumi Dutta	Indian Health Economics and Policy Association, Ministry of Health and Family Welfare (Govt. of India), World Health Organization, UKaid and World Health Organization	18-19 November 2011	Institute of Economic Growth, Delhi	International	Paper Presenter



**4. List of Publications in papers ( peer-reviewed only), Books, Monographs, Last Four Years (Year wise and alphabetically) Papers (Year-wise and Alphabetically): 2016 and Accepted Online**

1. Ausin, C., Galeano, P., and Ghosh, P. A Semiparametric Bayesian Approach to the Analysis of Financial Time Series with Applications to Value at Risk Estimation: *European Journal of Operations Research*, v. 232, p. 350–358. Citation: 9; Impact Factor: 2.911
2. Brown, S., Ghosh, P., Su, L., and Taylor, K. Modeling Household Finances: A Bayesian Approach to Multivariate two-part model: *Journal of Empirical Finance*, v. Accepted - Available Online. Impact Factor: 0.714
3. Brown, S., Ghosh, P., and Taylor, K. Household Finances and Social Interaction: Bayesian Analysis of Household Panel Data: Review of Income and Wealth, v. Accepted - Online Available. Impact Factor: 1.056
4. Chakrabarti, G. The efficacy of intervention in a chaotic foreign exchange market: an empirical study in INR-USD exchange rate series: *Decision*, v. 41, p. 399–410, doi: 10.1007/s40622-014-0066-9.
5. Mukherji, A., Roychoudhury, S., Ghosh, P., and Brown, S. A Bayesian Joint Model for Hospitalization and Out-of-Pocket Expenditure: *Journal of Applied Econometrics*, v. Accepted - Available Online. Impact Factor: 1.673
6. Sriram, K., Ramamoorthi, R.V., and Ghosh, P. Simultaneous Bayesian Estimation of Multiple quantiles with an Extension to Hierarchical Models: *Sankhya - Series A*, v. Accepted- Online Available.
7. Sriram, K., Shi, P., and Ghosh, P., 2016, A Bayesian Quantile Regression Model for Insurance Company Cost Data: *Journal of the Royal Statistical Society*: v. 179, p. 177–202. Impact Factor: 1.643
8. Stanley, I.M.K., Chong, T.L., and Ghosh, P. Stick-Breaking Bayesian Change-Point VAR model with Stochastic Search Variable Selection: *Journal of Econometrics*, v. Accepted. Impact Factor: 1.600
9. Voleti, S., Kopalle, P., and Ghosh, P. An Interproduct Competition Model Incorporating Branding Hierarchy and Product Similarities using Store-Level Data: *Management Science*, v. Accepted - Online Available. Impact Factor: 1.733

**2015**

10. Chakrabarti, G., 2015, Time Series Momentum Trading Strategy in Global Stock Market: *Business Economics*, v. 50, p. 80–90.
11. Dhar, A., Dutta, M., and Husain, Z., 2015, Is the bell tolling for elderly workers: *Journal of Regional Development and Planning*, v. 14.
12. Durham, G., Geweke, J., and Ghosh, P., 2015, A note on consistent Estimation of a Dynamic Jump Intensity model with Implications for Option Pricing: *Journal of Financial Economics*, v. 115, p. 210–215. Impact Factor: 4.047
13. Dutta, M., and Husain, Z., 2015, Grandparental childcare and labour market participation of mothers: *Economic and Political Weekly*, v. 23 May, p. 74–82.
14. Hong, G., Ryan, Y., and Ghosh, P., 2015, Bayesian Estimation of Long-Term Health Consequences of Obesity and Normal-Weight elderly: *Journal of the Royal Statistical Society*, v. Series A, p. 725–740. Impact Factor: 1.643
15. Stanley, I.M.K., Chong, T.L., and Ghosh, P., 2015, Dirichlet Process Hidden Markov Multiple change-Point Model: *Bayesian Analysis*, v. 10, p. 275–296. Impact Factor: 2.576
16. Stober, J., Grace, H., Czado, C., and Ghosh, P., 2015, Comorbidity of Chronic Disease in the Elderly: Patterns identified by a Copula Design for Mixed Responses: *Computational Statistics and Data Analysis*, v. 88, p. 28–39. Impact Factor: 1.400

**2014**

17. Brown, S., Ghosh, P., and Taylor, K., 2014, The Existence and Persistence of Household Financial Hardship: A Bayesian Multivariate Dynamic Logit Framework: *Journal of Banking and Finance*, v. 46, p. 285–298. Impact Factor:1.299
18. Dutta, M., Banerjee, S., and Husain, Z., 2014, Economics of Conservation of Built Heritage: A CV Study of Some Heritage Sites of Calcutta: *Indian Economic Review*, v. XXXX, p. 221–243. 19. Hong, G., Roychoudhury, S., and Ghosh, P., 2014, The Joint Assessment of Longitudinal Multidimensional Functionings in Over-weight and Obese Elderly with a Time Varying Covariates: *Statistics and Its Interface*, p. 297–305. Impact Factor:2.933
20. Husain, Z., Dutta, M., and Chowdhury, N., 2014, Is health wealth? Results of a panel data analysis: *Social Indicators Research*, v. 117, p. 121–143. Citation:1 ;Impact Factor:1.452
21. Husain, Z., Mukherjee, D., and Dutta, M., 2014, Self Help Groups and empowerment of women – Self-selection, or actual benefits? *Journal of International Development*, v. 26, p. 422–437. Citation:15 ;Impact Factor:0.622
22. Voleti, S., and Ghosh, P., 2014, A non-parametric model of residual brand equity in hierarchical branding structures with application to US beer data: *Journal of the Royal Statistical Society*, v. 177, p. 135–152. Impact Factor:1.643
23. Yu, B., O’Malle, A.J., and Ghosh, P., 2014, Linear mixed models for multiple outcomes using extended multivariate skew-t distributions: *Statistics and Its Interface*, p. 101–111. Impact Factor:2.933

**2013**

24. Dutta, M., and Husain, Z., 2013, Does health insurance ensure equitable health outcomes? An analysis of hospital services usage in urban India: *World Health and Population*, v. 14, p. 38–50.
25. Husain, Z., Ghosh, S., and Dutta, M., 2013, Ultra-modern contraception re-examined: Cultural dissent, or son preference? *Asian Population Studies*, v. 9, p. 280–300, doi: 10.1080/17441730.2013.816480.:
26. Husain, Z., Mukherjee, D., and Dutta, M., 2013, Are women economically more empowered in Left-run municipalities? A study of Self Help Groups in West Bengal: *Development in Practice*, v. 27, p. 107–122, doi: 10.1080/09614524.2013.750644.
27. Mukherjee, S., 2013a, A comparative analysis of interest rate between formal sector banks, local moneylenders and MFIs: *Journal of Development Entrepreneurship*, v. 18.
28. Mukherjee, S., 2013b, Sequential Group lending with and without Group liability: *Artha Beekshan*, v. 21, p. 75–85.
29. Muthukumar, S., and Ghosh, P., 2013, A semiparametric Bayesian approach for mark-recapture estimation: *Model Assisted Statistics and Applications*, v. 8, p. 29–39.
30. Sriram, K., Ramamoorthi, R.V., and Ghosh, P., 2013, Posterior consistency of Bayesian Quantile Regression based on the Misspecified asymmetric laplace density: *Bayesian Analysis*, v. 8, p. 479–504.
31. Voleti, S., and Ghosh, P., 2013, A Robust Model to Measure Equity in Hierarchical Branding Structures: *Quantitative Marketing and Economics*, v. 11, p. 289–319.
32. Wai, M., Tu, W., Ghosh, P., and Tiwari, R., 2013, A Nested Dirichlet Process Analysis of Cluster Randomized Trial Data with Application in Geriatric Care Assessment: *Journal of The American Statistical Association*, v. 108, p. 48–68.

**2012**

33. Abanto, C., Lachos, V., and Ghosh, P., 2012, A Bayesian Term Structure Modeling using heavy-tailed distributions: Stochastic Models in Business and Industry, v. 28, p. 430–447.
34. Chakrabarti, G., and Sarkar, A., 2012, Volatility in Indian Stock Market in recent years: Transmission from domestic sectors: Finance India, v. XXVI, p. 883–894.
35. Neelon, B., Ghosh, P., and Loeb, P., 2012, A Spatial Poisson Hurdle Model for Exploring Geographic Variation in Emergency Department Visits: Journal of the Royal Statistical Society, v. 176, p. 389–413.

**2011**

36. Chakrabarti, G., 2011, An Empirical Study on IT Stock Price Movement in India: International Journal of Applied Economics and Finance, v. 5, p. 138–148.
37. Chakrabarti, G., 2011, Financial crisis and the changing nature of volatility contagion in the Asia- Pacific region: Journal of Asset Management, v. 12, p. 172–184.
38. Chakrabarti, G., 2011, Real Sector-Financial Sector Interdependence in Indian Context: An Investigation in terms of Performance of the Emerging New Economy Sector: Finance India, v. XXV.
39. Chakrabarti, G., and Sen, C., 2011, Volatility Regimes and Calendar Anomaly in Foreign Exchange Market: International Journal of Applied Economics and Finance, v. 5, p. 97–113.
40. Ghosh, P., Ghosh, K., and Tiwari, R., 2011, Joint modeling of longitudinal data and informative dropout time in the presence of multiple changepoints: Statistics in Medicine, p. 611–626.
41. Ghosh, P., Ghosh, K., and Tiwari, R., 2011, Bayesian Approach to Cancer-Trend Analysis using Age-Stratified Poisson Regression Models: Statistics in Medicine, v. 30, p. 127–139.
42. Ghosh, P., Nathoo, F., Gonen, M., and Tiwari, R., 2011, Assessing noninferiority in a three-arm trial using the Bayesian Approach: Statistics in Medicine, p. 1795–1808.
43. Park, Y.H., Park, C.H., and Ghosh, P., 2011, Modeling Member Behaviors in User-Generated Content Sites: A Semiparametric Bayesian Approach: Journal of the Royal Statistical Society, p. 1051–1069.
44. Rizopoulos, D., and Ghosh, P., 2011, A Bayesian Semiparametric Multivariate Joint Model for Multiple Longitudinal Outcomes and a Time-to-Event: Statistics in Medicine, p. 1366–1380.
45. Saha, S., and Chakrabarti, G., 2011, Financial Crisis and Financial Market Volatility Spill-over: International Journal of Applied Economics and Finance, v. 5, p. 185–199.
46. Sen, C., Chakrabarti, G., and Sarkar, A., 2011, Evidence of Chaos: A Tale of two Exchange Rates: The Empirical Economics Letters, v. 10, p. 777–784.
47. Tu, W., Ghosh, P., and Katz, B., 2011, Assessing Male-to-Female Chlamydia Trachomatis Transmission Risk Using Observational Data: Journal of the Royal Statistical Society, p. 975–989.

**Papers in edited books:**

1. Chakrabarti, G., In Press, Global Foreign Exchange Market: A Crisis Analysis, in Roy, M. and Roy, S.S. eds., International Trade and International Finance: Explorations on Contemporary Issues, New Delhi, Springer India.
2. Chakrabarti, G., and Sen, C., In Press, The Greens, the Grays and the Global Stock Market, in Sarkar, A. and Ray, T. eds., Managing Sustainable Development: Innovations and Best Practices, New Delhi, Springer India.

## Presidency University

### 2015

3. Chakrabarti, G., 2015, Waves of Financial Crises: History repeats itself?, in Das, R.C. ed., Handbook of research on Globalization, Investment, and Growth-Implications of Confidence and Governance, USA, IGI Global, p. 332–362.

### 2013

4. Dutta, M., and Husain, Z., 2013, Nabadiganta—A new horizon? Patriarchy, globalization and women’s agency in the IT sector, in Banerjee, S. and Chakrabarti, A. eds., Development and sustainability: India in a global perspective, Springer, p. 321–338.
5. Sarkar, A., Chakrabarti, G., and Sen, C., 2013, Volatility, Long Memory, and Chaos: A Discussion on some “Stylized Facts” in Financial Markets with a Focus on High Frequency Data, in Banerjee, S. and Chakrabarti, A. eds., Development and Sustainability: India in a global perspective, Springer, p. 71–101.

## Books

### 2015

- 1 Chakrabarti, G., and Sen, C., 2015, Green Investing: the case of India: Springer.

### 2014

2. Husain, Z., and Dutta, M., 2014, Women Workers in Kolkata’s IT sector: Satisficing Work and Household: Springer.

### 2013

3. Chakrabarti, G., and Sen, C., 2013, Momentum Trading on the Indian Stock Market’: Springer.

### 2012

4. Chakrabarti, G., 2012, Walking the road of New Economy: is India matured enough? Germany, LAP Lambert Academic Publishing.
5. Chakrabarti, G., and Sen, C., 2012, Anatomy of Global Stock Market Crashes: An Empirical Analysis:..
5. List of Conference Publications Last Four Years

### 2015

1. Moitra, B., and Mukherjee, S., 2015, Effects of Competition on default rates in a Microcredit market: an empirical analysis, in Refereed Conference Proceedings, International, Invited Speaker.
2. Mukherjee, S., and Moitra, B., 2015, Competition and Information Sharing Among Lenders: Grameen II, in Refereed Conference Proceedings, International, Invited Speaker.

## Synopsis of Publications

Publications		2011	2012	2013	2014	2015	Total
Paper (peer-reviewed)	national	1	1	1	1	2	6
	International	11	2	8	4	5	30
Books & Monographs	national	0	0	0	0	0	0
	International	0	2	1	1	1	5
Articles in magazine/ Newspaper		0	0	0	0	0	0

7. **Summer Projects conducted for students from other institutes and for own students and summer projects arranged for own students in other institutes (Provide List of names and year) (last four years)**

YEAR	NAME	INSTITUTION
2015	Rangoli Jain	Reserve Bank Of India
2015	Soumallya Chattopadhyay	Reserve Bank Of India
2015	Mukulita Ganguly	Protiviti
2015	Debamudra Guha	Centre For Studies In Social Sciences, Calcutta
2015	Rupama Nayek	Centre For Studies In Social Sciences, Calcutta
2015	Soham Kumar Pal	Centre For Studies In Social Sciences, Calcutta
2015	Avinash Mitra	Deloitte India
2015	Sukanya Acharya	Sigmaway Llc
2014	Utsa Banerjee	Reserve Bank Of India
2014	Sukanya Chakraborty	Reserve Bank Of India
2014	Ashwini Sancheti	Centre For Studies In Social Sciences, Calcutta
2014	Srijan Banerjee	Centre For Studies In Social Sciences, Calcutta

8. **Names of Students with outstanding achievements and placements for higher studies (last four years)**

Many students of the department go on to join top PhD or masters programmes abroad.

**2014**

Two undergraduate students went to do masters - Devvart Podder at Hertie School of Governance, Berlin and Neha Bose at University of Warwick. Four students joined PhD programmes in the USA - Arpita Mukherjee (Rutgers University), Pritha Chowdhury (Purdue University), Soumyadeb Chatterjee (University of Albany) and Debdeep Ghosh (Southern Methodist University).

**2015**

**One student - Arkadeep Bandyopadhyay joined Paris School of Economics for masters.**

9. **A brief history of the Department:**

The Economics department in Presidency University has a rich heritage. In its golden era, the department ran arguably one of the finest undergraduate programmes in the world. Many of its alumni have achieved international renown in the academic world. Although Amartya Sen, recipient of the Nobel Prize in Economics in 1998, is possibly the most well-known alumni, others like Abhijit Vinayak Banerjee, Debraj Ray, Pranab Bardhan, Amiya Bagchi, Bibek Debroy, Sugata Marjit and Maitreesh Ghatak, to name only a few, have become stalwarts in the academic field.

Traditionally, the department has emphasized on theoretical aspects of the discipline. In the last decade, in keeping with current global trends in research and teaching, the department has broadened its focus to include the empirical domain. In 2005, the Department of Science and Technology's FIST grant facilitated the introduction of a Masters in Applied Economics programme. The motive behind this development was to introduce students to current empirical methods and econometric/statistical software, and provide them with grounding in undertaking empirical research. The curriculum, integrating theoretical knowledge with applied skills, produced a new generation of students fit for cutting edge research. The success of the masters programme may be gauged from the rate of absorption of our students by reputed data analytics and financial services companies.

## Evaluative Report of the Department: Geography

1. **Name of the department:** GEOGRAPHY

2. **Year of Establishment:** 2010 (as University), 1949 (as College)

3. **Is the department part of a School/Faculty of the university?**

Under the Faculty of Natural & Mathematical Sciences

4. **Names of the programmes offered:**

- BSc Honours in Geography
- MSc in Geography
- PhD in Science

5. **Interdisciplinary programmes and departments involved:**

- Department offers interdisciplinary Gen-Ed Courses for the other Departments in the undergraduate Programme
- RS-GIS applications in PhD levels with Departments of Physics, Biological Sciences and Geology
- The department offers some research methodology courses which are on offer to scholars of other departments, to be taken as part of their PhD Coursework

6. **Courses in collaboration with other universities, industries, foreign institutions etc.:**

- Students pursue their PG dissertation with other organizations (like NIO, Goa) with approval from both sides

7. **Details of programmes discontinued, if any:** None

8. **Examination System:**

- Semester system with Choice Based Credit System for GenEd Options from a basket of special papers.

9. **Participation of the department in courses offered by other departments:** Nil

10. **Number of teaching posts sanctioned, filled and actual (Professors, Associate Professors. Asst. Professors/ others)**

	Sanctioned	Filled	Actual (Including CAS & MPS)
Professor	1	0	0
Associate Professor	0	0	0
Asst. Professor	13	9	9
Others			

**11. Faculty profile with name, qualification, designation, area of specialization, experience and research under guidance**

Name	Qualification	Designation	Specialization	No. of Years of experience	No. of PhD/MPhil students guided for the last 4 years
Dr. Soumendu Chatterjee	PhD	Assistant Professor and Head of the Department	Soil science and environment geography	15	05
Dr. Mery Biswas	PhD	Assistant Professor	Geomorphology	10	
Dr. Suranjana Banerjee	PhD	Assistant Professor	Environment and Sustainable Development	08	
Dr. Subhajit Das	PhD	Assistant Professor	Geography of Tourism	06	
Dr. Priyank Pravin Patel	PhD	Assistant Professor	Physical aspects of Geography, Geotectonic and Geomorphology	04	
Dr. Joy Sanyal	PhD	Assistant Professor	Surface water hydrology, Remote Sensing	08	
Dr. Koel Roy chowdhury	PhD	Assistant Professor	Regional Planning; Remote Sensing	02	
Aritra Chakraborty	M.Phil	Assistant Professor	Social and Political Geography, Regional Development and Planning	10	
Dhiraj Barman	M.Phil	Assistant Professor	Social Geography	03	

**12. List of senior visiting fellows, adjunct faculty, emeritus professors: Nil**

**13. Percentage of classes taken by temporary faculty – programme-wise information:** UG (10%) PG (8%) PhD: Nil

**14. Programme-wise student-teacher ratio:** UG 8:1 PG 6:1

**15. Number of academic support staff (technical) and administrative staff: sanctioned, filled and actual:** Total support staff: 05

	Sanctioned	Filled
Administrative		2 (on contract) 3 (WB Govt.staff)
Technical		0

**16. Research thrust areas as recognized by major funding agencies:**

- a) D.S.T.: Watershed Management, Natural Hazard and Disaster Management, High Mountain Ecosystem, Basin Ecological Analysis, Environmental Impact of Tourism
- b) State Government: Hydrological Research

**17. Number of faculty with ongoing projects from a) national, b) international funding agencies and c) Total grants received. Give the names of the funding agencies, project title and grants received project-wise.**

• **Project #1:**

Title: Improvement of short term urban and peri-urban landcover classification using RISAT – 1 polarimetric images

Timeline: yet to start

## Presidency University

Role of the Faculty Member: PI

Funding Agency: UGC Faculty Research Promotion Scheme (UGC-FRPS) Start-Up Grant

Amount of Funding: Rupees Six Lakhs

- **Project #2:**

Title: Geomorphic Characterisation of the Gangani Tract, Paschim Medinipur District, West Bengal towards Landscape Mapping, Measurement and Management

Timeline: (April, 2015 - Ongoing)

Role of the Faculty Member: PI

Funding Agency: UGC Faculty Research Promotion Scheme (UGC-FRPS) Start-Up Grant

Amount of Funding: Rupees Six Lakhs

- **Project #3:**

Title: “Large Scale Geomorphological Mapping of a Badland Terrain and Adjacent Stream Corridor for Measuring Gully Network Extension and Riverbank Erosion for Soil Loss Estimation and Agro-Forestry Conservation”

Timeline: (August, 2015 - Ongoing)

Role of the Faculty Member: PI

Funding Agency: DigitalGlobe Foundation Imagery Grant

Amount of Funding: Rupees Thirty-one Lakhs (approximately) worth of high resolution satellite images obtained

- **Project #4:**

Title: “ Modelling the impact of constructing cascade dams on the evolution of the downstream channel morphology and the risk of dam-break disasters in the Teesta River “

Timeline: (2014 - 2017)

Role of the Faculty Member: PI

Funding Agency: Science and Engineering Research Board, DST

Amount of Funding: 21.5 Lakhs rupees

- **Project #5:**

Title: “ Modelling the vertical growth of Kolkata “

Timeline: (2014 - 2016)

Role of the Faculty Member: PI

Funding Agency: DigitalGlobe Foundation

Amount of Funding: Data grant

## 18. Inter-institutional collaborative projects and associated grants received a) National collaboration; b) International collaboration.

- Dr. Subhajit Das is presently working on a project in collaboration with Dr. Keith William BoSak who is an



Associate Professor of Nature- Based Tourism, Department of Society and Conservation, College of Forestry and Conservation, The University of Montana, USA

**Title of the International Programme:** International Technical Assistance in Sustainable Resource Management

**Title of the Collaborative Project:** Challenges and opportunities for conservation in the Sundarbans

**Total Sanctioned Fund for the period from 01st August, 2015 to 30th June, 2016:** 8100 USD

**19. Departmental projects funded by DST-FIST; UGC – SAP/CAS; DPE; DBT; ICSSR; AICTE etc: total grants received.**

- DST –FIST Grant Received: Rs 55 Lakh (Duration 2015-2020)

**20. Research facility/centre with**

- a. State recognition : GIS Laboratory & Hydrology Laboratory
  - Provision of facilities for GIS Analysis and mapping with ArcGIS, Mapinfo GIS Softwares
  - Provision of earth materials, soils and water sample testing facilities (Tide Gauge, Echo Sounder for bathymetry mapping, Water Quality Mapping)
- b. National recognition: DST-FIST funded Laboratory
- c. International recognition

**21. Special research laboratories sponsored by/ credited by industry or corporate bodies. Nil**

**22. Publications: (list in annexure)**

- a. Number of papers published in peer reviewed journals (national/international) - 17
- b. Monographs
- c. Chapters in books - 7
- d. Edited books
- e. Books with ISBN with details of publishers
- f. Number listed in international database (for example web of science, scopus, humanities international complete, Dare Database – International Social Sciences Directory, EBCOHostetc)–6+2
- g. Citation index – range/average
- h. SNIP
- i. SJR
- j. Impact factor – range/average
- k. H-index -6 (JS)

**23. Details of patents/income generated: Nil**

**24. Areas of consultancy and income generated: Nil**

**25. Faculty selected nationally/ internationally to visit other laboratories/ institutions/ industries in India and abroad: Nil**

## Presidency University

### 26. Faculty serving in a) National committees b) International committees c) Editorial Boards d) any other (please specify)

- **Dr. Mery Biswas:** Assistant Secretary in reputed Journals: Indian Journal of Landscape system and ecological studies ISSN 0971-4170 (2010-2014)

Others:

- \* Life Member of National association of Geographers of India, Delhi
- \* Life Member Indian Institute of Geomorphologists, Allahabad
- \* Life Member Indian National Cartographic Association

- **Dr. Priyank Pravin Patel:**

Secretary, Indian Society of Spatial Scientists (publishes the Bi-Annual Reviewed Online Journal – Indian Journal of Spatial Science) (ISSN 2249-3921; EISSN 2249 4316) (www.indianssss.org) Secretary, Geographical Institute, Dept. of Geography, Presidency University, Kolkata

Organising Committee Member of National Seminar on “Remote Sensing & Environment” held at Jadavpur University, Kolkata from 20-22 March, organised by School of Oceanographic Studies, Jadavpur University, Kolkata in collaboration with Council and Department of Science & Technology, Government of West Bengal

Others:

- \* Life Member of National Association of Geographers of India (N.A.G.I.), Hyderabad
- \* Life member of Indian Society of Remote Sensing (I.S.R.S.), Dehradun
- \* Life Member of Geographical Society of India, Kolkata

- **Aritra Chakraborty**

Life Member of Geographical Society of India, Kolkata

Life Member of Regional Science Association of India, Kolkata

Former Member of the editorial board of ‘The Geographical Review of India’

- **Dr. Suranjana Banerjee**

Associate Editor of The International Journal of Environmental Sustainability, Volume 10, Issue 3-4.

Life Member of Indian Institute of Geographers (IIG), Pune.

- **Dr. Subhajit Das**

Member of the “Publication-Edit Committee” of Department of Tourism, Government of West Bengal, Kolkata-01 since 28/11/2013

### 27. Faculty recharging strategies (UGC, ASC, Refresher/orientation programmes, workshops, training programmes and similar programmes)

#### **Dr. Mery Biswas:**

- A. Refresher Course in Geography, at Department of Geography, Calcutta University. Ballygunge Science College, Kolkata, March 27 to April 18, 2015

B. Workshop On Quantitative Methods for Researchers in Social Sciences was held at Institute of Development Studies Kolkata during July 27-31, 2015, Institute Of Development Studies Kolkata (A Centre of Excellence In Social Sciences Funded By The Government Of West Bengal)

**Dr. Priyank Pravin Patel:**

Attended Orientation Programme (OP-109), Academic Staff College, University of Calcutta (ASC-CU), 30 March - 29 April, 2015. Grade Secured: "A".

**Workshops: 04**

Pre-Symposium Tutorial) on Radar Satellite Imaging Systems, organised by the Indian Society of Geomatics (ISG) and Indian Society of Remote Sensing (ISRS) in Jaipur from 14-15 December, 2015

Workshop On Quantitative Methods For Researchers In Social Sciences, held at Institute Of Development Studies Kolkata (IDSK) during July 27-31, 2015

Pre-Symposium Tutorial on Flood Monitoring and Modelling, ISPRS TC VIII International Symposium, National Remote Sensing Centre (NRSC), Hyderabad, 7-8 December, 2014.

Workshop on 'Remote Sensing and Aerial Photography' held at Loreto College, Kolkata on 12 December, 2013, organised by Dept. of Science and Technology and Dept. of Geography, Loreto College, Kolkata

**Aritra Chakraborty**

Attended Orientation Programme, ASC Jadavpur University, 29.8.2011 to 26.09.2011

**Dr. Subhajit Das**

Orientation Programme: 01 (June 23 to July 21, 2012) from UGC-Academic Staff College, University of Calcutta

Refresher Course: 01 (02.03.2015 to 21.03.2015) from UGC-Academic Staff College, Himachal Pradesh University on Research Methodology for Social Sciences (Interdisciplinary)

**Workshops: 02**

On 'Open Source GIS: QGIS' organized by Department of Geography at West Bengal State University from 14th to 16th October, 2009.

UGC sponsored Workshop on 'Data Analysis in Physical Education and Humanities using SPSS' organized by Union Christian Training College, Berhampore, Murshidabad in collaboration with Fitness Society of India from 5th to 7th May, 2010.

**Training Programme: 02**

The Short Course on Global Positioning System (GPS) conducted by National Thematic Mapping Organization (NATMO), Department of Science and Technology, Government of India, at the Research Development and Training Division from 13th to 17th October, 2008.

2-Week Special course on "Introduction to Digital Image Processing and Pattern Recognition" conducted by NRSC, Hyderabad from (03 - 14 August, 2015)

**28. Student projects (provide list in annexure) Nil.**

- a. Percentage of students who have done in-house projects including inter-departmental projects
- b. Percentage of students doing projects in collaboration with other universities/ industry/ institute

## Presidency University

### 29. Awards/recognitions received at the national/international level by

#### a. Faculty

##### **Dr. Koel Roychowdhury**

- Japan Society for the Promotion of Science (UNU- JSPS) Postdoctoral Fellowship, 2012-2014
- Australian Leadership Award, AusAid, Government of Australia
- 2008- 2011
- DFID Commonwealth Scholarship, Association of Commonwealth Universities, Government of Great Britain. 2006-2007
- National Scholarship, Government of India 1997-1999
- National Scholarship, Government of India 1995-1997
- Attended Leadership Workshop as part of Australian Leadership Award Scholarship

##### **Dr. Priyank Pravin Patel:**

- Received “**Prof. N.P. Aiyar Young Geographer Award**” for paper titled “*Utility of Digital Elevation Models in Terrain Evaluation and Drainage Basin Analysis - A Case Study of the Chel River Basin, West Bengal*” at the 31st Indian Geography Congress of National Association of Geographers India (NAGI), held at Rani Durgawati University, Jabalpur from 19-21 November, 2009
- Received “**First Prize**” for paper titled “*Estimation of Land Surface Temperature from Landsat Thermal Images towards Urban Heat Island Mapping of Kolkata*” at **Junior Scientist Meet, 2009** at The Netaji Institute of Asian Studies on 18th March, 2009
- Received “**Best Paper Award**” for paper titled “*Implementation of Geospatial Databases for Drainage Basin Management*”, presented at The National Seminar on Research Methods & Techniques for Sustainable Development in India held at The Dept. of Geography, Ballygunge Science College, Kolkata from 25-26 March, 2006, organised by ILEE & IBRAD
- Qualified for the **L.S. (Lectureship Award)** through the National Eligibility Test (N.E.T.) conducted by the University Grants Commission (U.G.C.) on 26th June, 2005 and the **Junior Research Fellowship (J.R.F.) Award** through the National Eligibility Test (N.E.T.) conducted by the University Grants Commission (U.G.C.) on 31st December, 2005

##### **Dr. Suranjana Banerjee**

- University Junior Research Fellowship by the University of Calcutta in 2006 for pursuing doctoral work on ‘Prospects of Preservation of East Kolkata Wetlands with Particular Reference to the Conservation and Management of Fisheries: Role of the Government, the Stakeholders and the Community’ in the Department of Geography.
- Commonwealth Scholarship for pursuing an MA in Sustainable Development from Staffordshire University, UK in 2004.
- National Merit Scholarship on the basis of performance in the BSc examination conducted by the University of Calcutta, in 2001.
- National Merit Scholarship on the basis of performance in Madhyamik Examination conducted by the West Bengal Board of Secondary Education, in 1996.

#### b. Doctoral/postdoctoral fellows

#### c. Students

**30. Seminars/conferences/workshops organized at the source of funding (national/ international) with details of outstanding participants, if any (Ref. list in annexure).**

- Total invited special lectures and lecture Series - 9 (National - 4, International - 4, State / Local - 1)

**31. Code of ethics of research followed by the departments:**

Department does not adhere to any academic activity pertaining to plagiarism.

**32. Student profile programme-wise:**

Name of the programme (refer to question no. 4)	Applications received	Selected		Pass Percentage	
		Male	Female	Male	Female
UG	1000	5	15		
PG	600	10	20		

**33. Diversity of students**

Name of the programme (refer to question no. 4)	% of students from the same university	% of students from other universities within the state	% of students from iversities outside the state	% of students from other countries
PG	60	35	5	
P.hD	30	70		

**34. How many students have cleared Civil Services examinations. NET, SET, GATE and other competitive examinations? Give details category-wise.**

- NET: 30

**35. Student progression**

Student progression	Percentage against enrolled
UG to PG	80
PG to MPhil	10
PG to PhD	25
PhD to postdoctoral	05
Employed	
• Campus selection	05
• Other than campus recruitment	90
Entrepreneurs	05

**36. Diversity of staff**

Percentage of faculty who are graduates	
Of the same university	90
From other university within the state	10
From university from other states	00
Universities outside the country	00

## Presidency University

**37. Number of faculty who were awarded M.Phil, PhD, DSc and DLitt during the assessment period: Nil**

**38. Present details of departmental infrastructural facilities with regards to**

- a. Library: 1 library with more than 20000 books
- b. Internet facilities for staff and students: More than 60 Computers with wifi
- c. Total number of classrooms: 9
- d. Classrooms with ICT facility: 2
- e. Students' laboratories: 2
- f. Research laboratories: 1

**39. List of doctoral, postdoctoral and research associates**

- a. From the host institution/ university: Total 3 students (Mr. Kaushik Ghosh, Ms. Ishani Ghatak, Ms. Deblina Mitra)
- b. From other institutions/ universities: Nil

**40. Number of postgraduate students getting financial assistance from the university**

**41. Was any need assessment exercise undertaken before the development of new programme(s)? If so, highlight the methodology:**

Yes. Review of the earlier syllabi by faculty and Board of studies was carried out. It was found that the earlier syllabus lacked interdisciplinary nature and research oriented approach. Feedback taken on course modules from students and courses were tailor made to emphasize the wide spectrum of issues that Geography addresses along with inculcation of specific skills (Geoinformatics, EIA) required by specific employers in these fields.

- Outdated and old syllabus was changed at every level. Ph.D programme was introduced. This is a new programme to cater specifically for research. It was done according to the established UGC norm.

**42. Does the department obtain feedback from**

- a. *Faculty on curriculum as well as teaching-learning-evaluation? If yes, how does the department utilize the feedback:*

Yes. Discussions on course work, teaching methods employed and physical and digital infrastructure and resources for the same at Departmental faculty (monthly) and BoS meetings (quarterly). Department takes necessary steps to incorporate the changes required in teaching content and methodology by changing the syllabus from time to time.

- b. *Students on staff, curriculum and teaching-learning-evaluation and how does the department utilize the feedback?*

Yes. Feedback forms as prepared according to a set format by a University appointed committee for this specific purpose, are given to the students at the end of each semester to record their views for each and every course. Students express their views on delivery of the course, materials and content supplied or referred to, nature of class interaction, availability of faculty and facilities, evaluation methods and their overall learning experience.

The collated views from the above feedback are discussed in faculty, BoS and Student Faculty Council meetings. Issues arising therein are addressed categorically for the ensuing semesters. The matter of

inadequate geoinformatics laboratory facilities has been addressed through purchase of a number of computer systems, and software licences. Specialized short courses and invited lectures from external faculty have been arranged to supplement the taught curriculum.

*Alumni and employers on the programmes offered and how does the department utilize the feedback?*

Through talks and interactions with industry representatives as to their requirements. The taught curriculum has been modified to inculcate the required skills in the students. Alumni interact with faculty members and provide valuable inputs for syllabus improvement.

**43. List the distinguished alumni of the department (maximum 10).**

- i. Avijit Gupta
- ii. Swapna Guha Banerjee
- iii. Amal Kar
- iv. Satyesh Chandra Chakraborty
- v. Satyakam Sen
- vi. Sunil Munshi
- vii. Bireswar Banerjee
- viii. Chitta Ranjan Pathak
- ix. Saroj Pal
- x. Kuntala Lahiri Dutta

**44. Give details of student enrichment programmes (special lectures/ workshops/ seminar) involving external experts.**

- Seminars and invited talks at regular interval.

**45. List the teaching methods adopted by the faculty for different programmes. a) Classroom teaching through conventional method**

- b) Powerpoint presentation
- c) Term Papers and Assignments

**46. How does the department ensure that the programme objectives are constantly met and learning outcomes are monitored?**

- Performance of the students in competitive examinations like NET, SET, GRE, TOEFL and IELTS
- Admission of students in professional institutes like- (IIPS & TISS, Mumbai; CEPT, Ahmedabad; SPA, New Delhi & Bhopal) for higher studies.
- Framing and writing of quality dissertations and research projects.
- Students' presentations in National and International seminars and ensuing publications.

**47. Highlight the participation of students and faculties in extension activities.**

Some of the students are associated with NGOs looking into a number of social and environmental issues. Students have the option to join the NSS unit of Presidency University to get involved in extension activities.

**48. Give details of “beyond syllabus scholarly activities” of the department.**

- Through continuous paper publication and seminar presentation.
- Participation in workshops, summer winter short-term courses, refresher courses and Orientation Programmes as participants and speakers
- Participation of the students in summer internships in institutes like NIO, Goa; IDSK, Kolkata
- GeoFest is organized the Geographical Institute, Presidency University (an organization of more than 50 years comprising students, faculty and alumni of the Department) where events include quizzes, debates, map and model making competition, essay writing and photography.

**49. State whether the programme/ department is accredited/ graded by other agencies. If so, give details.**

- DST-FIST in 2015. Amount sanctioned for developing the teaching learning facilities in the department in the next five years is Rs. 55 lakhs.

**50. Briefly highlight the contributions of the department in generating new knowledge, basic or applied.**

- Modelling soil erosion from agricultural catchments
- Formulation of environmentally sustainable ecotourism models for Indian Sundarbans for livelihood generation and biodiversity conservation
- Long term analysis of atmospheric variables for generating robust weather prediction models
- Inundation modelling and improvised ways of hydrological data handling
- Modelling Urban Sprawl and related environmental effects
- Mapping electoral trends

**51. Detail five major strengths, weaknesses, opportunities and challenges (SWOC) of the department.**

a. Strength

- i. A Library with more than 20000 books
- ii. GIS, Soil and Geomorphological Laboratories with updated new instruments and softwares.
- iii. Some of the best brains of the country as our students.
- iv. Updated and modern syllabus
- v. Student intake is very small.

b. Weakness

- i. Scarcity of space.
- ii. Faculty is very limited
- iii. Shortage of non-teaching staffs
- iv. One environmental lab with instruments is required.
- v. Unavailability of residential arrangements within the campus.



- c. Opportunities
  - i. Young faculties
  - ii. Location in a prime class I city.
  - iii. Faculty Research and Development Fund
  - iv. New emerging dynamic department.
  - v. Huge capability for concentrated future research.
- d. Challenges
  - i. Managing increasing class number.
  - ii. Conducting adequate field projects with monetary challenges for the students.
  - iii. Absence of internships.
  - iv. Weak campus recruitment
  - v. A section of students coming from vernacular languages.

**52. Future plans of the department.**

- i. Integrated BSc to P.hD course
- ii. Short diploma course in computer programming in GIS and Remote Sensing.
- iii. Tie ups with other research as well as with government organizations.
- iv. Workshop in research methods.
- v. Rural Development through PPP model.

**Annexures:**

**1. List of Research projects in last four years**

Sl. No.	Year of Initiation	Year of completion	Funding Agency	PI	Title	Fund sanctioned	Fund received	Completed ongoing
1	2014	2017	Science and Ineering Research Board, DST	Joy Sanyal	Modelling the mpcat of constructing cascade dams on the evolution of the downstream channel morphology and the risk of dam-break disasters in the Teesta River	21.5 Lakhs	17.5 Lakh	Ongoing
2	2014	2016	Digital Globe Foundation	Joy Sanyal	Modelling the vertical growth of Kolkata	Data Grant in the form of high resolution satellite imageries	N/A	Ongoing
3	2015	Yet to commence	UGC	Koel Roy chowdhury	Improvement of short term urban and peri-urban landcover classification using RISAT – 1 polarimetric images	Rs. 6 lakhs	Rs. 6 lakhs	Yet to commence
4	2015	On going	UGC	Priyank Pravin Patel	Geomorphic Characterisation of the Gangani Tract, chimMedinipur District, West Bengal towards Landscape Mapping, Measurement and Management	Rs. 6 lakhs	Rs. 6 lakhs	Ongoing
5	2015	On going	Digital Globe Foundation	Priyank Pravin Patel	Scale orphological Mapping of a Badland Terrain and Adjacent Stream Corridor for Measuring Gully Network Extension and Riverbank Erosion for Soil Loss Estimation and Agro-Forestry Conservation	Rupees Thirty-one Lakhs (approximately) worth of high resolution satellite images obtained	Rupees Thirty-one Lakhs (approximately) worth of high resolution satellite images obtained	Ongoing

**2. List of seminars and conferences organized in the last three years:**

Sl. No.	Date/ month	Topic	Source of Funding	Status (local/state/national level) (student enrichment programme)
1	26.08.2014	Scope and dimensions of tourism researches in developing countries like India: A geographer's perspective	University	student enrichment programme
2	11.12.2014	How Does Geography Affect Your Health?	University	student enrichment programme
3	11.12.2014	Political Ecology of Development	University	student enrichment programme
4	11.12.2014	Restructuring Urban Spaces: Planning, Development and Displacement in Contemporary Kolkata	University	student enrichment programme
5	12.12.2014	Why Geography, How Geography: The Relevance of the Discipline in Contemporary Times	University	student enrichment programme
6	12.12.2014	The Ontological Rift and Critical Geography	University	student enrichment programme
7	12.12.2014	The Politics and Poetics of Core and Periphery: The Global and Local Landscapes of Discrimination	University	student enrichment programme
8	22.12.2014	Application of Geographical Techniques in Urban Planning - Lecture One	University	student enrichment programme
9	22.12.2014	Remote Sensing Techniques for Monitoring and Management of Land Use and Land Cover	University	student enrichment programme
10	22.12.2014	Arid Zone Geomorphology and Human Interactions	University	student enrichment programme
11	23.12.2014	Application of Geographical Techniques in Urban Planning - Lecture Two	University	student enrichment programme
12	23.12.2014	Geopolitical Issues regarding the Indian Subcontinent	University	student enrichment programme
13	23.12.2014	Spatial Information Technology in Applied Geomorphological Analysis	University	student enrichment programme
14	21.02.2015	Reframing Urban Tourism	University	student enrichment programme
15	06.04.2015	Monsoon Climate and Climate Change	University	student enrichment programme
16	17.04.2015	A number of papers were presented by different speakers	University	student enrichment programme
17	08.06.2015	Foreign Direct Investment as Neo-Colonialism - The Geography of Power	University	student enrichment programme

3. Seminars/ workshops attended by teachers of the department in last three years (chronologically)

Sl. No.	Name of teacher	Title of Seminar	Date	Organized by	Status (National/ International)	Role as resource person/invited speaker
1.	Dhiraj Barman	Urban Research workshop	July 2014	Indian Institute of Human Settlement, Bangalore	National	
2	Joy Sanyal	Asia-Oceania Geosciences Society Conference in Sapporo, Japan	28 July - 01 August, 2014	Asia-Oceania Geosciences Society	International	
3	Joy Sanyal	International Geographical Union Regional Conference, Moscow, Russia	17 - 21 August, 2015	International Geographical Union	International	
4	Koel Roy chowdhury	Microwave Remote Sensing and Applications	11 – 22 May, 2015	National Remote Sensing Centre, Hyderabad	National	Participant
5	Koel Roy chowdhury	International Geographical Union Regional Conference, Moscow, Russia	17 - 21 August, 2015	International Geographical Union	International	
6	Priyank Pravin Patel	Short Term Course in Remote Sensing and GIS	30 December, 2015	UGC Human Resource Development Centre (The University of Burdwan)	National	Resource Person and Invited Speaker
7	Priyank Pravin Patel	Spatial Governance for Development, Planning Smart Cities and Disaster Management”.	15-17 December, 2015.	Indian National Cartographic Association (INCA)	International	Co-Chairperson of Session on Historical Cartography and participant
8	Priyank Pravin Patel	Workshop (Pre-Symposium Tutorial) on radar satellite imaging systems	14-15 December, 2015	Indian Society of Geomatics (ISG) and Indian Society of Remote Sensing (ISRS)	National	Participant
9	Priyank Pravin Patel	“Fluvial Geomorphology: Channel Morphology, and River Hydrology with special reference to Impact of Climate Change”	9 December, 2015	Department of Geography, St. Xavier’s College, Burdwan	National	Resource Person and Invited Speaker
10	Priyank Pravin Patel	Workshop on Methodology of Fluvial Research and Software Handling	8 September 2015	Department of Geography, University of Gour Banga, Malda, West Bengal,	National	Invited as Resource Person and Hands-on Software Instructor

Sl. No.	Name of teacher	Title of Seminar	Date	Organized by	Status (National/ International)	Role as resource person/invited speaker
11	Priyank Pravin Patel	Basics of Geoinformatics and Landscape Analysis	11 September, 2015	Dept. of Geography, Darjeeling Government College, Darjeeling, West Bengal	National	Invited as Resource Person and Speaker
12	Priyank Pravin Patel	Recent Advances in Geotectonics and Geomorphology and in relation to Landscape Study	10 September, 2015	Dept. of Geography, North Bengal St. Xavier's College, Jalpaiguri, West Bengal	National	Invited as Resource Person and Speaker
13	Priyank Pravin Patel	Workshop on Quantitative Methods for Researchers in Social Sciences	27-31 July, 2015	Institute of Development Studies Kolkata	National	Participant
14	Priyank Pravin Patel	Applications of Geospatial Technology for Sustainable Development	13-14 February, 2015	Dept. of Geography & Applied Geography, University of North Bengal	National	Paper Presenter
15	Priyank Pravin Patel	Using Digital Elevation Models for Terrain Analysis and Drainage Demarcation) at First Winter School on Remote Sensing and GIS	24 December, 2014	Academic Staff College, Burdwan University (ASC-BU), Burdwan	National	Invited as Resource Person and Speaker
16	Priyank Pravin Patel	Pre-Symposium Tutorial on Flood Monitoring and Modelling, ISPRS TC VIII International Symposium	7-8 December, 2014	National Remote Sensing Centre (NRSC), Hyderabad	International	Participant
17	Priyank Pravin Patel	27th Annual Conference of IGI (Indian Institute of Geomorphologists)	14-17 November, 2014.	Indian Institute of Geomorphologists	National	Paper Presenter
18	Priyank Pravin Patel	International Seminar on Environmental Perspectives and Resource Management	19-20 December, 2014.	at Institute of Landscape, Ecology and Ekistics (ILEE)	International	Co-Chairperson and Participant
19	Priyank Pravin Patel	Remote Sensing & Environment	20-22 March, 2014	School of Oceanographic Studies, Jadavpur University, Kolkata in collaboration with Council and Department of Science & Technology, Government of West Bengal	National	Participant and Organiser
20	Priyank Pravin Patel	Contemporary Research in Geography	14-15 March, 2014	Dept. of Geography, Bhairab Ganguly College, Belgharia	National	Paper Presenter

Sl. No.	Name of teacher	Title of Seminar	Date	Organized by	Status (National/ International)	Role as resource person/invited speaker
21	Priyank Pravin Patel	Land, People and Society	6-7 March, 2014,	Dept. of Geography & Applied Geography, University of North Bengal	National	Paper Presenter
22	Priyank Pravin Patel	Workshop on 'Remote Sensing and Aerial Photography'	12 December, 2013	Dept. of Science and Technology, West Bengal and Dept. of Geography, Loreto College, Kolkata	National	Participant
23	Priyank Pravin Patel	Inclusive Growth and Sustainability	11-12 April, 2013	Dept. of Economics & Geography, Behrampore College and Dept. of Geography, Dumkal College	National	Invited Speaker and Session Chairperson on Rural Development
24	Priyank Pravin Patel	"Environment, Resources & Development"	4-5 March, 2013	Dept. of Geography, Lalbaba College, Belur	National	Invited Speaker
25	Priyank Pravin Patel	"River, Flood and Sustainable Resource Management	23rd February, 2013	Dept. of Geography, University of Gour Banga	National	Paper Presenter
26	Aritra Chakraborty	"Regional Disparity in the Railway Infrastructure in India"	22 – 23 August, 2014	Dept. of Geography, Osmania University	National	
27	Aritra Chakraborty	"Disparity in the Development of Railway Network in North East India"	6-8 November, 2014	Regional Science Association, North East Hill University	National	
28	Aritra Chakraborty	"Indian Geopolitics of Permanent Membership of United Nation Security Council"	17-19 November, 2014	National Association of Geographers India, Dept. of Geography, University of Jaipur	National	
29	Aritra Chakraborty	" Disparity in the Allocation of M.P.L.A.D. Funds in the States of India: A Population Perspective"	19-20 December, 2014	Institute of Landscape Ecology and Ekistics, Dept. of Geography, Calcutta University	International	
30	Soumendu Chatterjee	Dakshin Asiay Upa-Anchaliya Sahayogitar Itihaasikaran Banladesh abong Purba Bharater Samaj- Sanskriti o Rajneetir Preskhite	30 May-1st June, 2012	Moulana Abul Kalam Azad Institute of Asian Studies (MAKAIAS)	International	
31	Soumendu Chatterjee	International Conference on "Dimension of Development and Resource Conservation	10-12 March, 2012	Dept. of Geography University of Culcutta, Kolkata.	International	Presented Paper

Sl. No.	Name of teacher	Title of Seminar	Date	Organized by	Status (National/ International)	Role as resource person/invited speaker
32	Soumendu Chatterjee	IGU Conference on “Geoinformatics For Biodiversity and Climate Change”	14-16, March, 2013	Dept. of Geography, M.D. University, Rohtak, Haryana	International	Presented Paper
33	Soumendu Chatterjee	International Conference on “Climate Change: Present Concerns	23-24 June, 2013	Dept. of Geography, Andhra University, Visakhapatnam	International	Presented Paper
34	Soumendu Chatterjee	XXXIII INCA International Congress on “Integrated Decentralized Planning: Geospatial Thinking, ICT and Good Governance	19 – 21 September, 2013	Central Arid Research Zone (CAZRI), ICAR, Jodhpur	International	Presented Paper
35	Soumendu Chatterjee	XXV National Conference of Indian Institute of Geomorphologist on “Upgrading Technologies and Degrading Earth’s Environment: Reality or Myth”	22-24 December, 2012	Dept. of Geography, University of Allabad		
36	Soumendu Chatterjee	UGC Sponsored National Seminar on “Environment, Resources and Development	March 4-5, 2013	Lalbag College, Belur Math.	National	Resource Person
37	Soumendu Chatterjee	National Seminar on “ Climate Change and Environment Impact Assessment-Indian Perspective”	March 21-22, 2013	Netaji Institute for Asian Studies, Kolkata	National	Invited Lecture
38	Soumendu Chatterjee	National seminar on “Natural Resource Management for Sustainable Development	February 9-10, 2013	Bangiyo Bhugal Mancha	National	Invited Lecture
39	Soumendu Chatterjee	National Seminar on Development and Environmental Transformation	March 28 – 29, 2014	Department of Geography, University of Calcutta	National	Paper Presented
40	Soumendu Chatterjee	National Symposium on “Climate, Society and Sustainability”	April 25 – 26, 2014	Department of Geography, University of Calcutta	National	Invited Lecture
41	Soumendu Chatterjee	UGC Sponsored National Seminar on “Application of Modern Techniques for the Management of Contemporary Environmental Hazards and Disasters	September 5 – 6, 2014	Department of Geography, Haringhata Mahavidyalaya and Institute of Landscape, Ecology and Ekistics, Kolkata	National	Invited Lecture
42	Soumendu Chatterjee	National Seminar on Geomorphology and Geospatial Technology in Environment Management and Societal Development	November 14 – 17, 2014	Department of Geography and Environment Management and Department of Remote Sensing & GIS, Vidyasagar University, Midnapore, WB	National	Paper Presented

Sl. No.	Name of teacher	Title of Seminar	Date	Organized by	Status (National/ International)	Role as resource person/invited speaker
43	Soumendu Chatterjee	UGC Sponsored National Seminar	February 13 – 14, 2015	Department of Geography & Applied Geography, University of North Bengal	National	Paper presented
44	Soumendu Chatterjee	UGC Sponsored National Seminar on “Global Environmental Changes; Issues and Challenges	February 25 – 26 2015	Department of Geography, Egra S S Mahavidyalaya	National	Key Note Address
45	Soumendu Chatterjee	on “Hazard, Development and Social Conflict”	March 27 – 28, 2015	Department of Geography University of Calcutta	National	Presented Paper
46	Soumendu Chatterjee	UGC Sponsored One-day Seminar on “Water Crisis and Mangement”	9th. January 2015	Department of Geography, Subarnarekha Mahavidyalaya	State level	Key Note Address
47	Soumendu Chatterjee	UGC Sponsored National Workshop “Climate Change: Science and Conscience”	Kolkata, 13 June, 2013	Kolkata, 13 June, 2013	National	Resource Person
48	Soumendu Chatterjee	UGC Sponsored Short Term Course For Professional Development of Senior Teachers	26th February - 4th March, 2013	ASC, University of Calcutta	National	Participant
49	Soumendu Chatterjee	in UGC Refresher Course on Environmental Science	December 2, 2014	Academic Staff College The University of Burdwan	National	Speaker
50	Soumendu Chatterjee	Winter School on Remote Sensing & GIS	December 13, 2014	Academic Staff College The University of Burdwan	National	Speaker
51	Soumendu Chatterjee	UGC Sponsored Refresher Course/Orientation Programme	March 6-26, 2013	Academic Staff College, University of Calcutta.	National	Participant
52	Soumendu Chatterjee	A two day workshop on Teachers’ Skill development of H.S. (Council) Geography new syllabus	4th September, 2015	Department of Geography, Seva Bharati Mahavidyalaya, Kapgari	State Level	Lesson Instructor
53	Dr. Suranjana Banerji	35th Indian Geographers’ Meet and International Conference	November 11-13, 2013.	Institute of Indian Geographers (IIG)	International	Speaker
54	Dr. Suranjana Banerji	26th Annual Conference of Indian Institute of Geomorphologists (IGI) on Dynamics of Earth Surface Processes	November 20-22, 2013.	Department of Geography and Department of Geology, Maharaja Sayajirao University of Baroda, Vadodara, Gujrat	National	Speaker



Sl. No.	Name of teacher	Title of Seminar	Date	Organized by	Status (National/ International)	Role as resource person/invited speaker
55	Dr. Suranjana Banerji	26th Annual Conference of Indian Institute of Geomorphologists (IGI) on Dynamics of Earth Surface Processes	November 20-22, 2013.	Department of Geography and Department of Geology, Maharaja Sayajirao University of Baroda, Vadodara, Gujrat	National	Rapporteur
56	Dr. Suranjana Banerji	36th Indian Geography Congress, Jaipur, on Urban Systems, Rural Livelihoods Security and Resource Management.	November 17-19, 2014.	National Association of Geographers	National	Speaker
57	Dr. Suranjana Banerji	The Eleventh International Conference on Environmental, Cultural, Economic and Social Sustainability	January 21-23, 2015	Common Ground Publishing, University of Illinois	International	Speaker
58	Mery Biswas	35th Indian Geographers' meet and International conference	11-12 November, 2013	Organized by Department of geography, Burdwan University.	International	speaker
59	Mery Biswas	Sustainability, Environment and Society	12-14 December, 2013	Organized by Department of geography, Madras University	National	speaker
60	Mery Biswas	Application of modern techniques for the management of contemporary Environmental Hazards and Disaster	5-6 September, 2014	Haringhata Mahavidyalaya	National	speaker
61	Mery Biswas	23rd Annual International Conference on Geological and Earth Sciences	September 22-23, 2014	Global Science & Technology Forum	International	Speaker in one session and Chair person in another session
62	Mery Biswas	Urban System, Rural Livelihoods Security and Resource Management	17-19 November, 2014	Department of Geography, University of Rajasthan	National	speaker
63	Mery Biswas	Geomorphology and Geospatial Technology in Environment Management and Societal Development	14-17 November, 2014	Department of Geography, Vidyasagar University	National	speaker
64	Mery Biswas	Environment and Physiocultural Perspectives towards resource Management	19-20 December, 2014	Institute of Landscape, Ecology and Ekistics (ILEE) and Department of Geography, - Cailutta University	National	speaker
65	Mery Biswas	Human Impacts on Landscapes	29-31 October, 2015	Department of Geography, North-Eastern Hill University, Shillong	National	speaker

Sl. No.	Name of teacher	Title of Seminar	Date	Organized by	Status (National/ International)	Role as resource person/invited speaker
66	Mery Biswas	Landform Evolution	15th December, 2015	Department Of Geography, Rishi Bankim Chandra College for Women		Resource person
67	Subhajit Das	Recent Trends in Geographical Research	30th to 31st March, 2013	Foundation of Practising Geographers	National	Paper Presenter
68	Subhajit Das	Environmental Perspectives and Resource Management	19th to 20th December, 2014	Institute of Landscape, Ecology and Ekistics	International	Paper Presenter
69	Subhajit Das	Changing Mountain Environment, Resource Utilization and Sustainable Livelihood	28th to 29th September, 2015	Association of Punjab Geographers	National	Paper Presenter
70	Subhajit Das	Sustainable Planet Earth: Ecological Dimensions and Strategies	17th to 19th October, 2015	Deccan Geographical Society, India	International	Paper Presenter
71	Subhajit Das	Spatial Governance for Development, Planning Smart Cities and Disaster Management	15th to 17th December, 2015	Indian National Cartographic Association	International	Paper Presenter

**4. List of publications in papers (peer-reviewed only), Books, Monographs in last four years (year wise and alphabetically)**

**2012**

1. Biswas M. The Tista-Jaldhaka Interfluve, Jalpaiguri District, West Bengal, Geomorphology and Land Use, Journal of Indian Geomorphology . 2012, Vol 1, pp- 32-37.
2. Sarkar, A. and Patel, P.P. 2012, Terrain Classification of the Dulung Drainage Basin. The Indian Journal of Spatial Science, Vol. III, No. 1, Article 6 (www.indiansss.org, ISSN 2249-3921)
3. Banerji, S. 2012. State-owned Sewage-fed Fisheries of the East Kolkata Wetlands: An Overview. Journal Of Humanities And Social Science, 4 (1), pp. 11-17.
4. Charaborty, A 2012. Structural Epistemology and its Perspectives in Geography, Geographical Review of India, v. 72 , Issue 2, p. 204-215
5. Chakrabarty, P., and Das, S. 2012, Disaster forecasting and GIS: A Case Study at Pelling, West Sikkim. Journal of Interacademia, v. 16, no. 2, p. 294-297.
6. Das, S., and Roy, P.K. 2012, Village Tourism in Sikkim, India: A Pre-colonial Approach for Sustainability. International Journal of Social Science Tomorrow, v. 1, no.4, p. 1-6.
7. Mandal, P.K., and Das, S. 2012, Tourism Dynamics in Alipurduar and Its Surroundings, International Journal of Social Science Tomorrow. v. 1, no. 5, p. 1-8

**2013**

1. Avatar, R., Kumar, P., Surjan, A., Gupta, L.N., Roychowdhury, K., 2013, Geochemical processes regulating

groundwater chemistry with special reference to nitrate and fluoride enrichment in Chhatarpur area, Madhya Pradesh, India. *Environmental Earth Science*, v. 70, Issue 4, p. 1699-1708. (Citation: 10; Impact factor of the journal: 1.765)

2. Sanyal, J., Carbonneau, P., Densmore, A. L., 2013, Hydraulic routing of extreme floods in a large ungauged river and the estimation of associated uncertainties: A case study of the Damodar River, India. *Natural Hazards*, v. 66, p. 1153-1177 (Citation: 8 According to Google Scholar; Impact factor of the journal: 1.719; SNIP2014: 1.19; SJR2014: 0.76).
3. Charaborty, A, 2013 Nature of Linguistic Diversity and Language Concentration in India, *Indian Journal of Regional Science*, v.46, Issue 2, pp. 56-69
4. Das, S. 2013, Beach Quality Assessment: A Study at Puri Municipality Area, Odisha, *Journal of Interacademia*. v. 17, no. 1, p. 116-127.

## 2014

1. Gupta, L. N., Avtar, R., Kumar, P., Gupta, G. S., Verma, R. L., Sahu, N., Sil, S., Jayaraman, A., Sharma, K., Roychowdhury, K., Mutisya, E., Sharma, K., Singh, S.K., 2014, Multivariate Approach for Water Quality Assessment of River Mandakini at Chitrakoot, India. *Journal of Water Resource and Hydraulic Engineering (JWRHE)*, v. 3, Issue 1, p. 22 - 29. (Impact factor: 1.621)
2. Sanyal, J., Densmore, A. L., Carbonneau, P., 2014, Analysing the effect of land use/cover changes at sub-catchment levels on the downstream flood peak: a semi-distributed modelling approach with sparse data. *Catena*, v. 118, p. 28-40. (Citation: 4 According to Google Scholar; Impact factor of the journal: 2.82; SNIP2014: 1.64; SJR2014: 0.98).
3. Sanyal, J., Densmore, A. L., Carbonneau, P., 2014, 2D finite element inundation modelling in anabranching channels with sparse data: examination of uncertainties, *Water Resources Management*. v. 28, p. 2351-2366. (Citation: 1 According to Google Scholar; Impact factor of the journal: 2.60; SNIP2014: 1.81; SJR2014: 1.52).
4. Sanyal, J., Carbonneau P, Densmore A. L.,2014, Low-cost inundation modelling at the reach scale with sparse data in the Damodar river basin, India, *Hydrological Sciences Journal*. v. 59, p. 2086-2102. (Citation: None; Impact factor of the journal: 1.54; SNIP2014: 0.82; SJR2014: 0.79).
5. Biswas M. Development of Alluvial fans and associated Land use problems of Himalayan FootHills, West Bengal *International Journal of Engineering and Science*. February 2014, Vol 4, No. 2. pp- 25-35, ISSN (e) 0971-4170.
6. Biswas M. River Dynamism and Quasi-Natural Disaster of Kedernath Area, Uttarakhand, *International Journal of Advancement in Research and Technology* .May2014, Vol 3, No. 5. pp- 10-17, ISSN (e)2278-7763
7. Biswas M and Biswas A, Impact Of Feeder Canal On Channel Morphology A Case Study Between Guptipara And Payradanga, West Bengal, India. *International Journal Of Advanced Information Science And Technology*.October 2014, Vol30, No. 30.pp- 147-156 , ISSN (e) 2319 – 2682,Impact factor : 3.564(sjr)
8. Barman, N.K., Chatterjee S., & Khan A. (2014) Spatial Variability of Flood Hazard Risks in the Balasore Coastal Block, Odisha, India. *J Geogr Nat Disast*, 4(1), 1-7. doi: 10.4172/2167-0587.1000120.
9. Barman, N.K., Chatterjee S., & Khan A. (2014) Determining the Degree of Flood Hazard Risks in the Baliapal Coastal Block, Odisha, India: A Quantitative Approach. *Open Journal of Ocean and Coastal Sciences*, 1(1), 1-11.doi: 10.41982/2167-0587.1000875.
10. Bisai, D., Chatterjee, S., Khan, A., & Barman, N.K. (2014) Application of Sequential Mann-Kendall Test for Detection of Approximate Significant Change Point in Surface Air Temperature for Kolkata Weather Observatory, West Bengal, India. *International Journal of Current Research*, 6(2), 5319-5324. ISSN: 0975-833X.

11. Bisai, D., Chatterjee, S., & Khan, A. (2014) Long Term Trends in Mean Annual Surface, Mean Annual Maximum and Mean Annual Minimum Air Temperatures for Kolkata during 1941-2010. *J Earth SciClim Change*, 5(5), 1-5. doi:10.4172/2157-7617.1000197.
12. Bisai, D., Chatterjee, S., Khan, A., & Barman, N.K. (2014) Statistical Analysis of Trend and Change Point in Surface Air Temperature Time Series for Midnapore Weather Observatory, West Bengal, India. *Hydrol Current Res*, 5(2), 1-7. doi:10.4172/2157-7587.1000169.
13. Bisai, D., Chatterjee, S., Khan, A., & Barman, N.K. (2014) Long Term Temperature Trend and Change Point: A Statistical Approach. *Open Journal of Atmospheric and Climate Change*, 1(1), 32-42. doi:10.4172/2157-7587.1000169.
14. Khan, A., Chatterjee, S., & Barman, N.K. (2014) Book Review: Introductory Dynamical Oceanography. *Journal of Engineering, Computers & Applied Sciences*, 3(2), 18-19. ISSN: 2319-5606.
15. Bisai, D., Chatterjee, S., & Khan, A. (2014) Detection of Recognizing Events in Lower Atmospheric Temperature Time Series (1941-2010) of Midnapore Weather Observatory, West Bengal, India. *Journal of Environment and Earth Science*, 4(3), 61-66. ISSN: 2225-0948.
16. Bisai, D., Chatterjee, and S., & Khan, A. (2014) Determination of Undocumented Change Point in Monthly Average Temperature Time Series (1941-2010) for Krishnanagar Weather Observation Station, West Bengal, India. *International Journal of Engineering Research & Technology*, 3(1), 602-608. ISSN: 2278-0181.
17. Khan, A., Chatterjee, S., & Barman, N.K. (2014) Appraisal of Geodiversity of Kansai-Tangai Interfluves Area (PaschimMedinipur District, West Bengal) using Remote Sensing Data and GIS tools: An Effort to Forward Landscape Management. *Journal of Applied Geology and Geophysics*, 2(2), 39-49. doi: 10.9790/0990-02223949.
18. Khan, A., Chatterjee, S., & Bisai, D. (2014) Book Review: The City and the Coming Climate: Climate Change in the Places We Live. *Journal of Urban and Regional Analysis*, 6(1), 103-108. ISSN: 2068-9969.
19. Chatterjee, S., Khan, A., & Bisai, D. (2014) Detection of Approximate Potential Trend Turning Points in Temperature Time Series (1941-2010) for Asansol Weather Observation Station, West Bengal, India. *Atmospheric and Climate Sciences*, 4(1), 64-69. doi: 10.4236/acs.2014.41009.
20. Khan, A., Chatterjee, S., Bisai, D., & Barman, N.K. (2014) Analysis of Change Point in Surface Temperature Time Series Using Cumulative Sum Chart and Bootstrapping for Asansol Weather Observation Station, West Bengal, India. *American Journal of Climate Change*, 3(1), 83-94. doi: 10.4236/ajcc.2014.31007.
21. Chatterjee, S., & Khan, A. (2014) Morphological Analysis of A Historical Urban Landscape: The Case of Greater Gwalior City, Madhya Pradesh. *Asian Journal of Research in Social Sciences and Humanities*, 4(1), 127-136. ISSN: 2249-7315.
22. Khan, A., Chatterjee, S., & Bisai, D. (2014) Block Level Assessment of Human Vulnerability in PaschimMedinipur District, W.B: Regional Mapping of Social Contours Quantitively. *Journal of Business Management & Social Sciences Research*, 2(11), 5-11. ISSN: 2319 -5614.
23. Dolui, G., Chatterjee, S., & DasChatterjee, N. (2014) Weathering and Mineralogical Alteration of Granitic Rocks in Southern Purulia District, West Bengal, India. *Int. Res.J. Earth Sci.*, 2(4), 1-12. ISSN: 2321-2527.
24. Laha, A., Chatterjee, S., & Bera, K. (2014) Flood Hazard Impact Assessment on Societal Perspective: Case Study of Lower Catchment of Kalighai-Baghai and Kapaleswary River. *International Multidisciplinary e – Journal*, 3(4), 107-115. ISSN: 2277-4262.
25. Banerji, S., 2014. Sewage-fed fisheries under Private Ownership in the East Kolkata Wetlands: A Case Study. *International Journal of Advancements in Research and Technology*, 3(6), pp. 24-34.
26. Sengupta, S. Banerji, S., 2014. Prevalence of dry eye diseases in a rural and urban population in West Bengal and the role of air pollution. *Journal of Environmental Science, Toxicology and Food Technology*, 8 (6), pp. 45-50.

**2015**

5. Biswas M and Biswas A, Gis Based Semi-Quantitative Morphological Analysis Of Kankuram Basin, Ghatsila, International Research Journal Of Natural And Applied Sciences (Irnas). 2015, ISSN (e) : 2349-4077, Impact factor : 1.983(sjr)
6. Biawas. A and Biswas M, Morphometric And Landuse And Landcover Change Analysis Of Lokjuriya River Basin, Jharkhand, India Using Remote Sensing And Gis Technique. IOSR Journal Of Humanities And Social Science (IOSR-JHSS) Volume 20, Issue 7, Ver. V (July 2015), PP 77-85 e-ISSN: 2279-0837, p-ISSN: 2279-0845.
7. Das.SDali.K and Biswas M, Impact Of Metro Extension Over TollyNullah On Socioeconomic Behevoiriurial Changes- A Case Study Between Tollygunge And KaviSubhas Metro Station, Kolkata, Journal Of International Academic Research For Multidisciplinary Impact, Issn: 2320-5083, Volume 3, Issue 8, September 2015, Factor 1.625.
8. Biswas M. Impact Of Neotectonism In The Discussion Of Geomorphological Processes As A Feedback System: North Bengal Foothills, West Bengal, GSTF Journal of Geological Sciences Volume2,number1,July 2015, ISSN: 2335-6774, E-periodical: 2335-6782
9. Haque, I. and Patel, P.P. 2015. Socioeconomic and Cultural Differentials of of Contraceptive Usage in West Bengal: Evidence from National Family Health Survey Data. in Journal of Family History, Vol. 40, pp. 230 - 249. (Impact Factor: 0.068 - Thomson Reuters, 2015)
10. Datta, D. and Banerji, S., 2015. Local tourism initiative in an eastern Himalayan village: sustainable ecotourism or small-scale nature exploitation? In: Szymańska, D. and Rogatka, K. editors, Bulletin of Geography. Socio-economic Series, No. 27, Toruń: Nicolaus Copernicus University, pp. 33–49. DOI: <http://dx.doi.org/10.1515/bog-2015-0003>
11. Banerji, S., and Mitra, D., 2015, Conscious Hydrocide of Urban Waters – A Solution through Ethics and Economics of Sustenance: A Study of Salt Lake City, Kolkata. The International Journal of Environmental Sustainability, v. 11, Issue 4, p. 21- 45.

**List of conference publications last four years(Year wise and alphabetically)**

**2012**

1. Bhandari, L. & Roychowdhury, K. 2012. Night Lights and Economic Activity in India: A study using DMSP-OLS night time images. Asia-Pacific advanced Network (APAN) Workshop. New Delhi, India. (National) (Invited speaker)
2. Roychowdhury, K., Jones, S. J., Arrowsmith, C. & Reinke, K. 2012. Night-time lights and levels of development: A Study using DMSP-OLS Night-Time Images at the Sub-National Level. In: XXII ISPRS Congress, 25 August – 01 September 2012 Melbourne, Australia. International Archives of the Photogrammetry, Remote Sensing and Spatial Information Sciences, 93-98. (International) (Invited speaker)
3. Chakrabarty, P. and Das, S. (2012), “Disaster forecasting and GIS: A Case Study at Pelling, West Sikkim”, in ‘Journal of Interacademia’, Vol. 16, No. 2.
4. Das, S. and Roy, P.K. (2012), “Village Tourism in Sikkim, India: A Pre-colonial Approach for Sustainability” in ‘International Journal of Social Science Tomorrow’, Vol. 1, No. 4.
5. Das, S. Mandal, P.K. Ghosh, A. (2012), “Habitat, Society and Economy: A Study at Dzongu, North Sikkim”, in ‘Indian Journal of Landscape Systems and Ecological Studies’, Vol. 35, No. 2.
6. Mandal, P.K. and Das, S. (2012), “Tourism Dynamics in Alipurduar and Its Surroundings”, in ‘International Journal of Social Science Tomorrow’, Vol. 1, No. 5.
7. Sahu, A., Chatterjee, S., & Paul, A.K. (2012) Change in Cropping Pattern - A Temporal and Spatial Analysis in PurbaMedinipur District, W.B. Geographical Review of India.74(1), 17-26. ISSN: 0375-6386.

## Presidency University

### 2013

1. Herath, S., Abayakoon, S., Mishra, B., Woldie, D., Roychowdhury, K. 2013. Landslide Risk Assessment for Developing Community Resilience. Sri Lanka – Japan Collaborative Research (SLJCR) 2013; 29th – 31st March, 2013 (National) (Invited speaker)
2. Roychowdhury, K., Jones, S. D. 2013. Health Atlas of India: Study using night time satellite images. International Conference on Geospatial Momentum for Society and Environment: AGSE2013, 16-19 December 2013 (Organised by CEPT University, Ahmedabad, India) (National) (Invited speaker)
3. Patel, P.P. 2013, GIS Techniques for Landscape Analysis - Case Study of the Chel River Basin, West Bengal. in Proceedings of State Level Seminar on Geographical Methods in the Appraisal of Landscape, Dept. of Geography, Dum Dum Motijheel Mahavidyalaya, Kolkata, 20th March, 2012, pp. 1 – 14
4. Das, S. (2013), “Beach Quality Assessment: A Study at Puri Municipality Area, Odisha”, in ‘Journal of Interacademia’, Vol. 17, No. 1.
5. Das, K., Bera, K., & Chatterjee, S., (2013) Management of Water Resources in Urban Context of Contai Municipality Using Geoinformatics, West Bengal, India. International Multidisciplinary E-Journal, 2(2), 7-16. ISSN: 2277-4262.
6. Das, N., Chatterjee, S., & Roy, U. (2013) Habitat Based Ecological Analysis of Urban Space: An Appraisal for Gangtok Town, Sikkim. Journal of Ecology, Environment and Conservation. 19(3) 707-715. ISSN: 0971-766X.

### 2014

1. Roychowdhury, K., 2014. India and the Millennium Development Goals (MDGs): Modelling health and development from satellite images at the subnational level. In: Ames, D.P., Quinn, N.W.T., Rizzoli, A.E. (Eds.), Proceedings of the 7th International Congress on Environmental Modeling and Software, June 15-19, San Diego, California, USA. (International) (Invited speaker)
2. Biswas, M. Neotectonic and Geomorphology-A positive feedback system of North Bengal Foot hills, West Bengal. 23rd International Conference of geological and Earth Science, Singapore, September 22-23, 2014. pp- 25-32
3. Chakraborty, A., “Regional Disparity in the Railway Infrastructure in India”, National Conference, Osmania University, Hyderabad, August 22-23, 2014. pp-28-39

### 2015

1. Chatterjee, S., Patel P.P. “Quantifying Landscape Structure and Ecological Risk Analysis in Subarnarekha Sub-watershed, Ranchi”, Proceedings of UGC Sponsored National Seminar on Applications of Geospatial Technology for Sustainable Development, (University of North Bengal, Siliguri, February 13-14, 2015) (paper accepted)
2. Mondal, S., Sarkar, A., Patel P.P. “Causes of Drainage Congestion in Moyna Block, Purba Medinipur, West Bengal”, Proceedings of UGC Sponsored National Seminar on Applications of Geospatial Technology for Sustainable Development, (University of North Bengal, Siliguri, February 13-14, 2015) (paper accepted)

#### Synopsis of Publications:

Publications		2012	2013	2014	2015	Total
Paper (peer – reviewed)	National	2	2		1	5
	International	2	2	7	4	15
Books & Monographs	National			3		3
	International					
Articles in magazine/Newspaper		1	3	1		5

**5. Names of students with outstanding achievements and placements for higher studies (last four years)**

*Students joining other Institutions for further studies after MSc / BSc* **Tanusri Dutta, Adrita Banerjee** and **Devrupa Gupta** (all for M.P.S., IIPS, Mumbai); **Rupsa Chakraborti** and **Pinky Rome** (both for M.Plan, SPA, Bhopal); **Dibyendu Biswas** and **Pintu Kabiraj** (both for MPhil, IDSK, Kolkata); **Sayantani Mukherjee** (for PhD, Trinity College, Dublin); **Sayoni Mondal** (for PhD, Presidency University, Kolkata); **Koushik Bhui, Anindita Chakraborty, Chandrima Nandy, Asit Kumar Biswas** and **Rimpa Bhattacharjee** (all for B.Ed. studies), **Pooloma Ghosh** and **Priyanka Saha** (both for MA, JNU, New Delhi); **Ipsita Chanda** (for MA, DSE-DU, New Delhi); **Sayanangshu Modak** (for MSc, TISS, Mumbai)

*Students placed in professional positions (only from Postgraduates)* **Indrita Saha** (Assistant Professor, Darjeeling Government College, Darjeeling, WBES-PSC), **Partha Das** (Assistant Professor, A.B.N. Seal College, Koch Bihar, WBSES-PSC), **Sriparna Surai** (Ram Mohan College, Kolkata), **Madhurima Hait** (Teacher, Salt Lake CA School, Kolkata), **Saswata Pandey** (LIC, Kolkata), **Srija Ghosh** (Teacher, South End Centre School Kolkata), **Sonali Adhikari** (Editor, Ray & Martin Publishers, Kolkata), **Sanchari Saha** (Editor, ChayaPrakashani, Kolkata), **Binoy Chand** (CSO, ICICI Bank), **Partha Hawladar** (Axis Bank); **Koushik Bhui** (Advertisement Publisher, Google); **Dharitri Ganguly** (SBI)

**6. Special Assistance Received by the department (last four years)**

Scheme	Year of Sanction	Fund Sanctioned
DST – FIST	2015	55,00,000
CAS – UGC		
DBT		
Any other (State Govt.)	2014	38,00,000
Total		93,00,000

**A Brief History of the Department:**

The Department of Geography has been functioning since 1949. Initially, intermediate, pass and honours courses were introduced with part-postgraduate facilities. Full-fledged independent Postgraduate teaching began in 2001 with subsequent academic autonomy in 2004. Semester System with new syllabus was introduced in 2011 under the unitary University Status (2010), and the syllabus content has been completely restructured and revised from the 2014-15 Session onwards. The department has also commenced its PhD Programme from 2014 onwards. The Geographical Institute, a society of the past and present students and faculty was formed in 1970, and it organizes various departmental co-curricular activities. The departmental seminar library, set up in the late 1950s, contains over 2000 books and back-volumes of several national and international journals.

**Evaluative Report of the Department: Geology**

**1. Name of the Department : GEOLOGY**

**2. Year of establishment : 1892**

**3. Is the Department part of a School/Faculty of the university? :**

- Faculty of Natural and Mathematical Sciences

**4. Names of programmes offered (UG, PG, MPhil, PhD, Integrated Masters; Integrated PhD, DSc, DLitt, etc.) :**

- BSc (Hons) in Geology
- MSc in Applied Geology
- PhD (Science) (Geology, Env Science)

**5. Interdisciplinary programmes and departments involved :**

The Departments interdisciplinary programmes at undergraduate and doctoral levels:

- At the undergraduate level, there are four courses for each semester for first two years in the GENED programme of the BSc degree course. The courses are offered to students of both science and humanities faculties.
- At the PhD level, department offers interdisciplinary Environmental Science programme. The programme is open to all science graduates with chemistry as one of the subjects and a Master's degree in Env Sc or Geology.

**6. Courses in collaboration with other universities, industries, foreign institutions, etc.**

- Summer project is mandatory for MSc 1st year students. This project is usually carried out at different national level universities, institutes or industries. From the current academic year, students are also doing summer internship or Master's dissertation programme in collaboration with Hiroshima University as per MoU.

**7. Details of programmes discontinued, if any, with reasons**

- Environmental Science Master's programme has been temporarily withdrawn. The programme will resume with new faculty joining.

**8. Examination System: Annual/Semester/Trimester/Choice Based Credit System**

- The Department follows the CBCS semester system.

**9. Participation of the department in the courses offered by other departments**

- The faculty members of the department currently teach a particular module in Geography honours course. It has been planned to increase the interdepartmental faculty exchange between Geology and Geography particularly in common areas of the curriculum such as: in RS-GIS, Cartography and Projection system, Petrology and Geodynamics.



**10. Number of teaching posts sanctioned, filled and actual (Professors/Associate Professors/Asst. Professors/others)**

	Sanctioned	Filled	Actual (including CAS & MPS)
Professor	6	1	1
Associate Professors	5	5	5
Asst. Professors	19	1	1
Others		3	3

**11. Faculty profile with name, qualification, designation, area of specialization, experience and research under guidance**

Name	Qualification	Designation	Specialization	No. of Years of Experience	No. of PhD/ MPhil students guided for the last 4 years
Prof. Joydip Mukhopadhyay	PhD	Professor	Sedimentology	27	6
Dr. Gautam Ghosh	PhD	Associate Professor	Structural Geology	26	6
Dr. Arijit Ray	PhD	Associate Professor	Igneous Petrology	26	3
Dr. Sankar Bose	PhD	Associate Professor	Metamorphic Petrology	17	2
Dr. Kalyan Halder	PhD	Associate Professor	Paleontology	17	3
Dr. Nilanjan Dasgupta	PhD	Associate Professor	Structural Geology	17	2
Dr. Gautam Deb	PhD	Assistant Professor	Structural Geology	13	1
Arunava Basu	MSc	Associate Professor	Geohydrology	29	
Dr. Supriya Das (UGC-FRP)	PhD	Assistant Professor	Environmental Geology	3	
Dr. Nilanjana Sorcar (DST-INSPIRE)	PhD	Assistant Professor	Metamorphic Petrology	2	

**12. List of senior Visiting Fellows, adjunct faculty, emeritus professors - NIL**

**13. Percentage of classes taken by temporary faculty – programme-wise information**

Particulars	UG	PG	Research
Percentage of classes by temporary faculty	NIL	15	5

**14. Programme-wise Student Teacher Ratio**

- Ratio of Students to teachers: **UG: 7:1 PG: 4:1**

**15. Number of academic support staff (technical) and administrative staff: sanctioned, filled and actual**

Departmental Staff	Sanctioned	Filled	Actual
Technical		3	3
Administrative		4	4

**16. Research thrust areas as recognized by major funding agencies**

- In recognition of the long contribution in research of this department, the University Grants Commission, Govt. of India, has sanctioned the Centre for Advanced Studies (CAS) programme in the thrust area of “**Precambrian Crustal Evolution & Metallogeny**” for two successive terms from 2007 to 2018.

**17. Number of faculty with ongoing projects from a) national b) international funding agencies and c) Total grants received. Give the names of the funding agencies, project title and grants received project-wise. (Synopsis to be given here and full List in annexure)**

Funding Agency	No. of Projects	Fund received (last 2-years)
UGC	1	600000
DST	12	26155510
CSIR	1	350000
MOES	2	3256750
BRNS	2	5924500
Total (ongoing)	18	3,62,86,760

- Number of faculties with ongoing National projects: 9
- Number of faculties with ongoing International projects: 3
- Total grant received: Rs. 3.62 crore

**18. Inter-institutional collaborative projects and associated grants received**

a) National collaboration    b) International collaboration

1 (BESUS now IEST)-	Rs. 18 lakh	1 (Trinity College, Dublin)-	Rs. 6.0 lakh
1 (Jogomaya Devi College)-	Rs. 19.5 lakh	1 (Hiroshima University, Japan)-	Rs. 6.98 lakh
1 (Ashutosh College)-	Rs. 13.5 lakh	1 (Fed University, Brazil)-	Rs. 30.07 lakh
		(IODP)-	Rs. 2.0 lakh

**19. Departmental projects funded by DST-FIST; UGC-SAP/CAS, DPE; DBT, ICSSR, AICTE, etc.; total grants received.**

Scheme	Year of sanction	Duration	Fund Sanctioned
DST-FIST	2009-10	2014-15	13200000
CAS-UGC	2012-13	2017-18	15000000
Total			2,82,00,000

## 20. Research facility / centre with

- **state recognition :**

Petrological Laboratory named after late Prof. Ajit Saha and inaugurated by former Higher Education Secretary Dr. Jwahar Sorcar

- **national recognition :**

- The department has successfully completed the first phase of DST-FIST programme in 2009.
- The department has successfully completed the second phase of DST-FIST programme in 2014.
- The University Grants Commission, Govt. of India, has also sanctioned the Centre for Advanced Studies (CAS) programme in the thrust area of “Precambrian Crustal Evolution & Metallogeny” for two successive terms from 2007 to 2018.

- **international recognition :**

The department witnessed a significant increase in international collaborations as follows:

- DST-supported Indo-Brazil collaboration and exchange visits by faculty members and research scholars.
- DST-supported Indo-Japan project and exchange visits by faculty members and research scholars.
- Visit by Faculty members to Trinity College, Dublin on invitation and exchange programme of an international collaborative project.
- Faculty took part in International Ocean Drilling Project organized by NCAOR, Goa in collaboration with IODP, an international research consortium.
- MoU was signed with the Hiroshima University for collaborative research programmes and student exchange.
- Three JRFs visited Hiroshima University for a brief training in analytical techniques.
- Four more students from the third semester PG-course visited the Hiroshima University to use advanced analytical equipment related to Dissertation work.
- Similar student exchange programme is initiated with Orebro University, Sweden
- Another MoU with Shinshu University, Japan is under consideration at present

## 21. Special research laboratories sponsored by / created by industry or corporate bodies

- Remote Sensing and GIS Laboratory funded by Coal India Ltd.
- The department looks forward to major funding from various central agencies such as BRNS, MoES for upgradation of analytical facilities. The department in recent times defended two such major funding proposals through coordinated research programmes.

## 22. Publications: (List in annexure)

- Number of papers published in peer reviewed journals (national / international) - 31
- Monographs
- Chapters in Books- 2
- Edited Books
- Books with ISBN with details of publishers
- Number listed in International Database (For e.g. Web of Science, Scopus, Humanities International Complete, Dare Database - International Social Sciences Directory, EBSCO host, etc.)

## Presidency University

- Citation Index – range / average Range: 0 – 80
- SNIP- Range: 0.39 – 2.089
- SJR- Range: 0.29 – 2.744
- Impact Factor – range / average: Range: 0.00 – 6.023
- h-index - Range: 1– 13

### 23. Details of patents and income generated : Nil

### 24. Areas of consultancy and income generated

The department successfully completed two consultancy projects in the year 2013-2014.

- Project with SGS Industries generated an amount of 0.72 lakh
- Project with ONGC generated an amount of Rs. 7.6 lakh

### 25. Faculty selected nationally / internationally to visit other laboratories / institutions / industries in India and abroad

#### Prof. J. Mukhopadhyay:

- Visiting Professorship, University of Johannesburg (2010-2016)
- Collaborative Indo-Brazil research programme in Federal University of Minas Gerais, Brazil
- Collaborative research programme with Trinity College Dublin, funded by FEMS, TCD.
- TATA STEEL, OMC, ESSEL Mining

#### Dr. S. Bose:

- Visiting Scientist, Hiroshima University, 2014-2015, Indo-Japan bilateral collaboration
- Visiting Scientist, Yokohama National University, 2013, Indo-Japan bilateral collaboration

#### Dr. G. Ghosh

- Visiting Scientist, Hiroshima University, 2015
- Research programme with Trinity College Dublin, funded by FEMS, TCD.

#### Dr. Supriyo Das

- Visiting Scientist, Stockholm University Sweden, participated in the International Ocean Drilling Project programme organized jointly by NCAOR, Goa and IODP

### 26. Faculty serving in

#### a) National committees:

- Prof. J. Mukhopadhyay, Expert member UGC-CAS Committee
- Dr. N Dasgupta is an invited member of the group of scientists constituted by ISRO to work with Mars Orbiter Mission Data

#### b) International committees :

- Dr. S Bose is currently acting as the Chairperson of the East Chapter of the Indian JSPS Alumni Association.

#### c) Editorial Boards

d) any other (please specify) :

**Reviewers in International Journals:**

- Prof. J. Mukhopadhyay:

Economic Geology, Ore Geology Reviews, Asian Journal of Earth Sciences, Australian Journal of Earth Sciences, Sedimentary Geology, South American Journal of Earth Sciences, Spl Publ Geol Soc London, Journal of the Geol Soc of India

- Dr. Kalyan Halder

Journal of Earth System Science, Journal of the Geological Society of India

**UG and PG BoS of other universities:**

- Prof. J. Mukhopadhyay: Member BoS in Geological Sciences, Jadavpur University, PG BoS in Kazi Nazrul Islam University, Asansol, Member Faculty of Science, Nagaland University, Kohima, Member Expert Committee on Curricular Design in Geology North Bengal University

**27. Faculty recharging strategies (UGC, ASC, Refresher / orientation programmes, workshops, training programmes and similar programmes).**

- Workshop attended by Dr. Supriya Das organized by Schlumberger Limited

**28. Student projects (List in annexure)**

- percentage of students who have done in-house projects including inter-departmental projects
- percentage of students doing projects in collaboration with other universities / industry / institute
- All the students (100%) carry out in-house projects under the MSc dissertation paper
- All the students (100%) carry out summer projects in collaboration with other universities/industries/institutes.

**29. Awards / recognitions received at the national and international level by**

- Faculty :

Prof. J. Mukhopadhyay:

- INSA Teachers Award 2015;
- Visiting Professorship, University of Johannesburg (2010-2016)
- National Mineral Award-2008 (Recvd in 2010)

**Dr. S. Bose:**

- National Geoscience Award: 2014

**Dr. G. Ghosh**

- Visiting Scientist, Hiroshima University, 2015
- Doctoral / post doctoral fellows
- **Dr. Susmita Guha** was awarded the best poster presentation award at the National Seminar held at Presidency University in November, 2014
- Two research scholars (**Proloy Ganguly and Sneha Mukherjee**) received special research grant from **Hiroshima University, Japan** to visit and work in laboratories for a period of two weeks (March, 2015).

## Presidency University

- One research scholar (**Arnab Dasgupta**) visited the same university as a part of **DST-JSPS bilateral** project.
- Another research scholar (**Saheli De**) visited the Fed University of Minas Gerais, Belo Horizonte, Brazil as a part of DST-Brazil Govt. bilateral project.
- Students
  - Four **PG 1st year students** visited **Hiroshima University, Japan** under the **SAKURA** programme for three weeks in December 2015.
  - One PG 2nd year student (**Santanu Ghosh**) visited organic geochemistry facility at the **Orebro University, Sweden** for four weeks in 2014.

### 30. Seminars/Conferences/Workshops organized and the source of funding (national/international) with details of outstanding participants, if any. (List in annexure)

- The Department organized a National Seminar on “The Making of the Indian Continent” on 7-8 November 2014. More than 120 delegates attended the seminar from all over India.
- Invited Talks/Lectures
  1. “Research opportunities in Japan” by Prof. Hiroshi Hidaka, Earth and Planetary Systems Science, Hiroshima University, Japan on November 24, 2015.
  2. “The hypogene Fe mineralization in the Quadrilatero Ferrifero; mineralogical, textural and microchemical changes” by Prof. Carlos Alberto Rosiere, Federal University of Minas Gerais, Belo Horizonte, Brazil on December 22, 2014.
  3. “Meteorites: The poor Man’s Space Probe” by Dr. Basab Chattopadhyay, Director, Central Petrological Laboratory, Geological Survey of India on September 19, 2014 on the occasion of the 38th Prof. S. Ray Memorial Lecture organised by the Geological Institute.
  4. Prof. S Bardhan, S Roy Memorial Lecture, 2015 on ‘Darwin Today’
  5. Prof. D Duari, Director, Birla Planetarium, 2015, on ‘Mission to Mars

### 31. Code of ethics for research followed by the departments

- The department follows the standard code of ethics as practised in the university. The general principles for checking plagiarism have been introduced. Students and researchers are given the authorship for their contribution in Master’s or project-based research contribution. Department also promotes collaborative joint projects among the faculty members in areas of common interest and for the requirement of specific expertise for comprehensive solution of a problem. The authorship is shared and order of authorship is decided based on relative contribution.

### 32. Student profile programme-wise :

Name of the Programme (refer to question no. 4)	Applications received	Selected		Pass percentage	
		Male	Female	Male	Female
UG-I (2015-16)	848	18	12	100	100
PG-I (2015-16)	107	15	08	100	100
UG-I (2014-15)	1100	19	04	100	100
PG-I (2014-15)	244	14	07	100	100

Name of the Programme (refer to question no. 4)	Applications received	Selected		Pass percentage	
		Male	Female	Male	Female
PhD (2014-15)	62	05	09	100	100
UG-I (2013-14)	893	15	07	100	100
PG-I (2013-14)	130	12	07	100	100

**33. Diversity of students**

Name of the Programme (refer to question no. 4)	% of students from the same university	% of students from other universities within the State	% of from universities outside the State	students from other countries
PG	35	65		
PhD	80	20		

**34. How many students have cleared Civil Services and Defense Services examinations, NET, SET, GATE and other competitive examinations? Give details category-wise.**

- Students of this department are well accepted by all the private and public sector employers, universities and research institutes in India and abroad. Our students who graduate from this department pursue higher studies in science as well as technology disciplines of the top-class universities and IITs in the country. Many of them pursue further research and teaching careers. The main employers for the students remain Geological Survey of India, Oil and Natural Gas Commission, Mineral Exploration Corporation Ltd., Atomic Minerals Directorate, Steel Authority of India Ltd., Coal India etc. Private sectors include multinational companies in Oil and Gas sectors, companies in mineral explorations, environmental and water resource managements, Remote Sensing and GIS, iron and other metal mining etc. Following is their performances in national level examinations for last few years

National/State Level Exam	2012	2013	2014	2015	Total
NET	5	3	2	4	14
GATE	4	5	4	8	21
INSPIRE			2	1	3
Others (GSI, Private sector)	5	7	6	3	21

**35. Student progression (List in annexure)**

Student progression	Percentage against enrolled
UG to PG	100
PG to MPhil	-
PG to PhD	15
PhD to Post-Doctoral	5
Employed	
● Campus selection	25
● Other than campus recruitment	60
Entrepreneurs	-

## Presidency University

### 36. Diversity of staff

<b>Percentage of faculty who are graduates</b>	
of the same university (Presidency College)	80%
from other universities within the State	20%
from universities from other States from	
universities outside the country	

### 37. Number of faculty who were awarded MPhil, PhD, DSc and DLitt during the assessment period

Nil

### 38. Present details of departmental infrastructural facilities with regard to

#### a) Library

Books in the department library : **1050**

Journals/periodicals subscribed by the department : **04**

Computers in the department : **48**

#### b) Internet facilities for staff and students - Available

#### c) Total number of class rooms - 7

#### d) Class rooms with ICT facility - 5

#### e) Students' laboratories - 5

- The Student laboratories of the Geology Department are well equipped for basic undergraduate to postgraduate teaching as well as research at highest level. Basic equipment for teaching including petrological and paleontological microscopes, rock-cutting saw, grinder, thin slice cutter as well as polishing laps for polished thin-section preparation are available in the department. The department has a rare collection of fossil specimens representing micro and mega-fauna, palaeoflora and palynological specimens. The department provides essential field gear and camping equipment to students and researchers.

#### f) Research laboratories

- Scanning Electron Microscope (SEM) with EDS facility
- X-ray Fluorescence (XRF)
- Jaw Crusher, Pulverizer and Disc Mill for sample preparation
- Mineral separation laboratory with Isodynamic Barrier Separator
- High Resolution Petrological, Ore and Paleontological Microscopes including NIKON and LEICA-DMPLP petrological microscopes with photomicrographic attachments and digital image analysis software
- Remote Sensing Laboratory with ERDAS and ARC-INFO RS-GIS softwares
- High quality carbon coating instrument (Leica EM ACE200)
- Sample processing Laboratory (thin sectioning, sample polishing and rock pulverization)
- Central Computer Laboratory with internet facility



**39. List of doctoral, post-doctoral students and Research Associates**

a) from the host institution/university

Doctoral Students:

1. Tusharmouli Chakraborty
2. Sneha Mukherjee
3. Paramita Das
4. Saheli De
5. Keyur De
6. Proloy Ganguly
7. Arnob Mondal
8. Rana Bandyopadhyay
9. Sumit Dey

Post-doctoral Students:

1. Piyali Sengupta
2. Aditi Mondal
3. Sampa Ghosh

b) from other institutions/universities

Doctoral Students:

1. Bhaskar Ghosh, Jogamaya Devi College, Kolkata
2. Arnab Dasgupta, Manbazar Govt. College, West Bengal
3. Kalyan Chakraborty, AMD, Bangaluru
4. Brundaban Misra, AMD, Shillong
5. Ipsita Ghosh, GSI
6. Biplab Chakraborty, GSI, Kolkata
7. Sayantini Pramanik, GSI, Ranchi

**40. Number of post-graduate students getting financial assistance from the university.**

NA

**41. Was any need assessment exercise undertaken before the development of new programme(s)? If so, highlight the methodology.**

- Since the inception of the university, the Geology degree courses at both UG and PG levels have been revised twice. Each time a thorough assessment was carried through deliberations in the Board of Studies. External experts were invited for their opinion in workshops for syllabus modification. The faculty members associated with state level and national level selection processes assess the requirement. Regular interaction with mining industry also yields inputs for practical and job oriented direction of the UG-PG programmes.

## Presidency University

### 42. Does the department obtain feedback from

- a. faculty on curriculum as well as teaching-learning-evaluation? If yes, how does the department utilize the feedback?
  - Department utilizes feedback from faculty in periodic revision of the course structure.
- b. students on staff, curriculum and teaching-learning-evaluation and how does the department utilize the feedback?
  - Feedback form is obtained from students after semester examinations and is processed centrally at University office.
- c. alumni and employers on the programmes offered and how does the department utilize the feedback?
  - We obtain advices and suggestions from alumni and employers to change and formulate course structures periodically.

### 43. List the distinguished alumni of the department (maximum 10)

1. Prof. N. N. Chatterjee, Former Head, Department of Geology, Calcutta University
2. Prof. S. N. Sen, FNA, Former Head, Department of Geology, Calcutta University
3. Prof. A.K. Banerji, Former Head, Department of Geology, Calcutta University
4. Prof. A. De, Former Head, Department of Geology, Calcutta University
5. Prof. S. K. Sen, FNA, Former Head of the Department of Geology & Geophysics, IIT, Kharagpur
6. Prof. A. Mookerjee, FNA, Former Head of the Department of Geology & Geophysics, IIT, Kharagpur
7. Prof. K. Naha, FNA, Former Head of the Department of Geology & Geophysics, IIT, Kharagpur
8. Prof. S. N. Sarkar, FNA, Ex-Director, ISM, Dhanbad
9. Prof. S. Roy, FNA, Head of the Department of Geological Sciences, Jadavpur University
10. Prof. S. K. Ghosh, FNA, Department of Geological Sciences, Jadavpur University

### 44. Give details of student enrichment programmes (special lectures / workshops / seminar) involving external experts. (List in annexure)

- o The Semester system was introduced in both UG and PG courses in 2010.
- o The curriculum was designed in a fashion so that one gets both the breadth and depth of the subject
- o Ample space has been provided for project work, assignments and seminars
- o The subjects are arranged in different compulsory and elective modules, especially in PG. The elective modules encompass modern practices and state-of-the-art knowledge in all the branches of Earth Sciences and their applications. Students can choose the elective modules of their preferences depending on their career goals.
- o Compulsory modules are so planned that a student can get an overview of the subject. Core branches of Geology, their fundamental principles and primary information are dealt with here.
- o Industrial training as a part of the PG curriculum is retained from the previous syllabus so that a student gets hands-on training in application aspects of the subject. Students are further encouraged to do project work in industry during inter-semester breaks in the regular classes for more exposure.

- o Basics of research methodology, especially pertaining to geological investigations, have been introduced in the PG curriculum so that this course can act as the first step towards higher studies.
- o Students are encouraged to discuss with respective faculty members beyond classes in the run up to the preparation of assignments and seminars. Often they choose their own topics, which can represent interfaces of Geology with many other subjects.
- o A unique feature of the curriculum is the GenEd course where UG students from other disciplines including social sciences streams take a paper in Geology. Such topics of Earth Sciences are offered here that cater to the general knowledge of the Earth System - fundamental processes that are and were operative in the Earth and Biosphere.
- o Series of meetings, some with invited senior colleagues from other premier institutes, were convened to formulate this structure of the curriculum.

**45. List the teaching methods adopted by the faculty for different programmes.**

- Traditional blackboard-chalk method
- use of digital powerpoint projection
- seminar workshop by students
- interactive sessions
- rigorous fieldwork programme
- geological mapping
- Personal interactions beyond class hours, checking assignments, conducting class tests, student seminars, & field excursions. Special emphasis is given on field training. Best performer in fieldwork is awarded a cash prize.
- Faculty enrich themselves through consulting new books; consulting journals in different libraries and through the Internet; attending seminars, symposia and workshops, refresher courses, training programmes; direct interactions with colleagues, co-workers and teachers of different universities in the city, country and abroad, and interactions with professionals from industries.

**46. How does the department ensure that programme objectives are constantly met and learning outcomes are monitored?**

Programme efficiency is regularly discussed at several levels:

- at individual class level by the teacher concerned and the students participating to assess the need of the slow and advanced learners
- Periodic class tests, assignments, seminars by students
- Student-teacher Committee interaction
- End Semester examinations
- Practical courses with continuous assessment
- Since Geology is not taught at school level, the university curriculum has a course for the beginners in the honours syllabus. Introduction to Geology course for the first six months in the first year honours class ensures that students coming from different streams get adequate exposure to the basic domain of the subject.

## Presidency University

- o Tutorial classes, and individual assignments provide necessary remedial measures for slow learners.
- o Slow learners are encouraged to discuss their difficulties with respective teachers at individual levels outside class hours.
- o Seminars and special lectures are arranged frequently in the department delivered by eminent scholars from various parts of the world not only to enrich the advanced learners but also to expose all students to new frontiers of the subject.

### 47. Highlight the participation of students and faculty in extension activities.

- o All the faculty members have ongoing projects funded by different agencies.
- o Teachers are taking up new projects in challenging areas to contribute to the global database and knowledge in Geology and other streams of Earth Sciences.
- o Consultancies are carried out by the faculty members with organizations such as ONGC, SGS.
- o Faculty members are in interaction with industries like mining companies, oil & gas and exploration companies. Teachers present talks at mines and provide academic support in the form of reports & discussions to the mining professionals without any consultancy charges as per the present norms of the institute.
- o Seminars are organised regularly in the department.
- o Students are strongly involved in the organization of departmental seminars on topics of broad interests.
  - √ Students are actively involved in the functions of SPE and AAPG student chapters.
  - √ Bhuvudya and Geological Institute
  - √ SPE and AAPG
  - √ Quiz etc.
  - √ Games and Sports (intradepartmental)
  - √ Seminar organization
- o Students regularly take part in the geological programmes organised by other institutes, e.g., IIT, IISER, ISM, IISc.
  - The department nourishes a healthy and intimate teacher-student relationship. The traditional pedagogy of the department inculcates elements of research in young minds. The students are encouraged to express their scientific pursuits through various activities organized round the year under the aegis of a student body, the Geological Institute. The Geological Institute of the department is the oldest students' academic forum in the country and has remained the pride of the department since 1905. The students of this department are encouraged to express their academic interests through activities like quiz, seminars, slide shows and discussions under the umbrella of the Institute. The activities culminate to an Annual General Meeting where the departmental alumnus gets a chance to mingle with the young minds and help us to carry the flame forward. Conventionally, the office bearers of the Institutes are our present students who work under the able guidance of the faculties of the department. The institute publishes a yearly journal Bhuvudya, the contents of which are mostly written by students with the purpose of looking and knowing beyond the syllabus. Last year 55th volume of Bhuvudya was published.

### 48. Give details of “beyond syllabus scholarly activities” of the department.

The faculty members are actively engaged in different activities:

- Regular attendance at seminar/conference/workshops
- Resource person or invited speaker in national and international seminars

- reviewing manuscripts in reputed international journals
- regular research programmes funded by nodal agencies such as CSIR, DST, UGC, BRNS, MoES.
- Acting as committee members in national bodies, international societies (JSPS)
- Expert panel members/paper setters for PSC, CSC, UPSC examinations
- Regular interaction with mining industries
- Consultancy with industry
- Visiting scientist/Professor in Universities abroad.

**49. State whether the programme/ department is accredited/ graded by other agencies? If yes, give details.**

- Annual assessment by UGC-CAS expert
  - Periodic assessment by DST-FIST
  - Annual Report (University peers, Alumni, Guardians and students)
  - Peer review for research publications
  - Mid-term progress and final report for research projects by funding agency peers.
- ▶ The department successfully completed the first phase of DST-FIST programme in 2009. In appreciation of the successful completion of the first phase of FIST programme, the DST has recommended second phase FIST for the next five years. In recognition of the contribution in research the University Grants Commission, Govt. of India, has also sanctioned the Centre for Advanced Studies (CAS) programme in the thrust area of “Precambrian Crustal Evolution & Metallogeny” for two successive terms from 2007 to 2018. This year the department witnessed a significant increase in international collaborations. DST-supported Indo-Japan project was initiated and MoU was signed with the Hiroshima University for collaborative research programmes and student exchange. Three JRFs visited Hiroshima University for a brief training on analytical techniques. Four more students from the third semester PG-course will visit the Hiroshima University to use some advanced analytical equipments there. Similar programme under DST-supported Indo-Brazil collaboration was initiated this year with joint fieldwork in India and Brazil and exchange visits by faculty members and research scholars.

**50. Briefly highlight the contributions of the department in generating new knowledge, basic or applied.**

▶ **Basic Research**

- *Identification of oldest granite-greenstone succession in Indian subcontinent:* High-precision SHRIMP-ages have been generated and oldest well-preserved greenstone crustal blocks (3.51 Ga) in the Indian subcontinent, oldest true granite on Earth have been discovered. This has led to an important contribution to the Paleoproterozoic crustal evolution in global perspective. Nature and emplacement of subaqueous acid/intermediate pyroclastics was established for the first time in the world.
- *Evolution of early Atmosphere:* First record atmospheric oxygenation and discovery of 3.0 Ga oldest oxic paleosol, ‘Keonjhar Paleosol’
- *Record of long-lived subduction accretion processes encompassing India-east Antarctica-western Australia-Laurentia:* Granulites of Eastern Ghats Mobile Belt revealed hitherto unknown records of Paleo-Mesoproterozoic orogenesis (1.76-1.60 Ga) during the assembly of Proterozoic supercontinent Columbia. This discovery gives Eastern Ghats Mobile Belt a unique status of being a witness to making of all the three Proterozoic supercontinents.

## Presidency University

- *Application of magnetic anisotropy methods in identifying superposed deformation and stratigraphic correlation:* Application of AMS study in Paleo-Mesoarchean metalavas to establish stratigraphic correlation.
- *Ore genesis modeling as a tool for exploration:* The hypogene hydrothermal ore genetic model developed for the BIF-hosted high-grade iron ore deposits of India lead to the understanding of the mode of origin of ore bodies and their vertico-lateral extensions within the host rock. Structural geometry reconstructed from the host succession also lead to the understanding of the disposition of iron and manganese ore bodies in one of the major iron ore basins of India (Noamundi basin).
- *Facies modeling for U-paleoplacers:* Sedimentological facies modeling lead to the understanding of distribution of uraniferous units.

### ► Applied research

- Metallogenetic study has increased manifold the industry-academy interaction of this department. The hypogene ore genetic model on the BIF-hosted high-grade iron ores is now being tested by major mining industries and Geological Survey of India for establishing deep-seated hidden iron ore bodies. The genetic interpretation of different textural types of ores also explains the lateral variation among ore types, and thus became an important tool for quality control in the ROM.
- The facies modeling approach in a sequence stratigraphic framework for the first time developed and used for the U-exploration in India has been adopted by the AMDER (Atomic Minerals Directorate of Exploration and Research) for the exploratory drilling of the uraniferous QPC deposits in parts of the southern Singhbhum craton. The department is also collaborating with AMDER for similar facies-controlled sandstone-hosted U-mineralization in the younger Proterozoic and Phanerozoic strata.

### ► Research highlights and major breakthroughs

- Reconstruction of stratigraphy of the Precambrian successions in the cratonic nuclei and mobile belts with special emphasis on the Eastern Indian Shield using high precision techniques of geochronology and detailed mapping. Identification of oldest granite-greenstone succession in Indian subcontinent and oldest true granite in the world.
- Recognition and characterization of different magmatic and thermal events from the cratons and mobile belts of India using petrological, structural, geochemical and phase equilibria studies.
- Reconstruction of geodynamic milieu of Archean greenstone belts and Proterozoic cover sequences from collective sedimentological, structural and geochemical studies.
- Discovery of the Earth's oldest oxic paleosol and oldest atmospheric oxygenation event on Earth.
- Study of metallogeny with special reference to BIF-hosted high-grade iron ores and sediment-hosted Base Metal and Uranium deposits. Application of ore genetic models in guiding exploration.
- Life forms and evolution of Tertiary invertebrates from Kachchh District, Gujarat
- Management of environmental hazards such as arsenic and fluoride contamination in groundwater.
- Sedimentological and structural controls of uranium mineralization.
- Using Microwave remote sensing and hyperspectral analysis for probing petrological and morphotectonic evolution of Moon and Mars.

### ► Development of new research facilities

- New heavy media separation laboratory has been set up for research scholars and Post-graduate students.

- New microscopy laboratory containing ten (10) Nikon polaroid microscopes for Under-graduate and Post-graduate students.
- New organic geochemistry laboratory for research scholars and Post-graduate students.

**51. Detail five major Strengths, Weaknesses, Opportunities and Challenges (SWOC) of the department.**

**Strengths:**

- (1) Long tradition of practicing core subjects of Geology including field mapping
- (2) Excellent faculty, vibrant student community and illustrious alumni
- (3) Only college department (erstwhile Presidency College) to receive DST-FIST and UGC-CAS grants
- (4) Huge collection of natural specimens
- (5) Well-equipped laboratories with state-of-the-art basic instruments for teaching and research
- (6) Significant international collaboration and student exchange

**Weaknesses :**

- (1) Vacant teaching positions; high teaching load.
- (2) Requirement of technical positions for high-end instrumentation facilities for research
- (3) Residential facility to research scholars for long working hours
- (4) Serious space crunch for setting up new laboratory
- (5) Maintenance cost of high end instruments

**Opportunities:**

- (1) Installing instrumentation research centre in collaboration with DAE-BARC
- (2) Student exchange through MoU
- (3) New programmes under interdisciplinary research school
- (4) Participation of students in academic forums like AAPG, SPE
- (5) International collaborative projects

**Challenges:**

- (1) Continue research even under severe teaching loads
- (2) Involvement of more number of research students
- (3) Generate more resource through research fund and consultancy
- (4) Participate in global research programme like IODP
- (5) Involving Industries to install incubation hubs

**52. Future plans of the department.**

- o The focus of the teaching-learning-researching process of this department has always been on the study of the evolution of the Earth, its natural resources in terms of economic deposits, and origin and evolution of life.

## Presidency University

Important contributions were made towards understanding the basic and advanced knowledge in all these branches. Such contributions are still creating waves in the larger scientific community as one of the recent research outcomes from this department hinted towards very early oxygenation of the Earth's atmosphere, at least 500 million years ahead of the prevailing idea. The present demand of Earth Science as a subject is multipronged, with new branches emerging to address more complicated natural and social requirements. The department is aiming to adapt to these changes in the coming decades. Subjects like Remote Sensing and GIS, Planetary Science, River Dynamics will be taken up within the purview of teaching and research in a more regular manner.

- o A major application of the academic input is the field of mineral and fuel industry. The department will encourage students to undertake industrial projects to get exposed to real life issues. This will be done within the broad umbrella of Industry-Academia relationship, either in the mode of internship or through consultancy projects. This will additionally help to generate more funds for the department vis-à-vis university.
- o Academic research in the twenty first century requires very high-quality data. As the present research approach is towards generating such data from other high-end laboratories either by scientific collaboration or by payment from research schemes, large community of students are, however, left out of this practice as these instruments are not housed in the department. To meet this demand, the department is trying hard to build a state-of-the-art instrumentation centre with the help of funding authorities like MoES, BRNS, BARC which will not only boost the research of our students, but a larger community of scholars from other academic institutes and industry can also benefit from it. Preliminary steps have been taken through negotiations with the above-mentioned agencies.



**Annexures**

1. List of Research Projects in Last four Years

Sl. No	Year of Initiation	Year of Completion	Funding agency	PI	Title	Fund Sanctioned	Fund Received	Completed ongoing
1	2009	2013	BRNS	Prof. J. Mukhopadhyay	Sedimentological Controls On Uranium Mineralization In The QPC-Deposits Of The Southern Part Of The Daitari-Tamka Basin.	23,42,000	23,42,000	Completed
2			CSIR	Prof. J. Mukhopadhyay	Stratigraphy and geochemistry of Cherts, BIFs and Iron Ore of the Iron Ore Group, Singhbhum Craton	9,39,000	9,39,000	Completed
3	2012	2015	BRNS	Dr. G. Ghosh	Structural Control of Unconformity-proximal type Uranium Mineralization around Chitrial in the northern part of the Cuddapah basin, Andhra Pradesh	28,45,000	28,45,000	On going
4			DST	Dr. G. Ghosh	Stratigraphic, Structural and Palaeomagnetic analyses of the volcano-sedimentary successions between Noamundi and Nayagarh, western iron ore basin, Singhbhum craton	9,96,000	9,96,000	Completed
5			MoES	Dr. G. Ghosh	Study of the Sub-Himalayan Lower Cenozoic succession with special reference to the reconstruction of tectono-sedimentary history of Subathu basin.	8,00,000	8,00,000	On going
6			DST	Dr. G. Ghosh	Structural and stratigraphic analyses of the successions between the Singhbhum Granite and the Singhbhum Shear Zone in the Chakradharpur-Chaibasa-Jagannathpur sector: implications for tectono-stratigraphic evolution of a Precambrian craton-mobile belt boundary	19,56,000	19,56,000	Completed
7			DST	Dr. A. Ray	Mineralogical and Geochemical attributes of the magmatic rocks of Island belt, Kutch, Gujarat: implication on the early Deccan Volcanism and nature of subcontinental mantle	37,22,000	37,22,000	Completed
8	2015	2018	CSIR	Dr. S. Bose	Characterization of fluids during the evolution of granulites of Eastern Ghats Belt, India: estimations from solid assemblages and fluid inclusion study	14,00,000	5,00,000	On going

Sl. No	Year of Initiation	Year of Completion	Funding agency	PI	Title	Fund Sanctioned	Fund Received	Completed ongoing
9			DST	Dr. A. Ray	Petrological, geochemical and structural study of the peridotite, gabbro anorthosite suite and associated granophyres of Rakha, Mosabani, Bangripoti, Joshipur areas, Jharkhand-Odisha: implication for the tectonomagmatic evolution of the magmatic suite in eastern Indian Shield	31,42,000	31,42,000	On going
10	2011	2014	CSIR	Dr. S. Bose	Mobilization of an Archean craton margin during Proterozoic orogenic event(s) and its implication in crustal evolution: a case study from the Eastern Ghats Mobile Belt – Singhbhum Craton boundary zone around Tamka-Rengali, Orissa	18,00,000	18,00,000	Completed
11	2014	2017	BRNS	Dr. N. Dasgupta	Origin and Structural control of Uranium mineralisation in Palaeoproterozoic Bomdilla group, Upper Subansiri and west Siang districts, Arunachal Pradesh	48,53,500	48,53,500	On going
12			Dept. of Space, SAC	Dr. N. Dasgupta	Lunar Geology around Kopff crater, Mare Orientale basin	6,25,560	6,25,560	Completed
13			DST	Dr. Sampa Ghosh (DST-Woman Scientist)	Sedimentary provenance analyses of the .....nature of source terrain from Precambrian sedimentary rock record	24,05,000	24,05,000	Completed
14			DST	Dr. K. Halder	Taxonomy and Evolutionary Paleobiology of the Tertiary Mollusca of Kutch, Gujarat with special emphasis on Bivalvia	5,21,000	5,21,000	Completed
15			DST	Dr. K. Halder	Study of systematic, palaeoecology and palaeobiogeography of the Eocene mollusks from Kutch, Gujarat	22,00,000	22,00,000	On going
16			MoES	Dr. G.K. Deb	Paleoseismic interpretations from pseudotachylite microstructures: Studies from the Sarwar-Junia fault zone in central Rajasthan and validation from other occurrences	18,00,000	18,00,000	On going
17			DST	Dr. S. Das	Influence of Climate Change on Freshwater Lake-a Study in Lake Loktak, Manipur	26,00,000	26,00,000	Completed
18			UGC	Dr. S. Das	Start up grant	6,00,000	6,00,000	On going

Sl. No	Year of Initiation	Year of Completion	Funding agency	PI	Title	Fund Sanctioned	Fund Received	Completed ongoing
19	2014	2019	DST	Dr. N. Sorcar	Characterization of Mid-to-Deep Crustal Metamorphism and Melting under varying P-T-X-t conditions and its Applications to the Proterozoic Eastern Ghats Belt, India	35,00,000	7,00,000	On going
20			DST	Prof. H.N. Bhattacharya (retired faculty)	Evolution of the Archean Chitradurga Greenstone Belt, Karnataka, India	38,00,000	38,00,000	Completed
21			NESAC	Dr. A. Chatterjee (Ex-faculty)	Ground water prospect mapping on 1: 50000 scale for Malda District in West Bengal	75,000	75,000	Completed
22			DST	Dr. S. Chakrabarti (Ex-faculty)	Design Consideration and Field Performance Validation of High Arsenic Removal Water Filter Packed with Lab-Bench Developed Materials : A Lab-to-Field Technology Transfer Programme	19,46,600		Completed
23			MoES	Dr. S. Chakrabarti (Ex-faculty)	An Epistemology of Fluoride in the Fluvio-Coastal Sediments : A Potential Source for Groundwater Pollution in Andhra Pradesh Coast, South India	33,77,330		Completed
24			DST	Dr. S. K. Ray (Emeritus Scientist)	Microstructural studies of pseudotachylite in Sarwar-Junia fault zone	18,00,000		Completed
25			BRNS	Dr. S.K. Ray (Emeritus Scientist)	Structural and tectonic control of Albitite related uranium mineralization and associated metallogeny in Northern Rajasthan	14,05,650	14,05,650	Completed
26			CSIR	Dr. D.K. Paul (Ex-Emeritus Scientist)	A Geochemical and mineralogical study of Indian Kimberlites and related rocks and associated ultramafic xenoliths	7,98,000	7,98,000	Completed
27			INSA	Dr. D.K. Paul (Ex-Emeritus Scientist)	Geochronological and geological evolution of crust and its significance on lithospheric processes	4,35,000		Completed
28			DST	Dr. D.K. Paul (Ex-Emeritus Scientist)	Petrology & Geochemistry of mafic dykes in Rewa basin, central India: Implications for dispersal and migration of Deccan magma and nature of sub-continental mantle	20,58,000		Completed
29			MoES	Prof. A.B. Roy (Ex-Emeritus Scientist)	Early Precambrian Crustal history of Singbhum and implication for the oldest rock	8,00,000	8,00,000	Completed

Sl. No	Year of Initiation	Year of Completion	Funding agency	PI	Title	Fund Sanctioned	Fund Received	Completed ongoing
30			DST	Pampa Bhattacharya (DST-Woman Scientist)	Management performance of Arsenic saturated solid/sludge material	10,21,800		Completed
31			DST	Dr. Aditi Mondal (DST- Woman Scientist)	Ba- anomaly in hornblende gabbro: an unanswered question in geotectonics, NE Puruliya, West Bengal	22,10,000		On going
32			DST	Dr. Piyali Sengupta (DST-Woman Scientist)	Petrological, geochemical and geochronological studies of the mafic dykes within Singhbhum Granite around Chaibasa, Rairangpur, Jharkhand and Orissa, India	22,35,000		On going
33			MoES IODP bilateral	Dr. S. Das		2,00,000	2,00,000	Completed
34			TCD-Dublin	Prof. J. Mukhopadhyay	Geochronology of the granite-greenstone succession and cover sequence of the western Iron Ore Group, Singhbhum craton, eastern India: implications for the understanding of the early Precambrian crustal evolution	6,00,000	6,00,000	Completed
35	2014		DST-Brazil Govt. Bilateral	Prof. J. Mukhopadhyay	BIF and BIF-hosted High-grade Iron Ore Deposits: A Comparative Study of Ore Genetic and Quality Control Attributes for Understanding the Giants of Brazil and India	35,00,000	35,00,000	On going
36	2014	2016	DST-JSPS Bilateral	Dr. S. Bose	Archean craton-margin orogenic events and SHRIMP age dating: geodynamic significance of India during Ur and Columbia supercontinents	6,98,000	5,75,000	On going

## 2. List of Seminars and Conferences Organized in last three years

Sl No.	date/ Month	Topic	Source of Funding	Status (Local/ State/national level) (student enrichment programme)
1	14th September, 2012	Geochemical Mapping (GCM) of India by <b>Dr. Balaram Chattopadhyay</b> , Retired Deputy Director General, Geological Survey of India	Geological Institute, Presidency University	Local

Sl No.	date/ Month	Topic	Source of Funding	Status (Local/ State/national level) (student enrichment programme)
2	1st May, 2012	Arc-arc collision in central Japan by <b>Prof. Makoto Arima</b> of Yokohama National University	Department of Geology, Presidency University	Local
3	4th March, 2013	Deformation features of Asian continent due to the collision of India by <b>Prof. Y. Otofujii</b> , Kobe University, Kobe, Japan	Department of Geology, Presidency University	Local
4	26th July 2013	Global Climate Change and Carbon Cycle: Should we be concerned by <b>Dr. Prabir Kr. Patra</b> , Senior Scientist, JAMSTEC, Japan	Department of Geology, Presidency University	Local
5	31st July 2013	Fundamental Principles of Radioactivity applications in Earth Science by <b>Dr. David R. Nelson</b> , University of Western Sydney, Australia	Department of Geology, Presidency University	Local
6	20th September, 2013	Implication of Landforms in Regional and Local Context by <b>Dr. Sujit Kumar Mazumder</b> Sr. Dy. DG, GSI (Retd)	Geological Institute, Presidency University	Local
7	4th November, 2013	Planktonic foraminiferal dynamics in the eastern Arabian Sea as a proxy of the south-west monsoonal activity in Indian sub continent during the last millennium by <b>Prof. Ashish Sarkar</b> , Pandit Deen Dayal Petroleum University, Gandhinagar, Gujarat	Department of Geology, Presidency University	Local
8	19th September, 2014	Meteorites: The poor Man's Space Probe by <b>Dr. Basab Chattopadhyay</b> , Director, Central Petrological Laboratory, Geological Survey of India	Geological Institute, Presidency University	Local
9	7-8th November 2014	National Seminar on " <b>The Making of the Indian Continent</b> "	Department of Geology, Presidency University	National
10	24th November, 2015	Research opportunities in Japan by <b>Prof. Hiroshi Hidaka</b> , Earth and Planetary Systems Science, Hiroshima University, Japan	Department of Geology, Presidency University	Local
11	22nd December, 2014	The hypogene Fe mineralization in the Quadrilatero Ferrifero; mineralogical, textural and microchemical changes by <b>Prof. Carlos Alberto Rosiere</b> , Federal University of Minas Gerais, Belo Horizonte, Brazil	Geological Institute, Presidency University	Local
12	7th September, 2015	Darwin Today by <b>Prof. Subhendu Bardhan</b> , Jadavpur University, Kolkata	Geological Institute, Presidency University	Local
13	22nd December, 2015	Mission to Mars by <b>Dr. Debiprasad Duari</b> , Director, Academics and Research, Birla Planetarium	Geological Institute, Presidency University	Local

3. Seminar workshops attended by teachers of the Department in last three years (chronologically)

Sl. No.	Name of the Teacher	Title of Seminar	Date	Organized by	Status (National/ International)	Role as Resource person /Invited Speaker
1	A.Ray	Geology of Kachch	Jan, 2012	DST & ONGC	National	Invited speaker
2	J. Mukhopadhyay	Recent developments and future challenges of Geochemistry and Geophysics: Indian Scenario	22-24 Feb, 2012	Benaras Hindu University (BHU)	National	Invited Speaker
3	H. N. Bhattacharya	Lecture series for postgraduate students of Geology Department of Kumaun University	March, 2012	Geology Department of Kumaun University	National	Visiting Professor
4	J. Mukhopadhyay	Recent Advances in Geology of Dongargarh-Kotri Belt and Mineral Potential	21-22 June, 2012	Gondwana Geological Society & AMD, Nagpur	National	Invited Speaker
5	J. Mukhopadhyay	Sedimentological controls of QPC hosted uranium mineralisation in the Mahagiri quartzite, southern part of Daitari-Tomka basin, Jaipur, Orissa	Sept, 2012	TPDM OF AMD-BRNS PROJECTS	National	Invited Speaker
6	G. Ghosh	Structural control of unconformity-proximal type uranium mineralization in the north western part of the Srisailam sub-basin, Andhra Pradesh	Sept, 2012	TPDM OF AMD-BRNS PROJECTS	National	Invited Speaker
7	G. Ghosh & N. Dasgupta	Rock Deformation and Structures (RDS-II)	1st to 3rd Oct, 2012	SGTSGI in University of Lucknow	National	Paper Presentation
8	H. N. Bhattacharya	UGC Sponsored Seminar	Dec, 2012	Hooghly Mohsin College	National	Invited Speaker
9	S. Bose	International Seminar on Recent Advances in Energy, EEMR-13, at IMMT, Bhubaneswar	12-13 Aug, 2013	IMMT, Bhubaneswar	International	Paper Presentation
10	J. Mukhopadhyay & G. Ghosh	Goldschmidt Conference, Florence, Italy	24-30 Aug, 2013	Geochemical Society & European Association of Geochemistry	International	Paper Presentation
11	S. K. Das	65th Meeting of International Committee for Coal and Organic Petrology (ICCP), Sosnowiec, Poland	23 Aug-4th Sept, 2013	Faculty of Earth Sciences in Sosnowiec	International	Paper Presentation

Sl. No.	Name of the Teacher	Title of Seminar	Date	Organized by	Status (National/ International)	Role as Resource person /Invited Speaker
12	S. K. Das	26th International Meeting on Organic Geochemistry (IMOG) Tenerife, Spain.	16-20 Sept, 2013	European Association of Organic Geochemists (EAOG)	International	Paper Presentation
13	N. Dasgupta & S. Bose	Golden Jubilee Year Celebration of the Indian Geophysical Union (IGU) Meeting at Jadavpur University, Kolkata	28-29 Nov, 2013	Indian Geophysical Union	National	Resource Person
14	S. K. Das	30th Convention of Indian Association of Sedimentologists, Imphal, India.	28-30 Nov, 2013	Department of Earth Sciences, Manipur University	National	Paper Presentation
15	J. Mukhopadhyay & G. Ghosh	American Geophysical Union (AGU) Fall Meeting, San Francisco, USA	9-13 Dec, 2013	American Geophysical Union (AGU)	International	Paper Presentation
16	S. Bose	American Geophysical Union (AGU) Fall Meeting, San Francisco, USA	9-13 Dec, 2013	American Geophysical Union (AGU)	International	Paper Presentation
17	A. Ray & N. Dasgupta	EGU General Assembly 2014, Vienna, Austria	April 27 – May 2, 2014	European Geosciences Union (EGU)	International	Paper Presentation
18	S. Bose	Asia Oceania Geosciences Society 11th Annual Meeting (AOGS2014), Sapporo, Hokkaido, Japan	July 28-Aug 1, 2014	Asia Oceania Geosciences Society (AOGS)	International	Paper Presentation
19	S. Bose	Annual Meeting of the Japan Association of Mineralogical Sciences, Kumamoto University, Japan	Sept 17-19, 2014	Kumamoto University, Japan	International	Paper Presentation
20	S. Bose	7th International SHRIMP Workshop at NIPR, Tokyo	Sept 27-Oct 1, 2014	National Institute of Polar Research (NIPR), Japan	International	Paper Presentation
21	G. Ghosh	Rock Deformation and Structure (RDS)-III, Assam, India	Nov, 2014	Dibrugarh University	National	Paper Presentation
22	S. K. Das	National Conference on Quaternary climate change: new approaches and emerging challenges BSIP, Lucknow, India	15-16 Dec, 2014	Birbal Sahani Institute of Palaeobotany (BSIP)	National	Paper Presentation
23	G. Ghosh & K. Halder	National Conference on 'Paleogene of the Indian Subcontinent', Lucknow	23-24 April, 2015	Birbal Sahani Institute of Palaeobotany (BSIP) & Geological Survey of India (GSI), Lucknow	National	Paper Presentation

**4. List of Publications in papers ( peer-reviewed only), Books, Monographs, Last Four Years**

**2012**

- 1 Chaudhuri, A. K., Deb, G. K., Patranabis-Deb, S., and Sarkar, S., 2012, Paleogeographic and tectonic evolution of the Pranhita-Godavari Valley, Central India: A stratigraphic perspective. *American Journal of Science*, v. 312, p. 766-815. (Citation Index: 5; Impact factor: 2.917; SNIP: 1.536; SJR: 1.89.).
2. Das, K., Bose, S., Karmakar, S. and Chakraborty, S., 2012, Petrotectonic framework of granulites from northern part of Chilka Lake area, Eastern Ghats Belt, India: Compressional vis-à-vis transpressional tectonics. *Journal of Earth System Science*, v.121, p. 1-17. (Citation Index: 2; Impact factor: 0.70).
3. Das, S.K., Bendle J. and Routh, J., 2012, Evaluating branched tetraether lipid-based paleotemperature proxies in an urban, hyper-eutrophic and polluted lake in South Africa. *Organic Geochemistry* v. 53, p.45-51. (Citation: 7; Impact factor: 3.072; SNIP: 1.367; SJR: 1.274)
4. Dasgupta, N., Mukhopadhyay, D. and Bhattacharyya, T., 2012, Analysis of superposed strain: A case study from Barr Conglomerate in the South Delhi Fold Belt, Rajasthan, India, *Journal of Structural Geology*, v. 34, p. 30-42. (Citation Index: 3; Impact factor: 2.388; SNIP: 1.39; SJR: 1.49).
5. Halder, K., 2012, Cenozoic fossil nautiloids (Cephalopoda) from Kutch, western India. *Palaeoworld*, v. 21, p. 116-130. (Citation Index: 3, Impact Factor: 0, SNIP: 0.974, SJR: 0.465).
6. Mukhopadhyay, J., Ghosh, G., Zimmermann, U., Guha, S and Mukherjee T., 2012, A 3.51 Ga bimodal volcanic-BIF-ultramafic succession from Singhbhum Craton: implications for Palaeoarchean geodynamic processes from the oldest greenstone succession of the Indian subcontinent. *Geological Journal*, v. 47, p. 284-311 (Citation Index: 13; Impact factor: 1.083; SNIP: 0.724; SJR: 0.811).
7. Sengupta, P. and Ray, A., 2012, Newer Dolerite dykes, Jharkhand, India: a case study of magma generation, differentiation and metasomatism in a subduction zone setting. *Geochemical Journal*, v. 46, p. 477-491, (Citation Index: 1; Impact Factor: 1.505; SNIP: 1.136; SJR: 0.623).

**2013**

1. Chakrabarti, K, Ecka, N. R. R.1, Mishra, B., Kumar M.K., Katti, V. J., Umamaheswar, K., Parihar, P. S., Mukhopadhyay,J., and Ghosh, G., 2013, Gold, silver and platinum group of elements mineralization in Precambrian uraniferous quartz-pebble conglomerates of Mankarhachua area, Angul District, Odisha. *Current Science*, v. 105, p. 978-983 (Citation Index: 1; Impact factor: 0.926; SNIP: 0.771; SJR: 0.293).
2. Das, K., Tomioka, N., Bose, S. and Ando, J.I., 2013, On oriented ilmenite needles in garnet porphyroblasts from deep crustal granulites: implications for fluid evolution and cooling history. *Lithos*, v.156-159, p. 230-240. (Citation Index: 3; Impact factor: 4.416; SNIP: 1.621; SJR: 2.145).
3. Dasgupta, S., Bose, S. and Das, K., 2013, Tectonic evolution of the Eastern Ghats Belt. *Precambrian Research*, v. 227, p. 247-258. (Citation Index: 38; Impact factor: 5.823; SNIP: 1.795; SJR: 2.613).
4. Deb, G. K., 2013, Discussion of Saha et al. (2012, *Precambrian Research*) Tectono-magmatic evolution of the Mesoproterozoic Singhora basin, central India: Evidence for compressional tectonics from structural data, AMS study and geochemistry of basic rocks. *Precambrian Research*, v. 230, p. 248-257. (Citation Index: 2; Impact factor: 6.023; SNIP: 1.795; SJR: 2.613).
5. Mukhopadhyay, J, Crowley, Q.C., Ghosh, G., Ghosh. S., Chakrabarti, K, Mishra, B., and Bose, S., 2013, A Mesoarchean Paleosol from Eastern India—the Second Oldest Paleosol on Earth. *Mineralogical Magazine*, v.77, p. 1802. (Impact factor: 3.5; SNIP: 0.773; SJR: 0.564).
6. Sarbajna, C., Bose, S., Rajagopalan, V., Das, K., Som, A., Paul, A.K., Shivkumar, K., Umamaheswar, K. and Chaki, A., 2013, U-Cr-rich high Mg-Al granulites from Karimnagar Granulite Belt, India: implications for



Neoproterozoic-Paleoproterozoic events in the Southern India. *Mineralogy and Petrology*, v. 107, p. 553-571. (Citation Index: 4; Impact factor: 1.414; SNIP: 0.738; SJR: 0.766).

## 2014

1. Crowley, Q.G., Mukhopadhyay, J., Ghosh, S., Ghosh, G., Chakrabarti, K., Misra, B., Heron, K. and Bose, S., 2014, Oxygenation of the Archean atmosphere: New paleosol constraints from eastern India: REPLY. *Geology*, v. 43, p. e367-e368. (Citation Index: 0; Impact factor: 4.539; SNIP: 1.79; SJR: 2.744).
2. Halder, K., and Sinha, P., 2014. Some Eocene cerithioids (Gastropoda, Mollusca) from Kutch, western India, and their bearing on paleobiogeography of the Indian subcontinent. *Paleontology Journal*, v. 2014; p. 11.
3. Mukhopadhyay, J., Crowley, Q., Ghosh, S., Ghosh, G., Chakrabarti, K., Misra, B., Heron, K. and Bose, S., 2014, Oxygenation of the Archean atmosphere: new paleosol constraints from Eastern India, *Geology*, v. 42, p. 923-926 (Citation Index: 9; Impact factor: 4.539; SNIP: 1.79; SJR: 2.744).
4. Ruj, T., and Dasgupta, N., 2014, Tectonic imprints within granite exposed near Srinagar, Rajasthan, India. *Journal of Earth System Science*, v. 123, p. 1361-1374 (Citation Index: 1; Impact factor: 1.040).
5. Sengupta, P., Ray, A., and Pramanik, S., 2014, Mineralogical and Chemical Characteristics of Newer Dolerite Dyke around Keonjhar, Orissa: implication for hydrothermal activity in subduction zone setting. *Journal of Earth System Science*, v. 123, p. 887–904 (Citation Index: 0; Impact factor: 1.04; SNIP: 0.939; SJR: 0.467).
6. Sorcar, N., Hoppe, U., Dasgupta, S., and Chakraborty, S., 2014, High temperature cooling history of migmatites from the High Himalayan Crystallines in Sikkim, India –Rapid cooling unrelated to exhumation? *Contributions to Mineralogy and Petrology*, v.167, p. 957. (Citation Index: 17; Impact Factor: 3.484).

## 2015

1. Amarasinghe, U., Chaudhuri, A., Collins, A. S., Deb, G., Patranabis-Deb, S., 2015, Evolving provenance in the Proterozoic Pranhita-Godavari Basin, India. *Geoscience Frontiers*, v. 6, p. 453-463. (Citation Index: 6; Impact factor: 3.105, SNIP: 1.216; SJR: 1.271).
2. Bose, S., Guha, S., Ghosh, G., Das, K. and Mukhopadhyay, J., 2015, Tectonic juxtaposition of crust and continental growth during orogenesis: Example from the Rengali Province, eastern India. *Geoscience Frontiers*, v. 6, p. 535-555 (Citation Index: 0; Impact factor: 3.105; SNIP: 1.216; SJR: 1.271).
3. Chakraborti, T.M., Ray, A, and Deb, G.K., 2015, Crystal Size Distribution analysis of plagioclase from gabbro-anorthosite suite of Kuliana, Orissa, eastern India: implications for textural coarsening in static magma chamber. *Geological Journal*, DOI: 10.1002/gj.2752. (Citation Index: 0; Impact factor: 1.083; SNIP: 0.724; SJR: 0.811).
4. Chaudhuri, A. K., Deb, G. K., Patranabis-Deb, S., 2015, Conflicts in stratigraphic classification of the Puranas of the Pranhita–Godavari Valley: review, recommendations and status of the ‘Penganga’ sequence. Mazumder, R. & Eriksson, P. G. (eds): *Precambrian Basins of India: Stratigraphic and Tectonic Context*. Geological Society, London, *Memoirs*, v. 43, p. 165–183. (Citation Index: 3; Impact factor: 2.58; SNIP: 1.536; SJR: 1.89).
5. Das, S.K., Routh J. and Roychoudhury, A.N., 2015, Biogeochemistry of shallow lake sediments: a case study from Verlorenvlei, South Africa. *Current Science*, v.109, p. 1486-1491. (Citation Index: 0; Impact Factor: 0.926; SNIP: 0.771; SJR: 0.293).
6. De, K., Kundu, A., Chauhan, P. and Dasgupta, N., 2015, An example of consistent palaeostress regime resulting in morphometric irregularity in the north-western part of Noachis Terra, Mars. *Current Science*, v. 108, p. 2156-2159 (Citation Index: 3, Impact factor: 0.926; SNIP: 0.771; SJR: 0.293).
7. De Kock, M., Beukes, N.J., Mukhopadhyay, J., 2015, Palaeomagnetism of Mesoproterozoic limestone and shale successions of some Purana basins in southern India. *Geological Magazine*, Cambridge University Press, p. 1-23. doi:10.1017/S0016756814000727 (Citation Index: 0; Impact factor: 2.482; SNIP: 1.121; SJR: 1.198).

## Presidency University

8. Ghosh, G. Ghosh B., Mukhopadhyay, J., 2015, Palaeoarchaean-Mesoproterozoic sedimentation and tectonics along the west-northwest margin of the Singhbhum Granite body, eastern India: a synthesis. published in Precambrian Basins of India: Stratigraphic and Tectonic Context (Eds. R Majumder and P G Eriksson), Geological Society of London, Special Memoir No. 43, p. 121-138 (Citation Index: 3, Impact Factor: 0).
9. Halder, K., and Bano, S., 2015, Cenozoic Corbulidae (Bivalvia, Mollusca) from the Indian subcontinent - palaeobiogeography and revision of three species from Kutch, India, Arabian Journal of Geosciences, v. 8, p. 2019-2034. DOI: 10.1007/s12517-014-1362-6. (Citation Index: 1, Impact Factor: 1.224, SNIP: 0.606, SJR: 0.29).
10. Mandal, A., and Ray, A., 2015, Petrological and geochemical study of Ultramafic-mafic rocks from North Puruliya Shear Zone, eastern India. Journal of Earth System Science (in Press). (Impact factor: 1.04; SNIP: 0.939; SJR: 0.467).
11. Mukhopadhyay, J., Mishra, B., Chakrabarti, K, De, S., and Ghosh, G., 2015, Uraniferous palaeoplacers of the Mesoarchaean Mahagiri Quartzite, Singhbhum Craton, India: Depositional controls, nature and source of >3.0 Ga detrital uraninites. Ore Geology Reviews, <http://dx.doi.org/10.1016/j.oregeorev.2015.05.20> (Citation Index: 1; Impact factor: 3.558; SNIP: 2.089; SJR: 1.626)
12. Sen, G., Hames, W.E., Paul, D.K., Biswas, S.K., Ray, A., and Sen, I.S., 2015, Pre-Deccan and Deccan Magmatism in Kutch, India: Implications of new <sup>40</sup>Ar/<sup>39</sup>Ar ages of intrusions. Journal of Geological Society of India. (in press). (Impact factor: 0.596; SNIP: 0.716; SJR: 0.351)

## 5. List of Conference Publications Last Four Years

### 2015

1. Ghosh, G., **Bose, S.**, Mukhopadhyay, J., 2015, Deformation imprints and remobilization along Singhbhum cratonic margin: implications on growth and craton margin processes, abstract volume of the Workshop on Geodynamics of the Singhbhum Craton: present status and future directions. NGRI, Hyderabad, 14-15, December 2015. **(National)**.
2. Chatterjee, A., Hidaka, H., Das, K., **Bose, S.**, 2015, Geochronology (zircon U-Pb SHRIMP IIe and monazite CHIME-EPMA) of western boundary of Eastern Ghats Granulite Belt, India. Abstract volume of the Annual Meeting of the Japan Geoscience Union (JPGU), May 2015. (International).
3. Bose, S., Seth, P., Dasgupta, N., 2015, Meso-Neoproterozoic mid-crustal metamorphism from the Ajmer-Shrinagar section, Rajasthan, India and its implication to assembly of Greater Indian landmasses during the Grenvillian orogenesis in XII International Symposium on Antarctic Earth Sciences at Goa, India, July 13-17, 2015, abs. v. S05-197, p. 95. (International).
4. Bose, S. Das, K, Arima, M., Torimoto, J., 2015, The ca. 780 Ma reworking of the UHT metamorphosed lower crust of the Eastern Ghats Belt and its implication for the breakup of Rodinia in XII International Symposium on Antarctic Earth Sciences at Goa, India, 13-17 July, 2015, abs. v. S05-196, p. 94 (International).
5. Dasgupta, S., Bose, S., Bhowmik, S.K., 2015, India- East Antarctica connection re-visited in XII International Symposium on Antarctic Earth Sciences at Goa, India, July 13-17, 2015, abs. v. S05-66, p. 91 (International).
6. Hazra, M., Gangopadhyay, K., Das, S.K., 2015, Geochemical studies of archaeological potteries (fine ware) from coastal India in International Conference on Contemporary Advances of Science and Technology, Banaras Hindu University, Varanasi, India, 7-9 August, 2015. (national)
7. Gupta, H., Agrahari, S., Das, S.K. 2015, Temporal Variation in the Sediment Discharge of the Large Indian Peninsular Rivers and the Influence of Human Activities. International Conference on Contemporary Advances of Science and Technology, Banaras Hindu University, Varanasi, India, 7-9 August, 2015. (national)

8. Ghosh, S., Das, S.K., Tripathi, S., Basumatary, S.K., Ghosh, R., Thakur, B., Singh, M.C., Kushwaha, R.A.S., Agrahari, S., 2015, Ecological interpretation of stable carbon and nitrogen isotopes ( $\delta^{13}\text{C}$  and  $\delta^{15}\text{N}$ ) of bulk organic matter in sediments of Lake Loktak, Manipur, India. International Conference on Contemporary Advances of Science and Technology, Banaras Hindu University, Varanasi, India, 7-9 August, 2015. (national)
9. Varma, A.K., Misra, S., Chakraborty, S., Das, S.K., Hazra, B., Patil, B.J., Singh, B.D., Biswas, S., Samad, S.K., 2015, Effect of igneous intrusion on hydrocarbon generation behavior of coal seam in Jambad area, Raniganj basin, India in 67th Annual Meeting of the International Committee for Coal and Organic Petrology, Potsdam, Germany, 5-11 September, 2015. (International)
10. Das, S.K., Adhikari, R., France-Lanord, C., Spiess, V., Schwenk, T., Klaus, A., IODP Expedition 354 Science party, 2015, Characterisation of organic matter to understand methanogenesis in Bengal Fan Sediments, in: 52nd Annual Convention of Indian Geophysical Union, Goa, India, 3-5 November, 2015. (national)
11. Mitra, S., Halder, K., 2015, Study of bioerosion and encrustation from the Middle Eocene of Kutch, Gujarat and its bearing on basin evolution, in National Conference on Paleogene of the Indian subcontinent, Lucknow, 23-24 April, 2015. (National)
12. Sinha, P., Halder, K., 2015, The Oligocene corals had circumtropical distribution, in National Conference on Paleogene of the Indian subcontinent, Lucknow, 23-24 April, 2015. (National)
13. Ghosh, I., Halder, K., 2015, Biostratigraphical, Palaeoecological and Palaeobiogeographical significance of *Venericardia Lamarck 1801 sensu lato* (*Bivalvia, Carditidae*) from the Paleogene of western India, in National Conference on Paleogene of the Indian subcontinent, Lucknow, 23-24 April, 2015. (National)
14. Mukhopadhyay, J., Ghosh, G., 2015, An overview on the Archean Stratigraphic development in the Singhbhum craton: National Workshop on Singhbhum Geology, NGRI, Hyderabad, 14-15 Dec. (National) (Invited speaker)

## 2014

1. Das, K., Bose, S., Hidaka, H., 2014, ~800 Ma circum Indian cratonic-margin orogenic event and associated crustal growth in the 7th International SHRIMP Workshop at NIPR, Tokyo during 27 September-October 1, 2014 (International).
2. Das, K., Kayama, M., Bose, S., Hidaka, H., 2014, Zircon: integrating U-Pb SHRIMP data, SEM-CL and micro-laser Raman spectral data to differentiate magmatic, metamorphic growths and metasomatic zones in Annual Meeting of the Japan Association of Mineralogical Sciences (International).
3. Bose, S., Ghosh, G., Dasgupta, A., Das, K., 2014, Growth and Evolution of Craton Margin Mobile Belt: Evidence from Rengali Province, Eastern India in Asia Oceania Geosciences Society 11th Annual Meeting, Sapporo, Hokkaido, Japan, 28 July-01 August, 2014, abs. v. SE41-A057. (International)
4. Das, S.K., Ghosh, S., Nautiyal, C.M., Tripathi, S., Basumatary, S.K., Ghosh, R., Thakur, B., Singh M.C., Kushwaha, R.S., 2014, Palaeoclimate Reconstruction Using Lake Loktak Sediment: A Progress Report, in National Conference on Quaternary climate change: new approaches and emerging challenges BSIP, Lucknow, India, 15-16 December, 2014. (national)
5. Das, S.K., 2014, Application of Organic Geochemistry in Archaeology, in Symposium on Science-Technology and Cultural Heritage Interface (SANDHI) at IIT Kharagpur, 14-21 October, 2014. (national) (Invited Speaker).
6. Ray, A., Paul, D.K., Sen, G., Biswas, S.K., 2014, Carbonatite-silicate immiscible melt inclusion in lamprophyre from Kutch, western India: implication for plume-lithosphere interaction and initiation of Deccan Trap magmatism- presented in EGU General Assembly 2014, Vienna, Austria, April 27 – May 2, 2014, Extended Abstract accepted. (International)

## Presidency University

7. Patel, V., Khambhla, P., Ray, A., Thakkar, M.G., 2014, Petrogenesis of Varar intrusive of central Kachchh mainland, Western India. Abstract accepted for publication in National Seminar held at the Dept. of Geology, Udaipur University 2014. (national)
8. Chakraborti, T.M., Ray, A., Deb, K.D., 2014, Petrology of mafic-utramafic suites of rocks around Bangriposi and Bisoi, Orissa, eastern India. Extended Abstract published in the Abstract Volume of the National Seminar 'Making of the Indian Continent held on 7-8 November 2014 at Presidency University, Kolkata. (national)
9. Sengupta, P., and Ray A., 2014, Petrological and Geochemical characters of Newer dolerite dykes in and around Chaibasa and Keonjhar region of Jharkhand, Orissa, eastern India. Extended Abstract published in the Abstract Volume of the National Seminar 'Making of the Indian Continent held on 7-8 November 2014 at Presidency University, Kolkata. (national).
10. Mandal, A., Ray, A., 2014, Clinopyroxenite-alkali granite-apatite magnetite chert association near Cholari, NW Puruliya, West Bengal- a case study of metasomatic transformation of dolomitic carbonatite to clinopyroxenite during shearing. Extended Abstract published in the Abstract Volume of the National Seminar 'Making of the Indian Continent held on 7-8 November 2014 at Presidency University, Kolkata. (national).
11. Patel, V., Khambhla, P., Ray, A., Thakkar, M.G., 2014, Petrogenesis of Varar intrusive of central Kachchh mainland, Western India. Abstract accepted for publication in National Seminar to be held at the Dept. of Geology, Udaipur University. (national).
12. Ray, A., Paul, D.K., Sen, G., Biswas, S.K., 2014, Carbonatite-silicate immiscible melt inclusion in lamprophyre from Kutch, western India: implication for plume-lithosphere interaction and initiation of Deccan Trap magmatism, abstract accepted for publication in European Geoscience Union (EGU) held at Vienna, Austria from 27th April to 2nd May, 2014. (International)

## 2013

1. **Bose, S.**, Dasgupta, A., Ghosh, G., 2013. Growth of one of the oldest cratonic nuclei: evidences from the southern margin of the Singhbhum craton, India. Paper presented at the International Seminar on Recent Advances in Energy, EEMR-13, at IMMT, Bhubaneswar, India, August 12-13, 2013. **(national)**
2. **Bose, S.**, Das, K., Kimura, K., Hayasaka, Y., Hidaka, H., Dasgupta, A., Ghosh, G. and Mukhopadhyay, J., 2013. Zircon and monazite geochronology of the granulites and associated gneisses from the Rengali Province, India: Growth of the southern margin of the Singhbhum Craton. Paper presented at the American Geophysical Union (AGU) Fall Meeting, San Francisco, US, 9-13 December, 2013. **(International)**
3. Mallick, S., Dasgupta, A., Ghosh, G., **Bose, S.**, Dutta Mal, S., Mukhopadhyay, J., 2013. Structural Architecture from the Rengali Province, Eastern Ghats Belt, India and growth of southern margin of the Singhbhum Craton. Paper presented at the Annual Meeting of the Geological Society of India (ESEMR), ISM, Dhanbad, 5-6 November, 2013. **(national)**
4. Das, K., **Bose, S.**, Torimoto, J., Hayasaka Y., Matsueda, H., 2013. Multiple fluid-rock interactions during the tectonothermal evolution of reworked UHT granulite: ca. 950 Ma to ca. 500 Ma history from Eastern Ghats Belt, India. Paper presented at the Annual Meeting of the Japan Association of Mineralogical Sciences, Tsukuba University, Japan, September 11-13, 2013. **(International)**
5. Das, K., Kimura, K., **Bose, S.**, Hayasaka, Y., Hidaka, H., 2013. Neoproterozoic reworking of Archean deep continental crust in the Coorg Massif, India: SHRIMP zircon and EMPA monazite geochronology and implication on Dharwar craton margin orogenesis during the assembly of Gondwana. Paper presented at the Annual Meeting of the Japan Association of Mineralogical Sciences, Tsukuba University, Japan, 11-13 September, 2013. **(International)**
6. **Das, S.K.**, Kushwaha, R.A.S., 2013, Biomarker: a novel tool in Earth Sciences, in 30th Convention of Indian Association of Sedimentologists, Imphal, India, 28-30 November, 2013. **(national)**

7. **Das, S.K.**, Ekblad, A., Stojanović, K., Mikusinska, A., Gaillard-Lemdahl, M.J., Mitrović D., Cui, Q., 2013, Holocene Stable Isotope Record From Stavsåkra Peat (Sweden), in 26th International Meeting on Organic Geochemistry (IMOG) Tenerife, Spain, 15-20 September, 2013. **(International)**
8. Mitrović, D., Đoković, N., Stojanović, K., **Das, S.K.**, 2013, Preliminary organic geochemical study of lignites from Smederevsko Pomoravlje field, Kostolac Basin, Serbia, in 65th Meeting of International Committee for Coal and Organic Petrology (ICCP), Sosnowiec, Poland, 25-31 August, 2013. **(International)**
9. Mallick, S., Dasgupta, A., **Ghosh, G.**, Bose, S., Dutta Mal, S., Mukhopadhyay, J., 2013. Structural Architecture from the Rengali Province, Eastern Ghats Belt, India and growth of southern margin of the Singhbhum Craton. Abstract presented in the Annual Meeting of the Geological Society of India (ESEMR), ISM, Dhanbad, November 5-6, 2013. **(national)**
10. Bose, S., Dasgupta, A., **Ghosh, G.**, 2013, Growth of one of the oldest cratonic nuclei: evidences from the southern margin of the Singhbhum craton, India, in abstract of the paper presented in the International Seminar on Recent Advances in Energy, EEMR-13, at IMMT, Bhubaneswar, India, August 12-13, 2013. **(national)**
11. Das, P., Ghosh, B., **Ghosh, G.**, Mukhopadhyay, J., 2013, Interpretation of AMS fabric in the Jhinkpani Limestone, Kolhan Group, Singhbhum Craton. In Abstract volume of the Golden Jubilee Year Celebration of the Indian Geophysical Union (IGU) Meeting at Jadavpur University, Kolkata, 35. **(national)**
12. Mukherjee, S., Das, P., **Ghosh, G.**, Mukhopadhyay, J., Basu, H., 2013, Role of basement fractures behind Unconformity-type uranium mineralization: a case study from the Chitrial outlier, Srisailam sub-basin, Andhra Pradesh, in abstract volume of the Golden Jubilee Year Celebration of the Indian Geophysical Union (IGU) Meeting at Jadavpur University, Kolkata, 33-34. **(national)**
13. **Mukhopadhyay J.**, Crowley, Q.C., Ghosh, G., Ghosh, S., Chakrabarti, K., Mishra, B., Bose, S., 2013, A Mesoarchean Paleosol from Eastern India—the Second Oldest Paleosol on Earth, in Goldschmidt Conference, Florence, Italy, 24-30 August, 2013. **(International)**
14. **Mukhopadhyay, J.**, Ghosh, G., 2013, REE signatures in 3.51 Ga BIF and Bedded Chert from Iron Ore Group, Singhbhum Craton, India: Implications for Paleoproterozoic Ocean Oxygenation, in American Geophysical Union (AGU) Fall Meeting, San Francisco, USA, 9-13 December, 2013. **(International)**
15. Bose, S., Das, K., Kimura, K., Hayasaka, Y., Hidaka, H., Dasgupta, A., Ghosh, G., **Mukhopadhyay, J.**, 2013, Zircon and monazite geochronology of the granulites and associated gneisses from the Rengali Province, India: Growth of the southern margin of the Singhbhum Craton, in American Geophysical Union (AGU) Fall Meeting, San Francisco, USA, 9-13 December, 2013. **(International)**
16. Das, P., Ghosh, B., Ghosh, G., **Mukhopadhyay, J.**, 2013, Interpretation of AMS fabric in the Jhinkpani Limestone, Kolhan Group, Singhbhum Craton, in Abstract volume of the Golden Jubilee Year Celebration of the Indian Geophysical Union (IGU) Meeting at Jadavpur University, Kolkata, 35. **(national)**
17. Mukherjee, S., Das, P., Ghosh, G., **Mukhopadhyay, J.**, Basu, H., 2013, Role of basement fractures behind Unconformity-type uranium mineralization: a case study from the Chitrial outlier, Srisailam sub-basin, Andhra Pradesh, in Abstract volume of the Golden Jubilee Year Celebration of the Indian Geophysical Union (IGU) Meeting at Jadavpur University, Kolkata, 33-34. **(national)**
18. Ray, A., Mukhopadhyay, J., Ghosh, G., 2013, Petrographic study of high grade ignimbrite of Dongargarh Supergroup: implication for mechanism of phenocryst breaking. Extended Abstract published in the Abstract volume of the National Seminar “Style of Magmatism----“ held in the Pune University, on February, 2013. **(national)**
19. Chakraborti, T.M., **Ray, A.**, Sengupta, P., Banerjee, S., 2013, Petrological study of mafic dykes within Singhbhum Granite of Rairangpur-Kockcho-Bahalda area, Jharkhand & Orissa, eastern India: implication for hybridization in granite in extended Abstract published and presented in IGU (Indian Geophysical Union) held at the Department of Geological Sciences, Jadavpur University on 28-29 November, 2013. **(national)**

## Presidency University

20. Mahato, A., **Ray, A.**, Mondal, A., Chatterjee, J., 2013, Petrology and geochemistry of gabbro, basalt and dolerite dykes in and around Lalpur-Maguria and Ledadih area, Puruliya, West Bengal, in extended abstract published and presented in **IGU** (Indian Geophysical Union) held at the Department of Geological Sciences, Jadavpur University on 28th & 29 th November, 2013. **(national)**.

### 2012

1. **Ray, A.**, Paul, D.K., Biswas, S.K., Damepai SM Pdah., 2012, Lamprophyre dykes of Pachcham Island, Kutch, Gujarat: implication for Plume- lithosphere interaction. Extended Abstract published in the DST Sponsored National Seminar and Fieldworkshop on Geology of Kutch Basin, 26-29 January, 2012, p. 83-85. **(national)**.
2. Paul, D.K., **Ray, Arijit.**, Biswas, S.K., Damepai, S.M. Pdah., 2012, Petrological and geochemical heterogeneity of the magmatic rocks of Kutch, Gujarat in relation to tectonic setting and source characteristics. Extended Abstract published in the DST Sponsored National Seminar and Fieldworkshop on Geology of Kutch Basin held in 26-29 January, 2012, p. 80-82. **(national)**.
3. Patil, S.K., Paul, D.K., Das, B., **Ray, A.**, Biswas, S.K., 2012, Paleomagnetic and rock magnetic studies on the magmatic rocks of Kutch Basin: implications on their ages. Extended Abstract published in the DST Sponsored National Seminar and Fieldworkshop on Geology of Kutch Basin held in 26-29 January, 2012, p.91-92. **(national)**.

## 6. Synopsis of Publications

Publications		2012	2013	2014	2015	Total
Paper (peer-reviewed)	National				1	1
	International	7	6	6	11	30
Books & Monographs	National					0
	International				2	2

## 7. Summer Projects conducted for students from other institutes and for own students and summer projects arranged for own students in other institutes (last four years)

- Own students received training at other institutes/industries

Name of the student	Industry/Institute	Name of the student	Industry/Institute
<b>2012</b>			
Arpan Banerjee	ONGC Kolkata	Arnab Mukherjee	ONGC Kolkata
Sanchari Mukherjee	ONGC Kolkata	Bithika Das	ONGC Kolkata
Pallab Roy	ONGC Kolkata	Achinta Mahato	ONGC Kolkata
Dibyendu Ghosh	ONGC Kolkata	Wriju Sarkar	ONGC Kolkata
Sumit Dey	ONGC Kolkata	Subhadeep Kumar	ONGC Kolkata
Shreya Sarkar	ONGC Kolkata	Binayak Banerjee	ONGC Kolkata
Purnamrita Maiti	ONGC Kolkata	Jayanta Chatterjee	ONGC Kolkata
Abir Banerjee	ONGC Kolkata		

Name of the student	Industry/Institute	Name of the student	Industry/Institute
<b>2013</b>			
Sounav Karmi	ONGC Kolkata	Sritama Bose	ONGC Kolkata
Rajarshi Majumder	ONGC Kolkata	Subhodip Ghosh	ONGC Kolkata
Arnob Kumar Mondal	ONGC Kolkata	Rana Banerjee	ONGC Kolkata
Amitava Chatterjee	ONGC Kolkata	Kankana Gangully	ONGC Kolkata
Riwitika Das	ONGC Kolkata	Kalyan brata Hatui	ONGC Kolkata
Shreeparna Sarkar	ONGC Kolkata	Ipshita Mitra	ONGC Kolkata
Swagata Mukherjee	ONGC Kolkata	Munmun Majhi	ONGC Kolkata
Meenakshi Banerjee	ONGC Kolkata	Dipankar Manna	ONGC Kolkata
Kuhu Chakrabarty	ONGC Kolkata	Someshwar Patra	ONGC Kolkata
Ranita Banerjee	ONGC Kolkata	Ananya Basu	ONGC Kolkata
<b>2014</b>			
Shantanu Ghosh	ONGC Kolkata	Pritha Seth	ONGC Kolkata
Pousali Pathak	ONGC Kolkata	Sayandeep Chakrabarty	ONGC Kolkata
Soumendu Sekhar Roy	ONGC Kolkata	Manab Mukherjee	ONGC Kolkata
Dipanjan Chakrabarty	ONGC Kolkata	Sujoy Dutta	ONGC Kolkata
Hindol Ghatak	ONGC Kolkata	Rimali Mitra	ONGC Kolkata
Poulami Roy	ONGC Kolkata	Utsha Dasgupta	ONGC Kolkata
Moumita Ghosh	ONGC Kolkata	Subarna Baidya	ONGC Kolkata
Aranya Sen	ONGC Kolkata	Soumyajeet Basu	ONGC Kolkata
Asish Panda	ONGC Kolkata	Avisek Saraff	ONGC Kolkata
Tathagata Roy Choudhury	ONGC Kolkata		
<b>2015</b>			
Sandip Agrahari	ONGC Kolkata	Manoshi Hazra	TATA Steel
Mohuli Das	ONGC Kolkata	Abhirup Saha	ONGC Kolkata
Aniket Mitra	ONGC Kolkata	Chandreyee de	Schlumberger Ltd.
Ayan Chakraborty	ONGC Kolkata	Abhishek Kundu	AMD
Mahasweta Mukherjee	PRL Ahmedabad	Dyuti Prakash Sarkar	IIGM, Allahabad
Swagata Chaudhuri	WIHG, Dehradun	Subham Sarkar	WIHG, Dehradun
Bidisha Dey	WB-DST	Arnab Sengupta	AMD
Budhaditya Biswas	Schlumberger Ltd.	Sayal Pal	AMD
Suranjan Ghosh	IIGM, Allahabad	Madhurima Ghosh	TATA Steel
Amitava Saha	ONGC Kolkata	Arunima Hazra	ONGC Kolkata
Arijit Mukherjee	AMD		

## Presidency University

### ► External students trained in the Department

Name of the student	Institute	Supervisor
Arindam Chakrabarti	IIT Bombay	Dr. Sankar Bose
Narayan Bose	IIT Bombay	Prof. Joydip Mukhopadhyay
Suman Naskar		
Gourav Basu	IIT Bombay	Dr. Arijit Ray
Ayush Srivastava	Delhi University	Dr. Nilanjan Dasgupta
Nibedita Rakshit	IIT Roorkee	Dr. Nilanjan Dasgupta
Kuntal Chaudhuri	IISER Kolkata	Dr. Sankar Bose
Prabhati Sen	Jadavpur University	Dr. Sankar Bose
Somdipto Chatterjee	Jadavpur University	Dr. Sankar Bose
Srijita Chatterjee	Jadavpur University	Dr. Sankar Bose
Sayandeep Roy	Jadavpur University	Dr. Sankar Bose
Vaneet Patel		
Pravin Khambatta	Kutch University	Dr Arijit Ray
Ritabrata Dasgupta	Jadavpur University	Dr. Nilanjan Dasgupta
Swagatam Khan	IIT Roorkee	
Ishita Samajpati	IIT Roorkee	
Triparna Ghosh	BHU, Varanasi	Dr Arijit Ray
Abaan Ahmed Momin	IIT Bombay	Dr. Sankar Bose

### 8. A brief history of the Department

The Hindoo College was founded in 1817 with the express intention of providing modern education to the Indian students. The teaching of science was, however, ignored at the initial phase. In 1823, Raja Rammohan Roy addressed a letter to Lord Amherst for imparting instruction in “mathematics, natural philosophy, chemistry, anatomy and other useful sciences”. In response to that request, Mr. H.F. Blanford informally began teaching the basic elements of Physics, Chemistry, Geology, Meteorology and Physical geography in Presidency College as ‘Professor of Natural Science’. In 1851, the establishment of Geological Survey of India in Calcutta signalled the dawn of geological exploration in the subcontinent. The need for trained Indians was then strongly felt by the colonial rulers. On 23rd September 1891, the Government of Bengal published a notification regarding opening of graduate classes in Geology and Mineralogy in Presidency College. On 17th July 1892, the Department of Geology, the first of its kind in India, was formally inaugurated with Sir Thomas Holland of the Geological Survey of India as the first Professor of Geology. The teaching covered both BSc and MSc levels. The department remained a small one with only four full-time teachers until the middle of the twentieth century when its expansion began. Even in those early days, the department established its tradition of dedicated teaching and a reputation as a pioneering research centre under the stewardship of Late Professor Hem Chandra Dasgupta, the first Indian Professor of Geology. The geological museum set up by Professor Dasgupta has been renovated and named Hem Chandra Museum of Geology in his honour. Standing on that strong foundation, the department has been moving forward along the path of excellence. The alumni of this department not only established their superiority in



the academic field of earth sciences but they are also playing a leading role in the development of the natural resource industry of the country. Many of our alumni adorn the chairs of leading institutions in India and abroad. As recognition of its academic excellence, the department came under the **UGC-COSIST** Programme in 1985, followed by the **UGC** Special Assistance Programme in 1986. In the year 2004, the department came under the purview of the **FIST** Programme of the Department of Science and Technology, Government of India. With successful completion of the **FIST** Programme, the department applied and obtained the next level of the **FIST** Programme which was completed in 2014. The department was declared a Centre for Advanced Study (**CAS**) in Precambrian Geology and Metallogeny by the University Grants Commission in 2006 which subsequently reached its next level (**CAS II**) in 2012 with support for another five years.

## Evaluative Report of the Department : Mathematics

1. **Name of the Department** : Mathematics
2. **Year of establishment** : 1817 (Founded under the Hindoo College) 1855 (as part of the Presidency College), 2010 (as part of the Presidency University)
3. **Is the Department part of a School/Faculty of the university?** :
  - Under the Faculty of Natural and Mathematical Sciences.
4. **Names of programmes offered (UG, PG, MPhil, PhD, Integrated Masters; Integrated PhD, DSc, DLitt, etc.)** : UG and PG.
5. **Interdisciplinary programmes and departments involved** :
  - The Mathematics department is taking part in the interdisciplinary programme at the UG level, namely the GenEd programme. Under this programme, the faculty members of this department teach courses in Differential and Integral Calculus, Algebra, Analysis, Linear Algebra to the students of other science departments and also Logic and Basic Number Theory {Puzzles and Paradoxes in Mathematics} to both science and humanities departments. All these courses offered by the Department of Mathematics are highly sought after. The Departments of Physics, Chemistry, Bio science, Statistics, Economics, Geology, Geography amongst the science faculties and the Departments of English and Philosophy amongst the arts faculties are involved in this programme.
  - The Department of Mathematics has started organizing regular Student Seminar on every alternate Thursdays from February 2016, which is an event open to all the students of the university. Students of the Departments of Statistics and Physics have taken part in the Student Seminar so far. We also hope that students from the other Departments like Economics will take part in this activity in future. Moreover we have planned to invite potentially strong students from Statistics, Economics or Physics to deliver lectures in this event.
  - The Department of Mathematics, in collaboration with the Departments of Economics and Statistics has submitted a proposal to set up a Centre for Big Data Analytics and Innovation. This centre will help to enhance interdisciplinary research activities on one platform.
  - The Department of Mathematics has initiated discussions with the Department of Statistics to explore the possibility of starting interdisciplinary courses at the PG level on a regular basis. We are also trying to increase our interdisciplinary activities by allowing our PG students to do their Masters Dissertations through inter-departmental collaborations.
6. **Courses in collaboration with other universities, industries, foreign institutions, etc.** :
  - The Department has received a formal proposal from a leading software company to start a special programme in Big Data Analytics in 2014 jointly with the help and support of industry. Considering this and similar suggestions, the Department has submitted a proposal jointly with the Departments of Economics and Statistics for creating of a new Centre for Big Data Analytics and Innovation.
  - The Department of Mathematics is exploring possibilities of starting collaborative student programme, e.g. student exchanges between Presidency University and other institutions in India and abroad, especially considering the national and international collaborations of Presidency University and its MoU with some institutions in India and abroad.

7. **Details of programmes discontinued, if any, with reasons** : Not applicable.
8. **Examination System: Annual/Semester/Trimester/Choice Based Credit System** : Semester system.
9. **Participation of the department in the courses offered by other departments** :
- The UG students of the department take part in Gen-Ed programmes offered by other Science and Humanities departments. Also this department offers GenEd courses for other departments.

10. **Number of teaching posts sanctioned, filled and actual (Professors/Associate Professors/Asst. Professors/others)**

	Sanctioned	Filled	Actual (including CAS & MPS)
Professor	2	0	
Associate Professors			
Asst. Professors	13	4	
Others			1 UGC-FRP

11. **Faculty profile with name, qualification, designation, area of specialization, experience and research under guidance**

Name	Qualification	Designation	Specialization	No. of Years of Experience	No. of PhD/MPhil students guided for the last 4 years
Tapan Saha	Ph.D	Assistant Professor	Qualitative Theory of Ordinary Differential Equations.	7.5 years	
Subhra Bhattacharya (UGC-FRP)	Ph.D	Assistant Professor	Mathematical Biology, Cosmology	4 years	
Shubhabrata Das	MSc	Assistant Professor	Geometric Group Theory	1.5 years	
Kuntal Banerjee	Ph.D	Assistant Professor	Complex Dynamics	3.5 years	
Pampa Paul	Ph.D	Assistant Professor	Representation Theory	1.5 years	

The Department also receives the service of 7 guest teachers.

12. **List of senior Visiting Fellows, adjunct faculty, emeritus professors** :

- **Professor Arnaud Chéritat** from University of Toulouse, France will visit the Department in March 2016.
- **Professor Kingshook Biswas** from Ramakrishna Mission Vivekananda University, India will visit the Department in the even semester 2016.

13. **Percentage of classes taken by temporary faculty / Guest Faculty– programme-wise information**

UG	PG
40%	60%

14. **Programme-wise Student Teacher Ratio**

UG	PG
12 : 1 (including guest teachers)	4 : 1 (including guest teachers)

## Presidency University

### 15. Number of academic support staff (technical) and administrative staff: sanctioned, filled and actual

	Sanctioned	Filled	Actual
Academic support staff (technical)			
Administrative staff		West Bengal Govt. Staff-01, Contractual-01	

### 16. Research thrust areas as recognized by major funding agencies

i) Complex Dynamics    iii) Geometric Group Theory    v) Nonlinear Dynamics in Population Biology

ii) Cosmology    iv) Representation Theory    vi) Qualitative Theory of Ordinary Differential Equations

### 17. Number of faculty with ongoing projects from a) national b) international funding agencies and c) Total grants received. Give the names of the funding agencies, project title and grants received project-wise.

#### a) National

Name of the Teacher	Title	Duration	Funding Agency	Amount (in Lakhs)
Subhra Bhattacharya	Start up grant	2013-15	UGC	6.00

### 18. Inter-institutional collaborative projects and associated grants received :

a) National collaboration    b) International collaboration

- Kuntal Banerjee has received local support of Euro 400/- from ANR-DFG-NSF and Rs. 70,000/- for travel from NBHM to attend the conference “Dynamical Developments: A Conference in Complex Dynamics & Teichmuller Theory” at Jacobs University, Bremen, Germany during 17th-21st August, 2015.
- Shubhabrata Das has received local support from ENS de Lyon to attend a conference titled “Groups in Action: A Conference in Honor of Etienne Ghys” at ENS de Lyon during 29th June - 3rd July, 2015, and for research collaboration with Dr. Sebastien Martineau at ENS Lyon.

### 19. Departmental projects funded by DST-FIST; UGC-SAP/CAS, DPE; DBT, ICSSR, AICTE, etc.; total grants received. None

### 20. Research facility / centre with

- state recognition
- national recognition
- international

None

### 21. Special research laboratories sponsored by / created by industry or corporate bodies: Nil

### 22. Publications : (during last four years) (List in annexure)

- Number of papers published in peer reviewed journals (national / international) : 11
- Monographs
- Chapters in Books
- Edited Books : 01

- Books with ISBN with details of publishers
- Number listed in International Database (For e.g. Web of Science, Scopus, Humanities International Complete, Dare Database - International Social Sciences Directory, EBSCO host, etc.)
- Citation Index – range / average
- SNIP
- SJR
- Impact Factor – range / average
- h-index

**23. Details of patents and income generated :** Nil

**24. Areas of consultancy and income generated :** Nil

**25. Faculty selected nationally / internationally to visit other laboratories / institutions / industries in India and abroad**

- Shubhabrata Das was invited to Delhi University for delivering a lecture in the International Conference on Geometry, Arithmetic and Analysis on Hyperbolic spaces, during December 10-15, 2014.
- Shubhabrata Das visited UMPA, ENS de Lyon, France during 21st June-14th July, 2015 for research collaboration.
- Kuntal Banerjee was invited to Chennai Mathematical Institute for delivering a lecture in the CMI Alumni Conference during January 7-8, 2015.

**26. Faculty serving in : a) National committees b) International committees c) Editorial Boards d) any other (please specify)**

- All the faculty members are part of the Board of Studies of the Department.
- Kuntal Banerjee served as a referee for Contemporary Mathematics of AMS in 2013-2014.
- Tapan Saha has been serving as a reviewer for Nonlinear Dynamics, Nonlinear Analysis, Applied Mathematics & Computations from 2012.

**27. Faculty recharging strategies (UGC, ASC, Refresher / orientation programmes, workshops, training programmes and similar programmes).**

- Faculty members from this Department take part in various workshops, conferences and seminars at national and international level, as well attend UGC Refresher/orientation programmes on a regular basis.
- The Department organizes workshops and other events from time to time for as part of extra curricular activities.
  - The Department organized a “Teachers’ Enrichment Workshop” funded by National Centre for Mathematics during 4th – 9th January, 2016.
  - The Department is organizing the Mathematics sessions of “23rd West Bengal State Science & Technology Congress” during 28 - 29 February, 2016.
  - The Department will organize a weekly seminar series by Prof. Arnaud Chéritat during 21 - 25 March, 2016 at the time of his week long visit at Presidency University.

## Presidency University

### 28. Student projects

- percentage of students who have done in-house project including inter-departmental projects

100% of PG second year students are doing in-house projects which are parts of the PG curriculum for final year masters students. 100% of second year UG students took part in class projects in small groups mentored by Kuntal Banerjee in the even semester 2015. One UG second year student and another PG first year student are doing reading projects under Kuntal Banerjee outside usual curriculum from odd semester 2015.

- percentage of students doing projects in collaboration with other universities / industry / institute

One UG student is doing a project under DST INSPIRE fellowship in collaboration with J.C. Bose Institute. Another UG student did a project under DST INSPIRE fellowship in Presidency University.

### 29. Awards / recognitions received at the national and international level by

- Faculty
- Doctoral / post doctoral fellows
- Students :
  - Fifteen students (among UG and PG) are receiving DST Inspire fellowship.
  - Arijit Ganguly (Passed BSc in 2012) and Soumya Chattopadhyay (Passed BSc in 2013) have won Madhava Mathematics Prize in 2012
  - Three other students (passed MSc in 2014) have qualified CSIR UGC NET under JRF category and are in the process of getting CSIR UGC fellowship.
  - Neethi Konar (Passed MSc In 2014) has presented a paper titled “A Study on Three-Valued Paraconsistent Logics” in the international research school EASLLC 2014 held at Tsinghua University, China during July 2-8, 2014.
  - Aayushmaan Chkrabarti (Second year UG student) will present a poster titled “A different proof of Cantor-Bernstein-Schroeder Theorem” in 23rd West Bengal State Science & Technology Congress to be held at Presidency University during February 28-29, 2016.

### 30. Seminars/ Conferences/Workshops organized and the source of funding (national /international) with details of outstanding participants, if any.

Title of the Seminars/ Conferences/Workshops	National/ International	Year	Funding Agency
Teacher’s Enrichment Workshop	National	4th January-9th January, 2016	National Centre for Mathematics
West Bengal State Science & Technology Congress	National	28 February- 29 February, 2016	DST, Govt. of West Bengal
Week long seminars on Complex Dynamics	International	21 March-25 March, 2016	Presidency University

### 31. Code of ethics for research followed by the departments

In addition to the general principles of anti-plagiarism this department believes that research for the sake of research is not just useless, it is detrimental to the general cause of learning.

**32. Student profile programme-wise:**

Name of the Programme	Applications received	Selected		Pass percentage	
		Male	Female	Male	Female
UG	1951	26	5	100%	100%
PG	534	13	4	100%	100%

**33. Diversity of students**

Name of the Programme (refer to question no. 4)	% of students from the same university	% of students from other universities within the State	% of students from universities outside the State	% of students from other countries
UG			5%	
PG	16%	84%		

**34. How many students have cleared Civil Services and Defense Services examinations, NET, SET, GATE and other competitive examinations? Give details category-wise.**

- 4 students have qualified CSIR-UGC NET in 2014.

**35. Student progression**

Student progression	Percentage against enrolled
UG to PG	16% students are enrolled in this University & majority of the others are pursuing postgraduate studies in other state/central Universities or the IIT's.
PG to MPhil	NA
PG to PhD	Two (CSIR-UGC NET qualified) of our students have joined for PhD in IIT Kanpur & IIT Kharagpur and one other is in the process of joining for PhD
PhD to Post-Doctoral	
Employed • Campus selection • Other than campus recruitment	Students are employed in Schools, Colleges, Research Institutes, Universities, Industries and some of them are also pursuing research in PhD programmes.
Entrepreneurs	

**36. Diversity of staff**

Percentage of faculty who are graduates of the same University	0
From other universities within the State	80
From Universities from other states	20
From Universities outside the country	

**37. Number of faculty who were awarded MPhil, PhD, DSc and DLitt during the assessment period:** None

**38. Present details of departmental infrastructural facilities with regard to**

1. Library : More than 600 books
2. Internet facilities for staff and students : Internet facilities are provided to all the academic staffs. Students can access Internet throughout the campus via WiFi.
3. Total number of class rooms : 06

## Presidency University

4. Class rooms with ICT facility : One classroom has a projector and another classroom is presently being renovated and will have a projector in near future. Currently, all the classrooms are WiFi enabled.
5. Students' laboratories : There is no dedicated computer laboratory for students in the department. However, the students can access a general computer laboratory in the university campus.
6. Research laboratories: Nil

### 39. List of doctoral, post-doctoral students and Research Associates

1. from the host institution/university :
2. from other institutions/universities: Dr. Sauvik Mukherjee joined the department as a post-doctoral fellow in September, 2015. The post-doctoral fellowship is funded by NBHM, India.

### 40. Number of post graduate students getting financial assistance from the university. 01

### 41. Was any need assessment exercise undertaken before the development of new programme(s)? If so, highlight the methodology.

- Interdisciplinary initiative conjointly with Statistics Department has been a long felt need. There have been meetings to start such a programme.

### 42. Does the department obtain feedback from

1. faculty on curriculum as well as teaching-learning-evaluation? If yes, how does the department utilize the feedback?
  - The department takes the feedback from faculty on curriculum and teaching learning process on a regular basis and holds periodic discussions with the BoS members, after which the department incorporates their suggestions in the existing curriculum.
2. students on staff, curriculum and teaching-learning-evaluation and how does the department utilize the feedback?
  - The department has been obtaining feedback from the students on curriculum and the learning experience. But the analysis of the same is left to the individual faculty member.
3. alumni and employers on the programmes offered and how does the department utilize the feedback?
  - Not formally.

### 43. List the distinguished alumni of the department (maximum 10)

- i) Radhanath Sikdar, famous mathematician known for measuring the height of Mt. Everest.
- ii) Sir Anandamohan Basu, the first Indian Wrangler.
- iii) Sir Asutosh Mukherjee, the second Vice-Chancellor of the Calcutta University.
- iv) Syamadas Mukhopadhyaya, Indian mathematician famous for proving the four vertex theorem for convex curves
- v) Satyendra Nath Bose, famous physicist known for Bose-Einstein Statistics.
- vi) Meghnad Saha, famous physicist known for Saha Ionization Equation.
- vii) Nikhil Ranjan Sen, famous mathematician known for his contributions in General Theory of Relativity and Fluid Dynamics.
- viii) Manik Bandyopadhyay, famous Bengali litterateur.



**44. Give details of student enrichment programmes (special lectures / workshops / seminar) involving external experts.**

The Department has organized many seminar lectures as part of the student enrichment programme. Chronologically the followings have been organized:

- i) Seminar lecture on “ Transcendental Numbers: Existence by Exhibiting One” delivered by Prof. K.C. Chattopadhyay, Burdwan University on 27/09/2013.
- ii) Seminar lecture on “ What is Algebraic Geometry?” delivered by Omprakash Das, University of Utah, USA on 01/08/2014.
- iii) Seminar lecture on “Non-periodic Tiling” delivered by Mathias Moreno, ENS de Lyon, France on 27/10/2014.
- iv) Seminar lecture on “Stochastic Models and Time Series Analysis applies to Geophysics” by Kanadpriya Basu, University of Texas at El Paso, USA on 09/01/15.
- v) Seminar lecture “On Continued Fraction” delivered by Arijit Ganguly, TIFR, Mumbai on 16/02/15.
- vi) Seminar lecture on “Graphs and Rings” delivered by Arindam Banerjee, ISI, Kolkata on 27/07/2015.
- vii) Seminar lecture on “Classification of Surfaces” delivered by Sourav Ghosh, Universite Paris-Sud on 22/09/2015.

The Department of Mathematics has initiated regular Student Seminar from February 2016. The speakers and the details of the talk are as follows:

- 1) Aayushman Chakrabarti (UG second year, Mathematics Major) delivered a lecture on “Schroeder-Bernstein Theorem” on 04/02/2016.
- 2) Anubrato Bhattacharyya (UG second year, Mathematics Major) has delivered a lecture on “Some classical inequalities” on 18/02/2016.

**45. List the teaching methods adopted by the faculty for different programmes:**

- i) Traditional classroom teaching along with regular tutorials.
- ii) Computer lab teaching for MATLAB & C programming languages.
- iii) Showing video lectures delivered by eminent mathematicians and other relevant mathematical videos.
- iv) Regular student seminars followed by discussions.

**46. How does the department ensure that programme objectives are constantly met and learning outcomes are monitored?**

Through teacher-student interaction, feedback from seminars and alumni interaction.

**47. Highlight the participation of students and faculty in extension activities.**

- “Teachers’ Enrichment Workshop” conducted for the benefit of local college teachers. The department plans to put up a stand for exhibiting mathematical models and phenomena to attract school students and participants of the 23rd WB State Science Congress 2016.
- The department has planned to conduct an outreach programme for the interested school students from the local schools in summer 2016.

## Presidency University

- The Department is putting up a stand for exhibiting mathematical models and phenomena to interested school students and participants in the 23rd West Bengal State Science & Technology Congress during 28-29 February 2016.

### 48. Give details of “beyond syllabus scholarly activities” of the department.

- Academic and administrative responsibilities of the university such as admission, examinations and major event organization.
- Regular seminar activity.
- Teachers of the department take special care in mentoring students to learn the subject and new materials outside classroom throughout the year beyond official teaching hours. Some UG and PG students have been engaged in reading projects and small research projects outside usual curriculum.

### 49. State whether the programme/ department is accredited/ graded by other agencies? If yes, give details. - No.

### 50. Briefly highlight the contributions of the department in generating new knowledge, basic or applied.

Through research works in the areas of Complex Dynamics, Cosmology, Geometric Group Theory, Nonlinear Dynamics in Population Biology, Representation Theory by the faculty members of the department.

### 51. Strength, Weakness, opportunities and Challenges

#### • Strengths of the Department:

- ◆ **Heritage, University structure and FRPDF scheme** : Presidency University has a special position in Indian academia considering its rich academic heritage which is 200 years old. Presently the university functions under recommendations from a Mentor Group, which has added value to the structure of the university. A special fund called FRPDF is given to every faculty member of this university every year, which can be used as a research grant for travel and other purposes.
- ◆ **Teaching and Nurturing students** : The primary goals of this Department are teaching and nurturing students through regular classes, tutorials and discussions outside the classrooms. Students are encouraged to take part in one-to-one discussions with the teachers outside the class. They are also encouraged to participate in various workshops for university students. We take special care, so that our students appear for the national level examinations for further studies in reputed institutes like TIFR, ISI, IITs, IISc, IMSc, CMI, HRI etc. All the faculty members try to motivate the students to do well and always extend their support to those who are lagging behind. We have a healthy atmosphere in the Department and students can approach the teachers easily.
- ◆ **Strong undergraduate admission test** : We have a strong admission test for the admission into undergraduate programme. This has helped us to choose quality students. Every undergraduate batch has some bright students who, we hope, will be among the top 1% of our country in every category at the national level.
- ◆ **Internationally acclaimed researchers in Board of Studies** : Department of Mathematics formed its Board of Studies in 2015 and all the external members of the Board of Studies are internationally acclaimed researchers. Coincidentally, the external members of this board are all recipients of the Bhatnagar award, the highest prize for researchers in Mathematical Science in India. All the major academic decisions of the Department are taken in consultation with the members of this board and the Department is fortunate to have the service of these researchers for its regular academic activities.
- ◆ **A unique undergraduate syllabus** : Our undergraduate programme has been thoroughly revised and the present undergraduate syllabus is unique in the country at the university level. This syllabus was

finalized with the help of our Board of Studies members, which has ensured a good standard of the current curriculum. In fact, some of the courses, in the current undergraduate programme are not even taught at the premiere institutions of Mathematics in India at the Bachelors level.

- ◆ **Research group in Geometry-Dynamics-Differential equations** : The areas of research of the present faculty members of this Department include Representation theory, Geometry, Dynamical systems, Differential equations, Cosmology and Population Biology. Among these topics, Geometry, Dynamical systems and Differential equations are close enough, and our Department is unique to have this as a research group in eastern India.
- ◆ **National and international collaborations in Mathematical events** : The Department has started holding regular workshops and seminars. We are going to organize thematic lecture series, workshops and conferences in the near future. Two eminent scholars (one from France and another from India) have confirmed their participation for a series of invited lectures at Presidency University in the next few months. This is not usually practiced at the university level in the country and Presidency University can achieve a special place in Indian academia if we can continue these programmes successfully.

- **Weaknesses of the Department:**

- 1) **Shortage of faculty members:** The Department is immensely suffering from the shortage of faculty members. Presently we only have five faculty members (four regular and one UGC-FRP) as of January 2016, whereas the number of sanctioned posts is fifteen.
- 2) **Shortage of administrative/clerical staff:** Due to shortage of administrative and clerical staffs in the Department the faculty members need to take care of all these responsibilities, which is hampering the academic life of the teachers.
- 3) **Postgraduate syllabus needs up-gradation:** Our postgraduate curriculum needs thorough revision and up-gradation. If we can do this, then our masters students will benefit most in all manner. This problem has been raised in the Departmental meetings and discussions with our external BoS members. Some initiations have been started by the present faculty members and they are willing to revise this curriculum within next academic year.

- **Opportunities and Challenges of the Department:**

1. **Infrastructural Development:** Being promoted to a university from a college, one of the major challenges of this Department as well as of the whole university is infrastructural development. The Department and the university both are making slow but steady progress in this direction. All the developments in this regard will enrich our facilities and infrastructure, as well enhance the opportunities of the Department.
  - a. Improvement of the seating arrangement for the faculty members of the Department and creation for sufficient space for running a full-fledged Department are presently under process.
  - b. Some of our classrooms are being renovated at present, and other classrooms will definitely be upgraded in future in terms of state of the art facilities. We wish to install projectors in all the classrooms. Currently all the classrooms are WiFi enabled.
  - c. Internet connectivity at the Department received a huge boost toward the end of 2015 when the LAN of the Department was upgraded and a new WiFi access point was installed. The Department wishes to have a dedicated computer laboratory for its faculties and students in future.
  - d. The library of the university has subscribed MathScinet on January 2016 for the Department of Mathematics. A huge class of online journals have been made available through Springer Link and JSTOR. However the department and the university have still some rooms for improvement in this regard.

## Presidency University

2. **Initiation of PhD programme:** The department is yet to start its PhD programme which is a challenge to overcome and an opportunity for its future development.
3. **Collaboration with industry and other institutes:** The department wishes to establish a healthy relationship with the industry and this is one of the opportunities that the department can create, also it is a challenge to start the process and nurture this relation. A possible solution of this can be found if the centre for Big Data Analytics becomes a reality in future. Also there are possibilities for improvements when collaborations with other academic institutions are considered.

### 52. Future plans of the department

- **Full revision of PG Syllabus:** Initiations have been taken to revise the PG curriculum in the Department completely. Hopefully this will be completed by the next academic year.
- **Future Research:** The followings are planned for future research in the Department.
  - ◆ **Qualitative Theory of Ordinary Differential Equations:** Stability analysis, bifurcation analysis of vector fields.
  - ◆ **Complex Dynamics:** The nature and properties of rotation domains and Herman rings will be studied.
  - ◆ **Geo metric Group Theory:** Different notions of boundaries at infinity for finitely generated groups, such as Floyd boundary and Poisson boundary are planned to be studied. This also includes the following topics: acylindrically hyperbolic groups, small cancellation and graded small cancellation groups and their generalisations, property rapid decay of groups.
  - ◆ **Representation Theory:** Representation theory of Lie algebras; representation theory of real reductive Lie groups : admissible representations, discrete series representations, Harish-Chandra modules, branching rule, Littelmann's path model.
  - ◆ **Cosmology:** Problems related to cosmology, interacting dark matter-dark energy, wormholes, emergent universe etc.
  - ◆ **Population Biology:** Problems in the area of interacting species, epidemiology and brain disorders.
- **Regular Seminars/Workshops/Conferences:** We would like to continue the seminars and workshops on a regular basis, which have already started in the Department. After that we would like to organize thematic conferences.
- **National and International collaborations:** The Department wishes to host senior mathematicians as visiting professors from India and abroad. This initiation has already been started and we wish to continue this further.
- **Commencing PhD programme:** A primary aim of this Department is to start its PhD programme. Hopefully this can be realized once we have more faculty members.
- **Centre for Big Data Analytics and Innovation:** To initiate ties with the industry, and to collaborate with other institutions, the Department has submitted a proposal for creation of a Big Data Analytics centre in future.
- **Dedicated Computer Lab:** The Department wishes to establish a dedicated computer lab for its students and faculty members, where special mathematical software will be available.
- **Promotion of mathematical research in interdisciplinary areas:** The Department is considering the possibilities of interdisciplinary research, including the existing initiatives.

## Annexures

### 1. List of Research Projects in Last four Years

Year of Initiation	Year of Completion	Funding agency	PI	Title	Fund Sanctioned	Fund Received	Completed/ongoing
2013	2015	UGC	Subhra Bhattacharya	UGC Start up grant	Rs. 6 Lacs	Rs. 6 lacs	Ongoing

### 2. List of Seminars and Conferences Organized in last three years

Sl No.	date/Month	Topic	Source of Funding
1.	21/03/16-25/03/16	Week long seminars on Complex Dynamics	Presidency University
2.	28/02/16-29/02/16	West Bengal State Science & Technology Congress	DST, Govt. of West Bengal
3.	04/01/16 - 09/01/16	Teacher's Enrichment Workshop	National Centre for Mathematics
4.	22/09/2015	Classification of Surfaces	Presidency University
5.	27/07/2015	Graphs and Rings	Presidency University
6.	16/02/2015	On Continued Fractions	Presidency University
7.	09/01/2015	Stochastic Models and Time Series Analysis applies to Geophysics	Presidency University
8.	27/10/2014	Non-Periodic Tilings	Presidency University
9.	01/08/2014	What is Algebraic Geometry?	Presidency University
10.	27/09/2013	Transcendental Numbers: Existence by Exhibiting One	Presidency University

### 3. Seminar workshops attended by teachers of the Department in last three years (chronologically)

Sl. No	Name of the Teacher	Title of Seminar	Organized by	Status (National/International)	Role as Resource person /Invited Speaker/ Participation
1.	Tapan Saha	International Conference on Emerging Trends in Applied Mathematics 12-14th February, 2014	University of Calcutta in Collaboration with SINP & IACS, Kolkata	International	Presented a Paper
2.	Tapan Saha	Workshop on Applied Nonlinear Dynamics & Chaos 26th May-31st May, 2014	GCETT & DIET, West Bengal, India	National	Invited Speaker

Sl. No	Name of the Teacher	Title of Seminar	Organized by	Status (National/ International)	Role as Resource person /Invited Speaker/ Participation
	Tapan Saha	Enrichment Programme on “Algebra, Analysis & Differential Equations” February 22, 2016	K N College Berhampore, West Bengal	National	Invited Speaker
3	Jayanta Sen	Logic and its Applications celebrating the Alan Turing Year 29th September-1st October, 2012	Calcutta Logic Circle in collaboration with School of Cognitive Science, Jadavpur University and Indian Institute of Bio-Social Research and Development	National	Presented a Paper
4	Jayanta Sen	Recent Developments in Mathematics and its Applications 12th March, 2013	Department of Pure Mathematics, University of Calcutta	National	Presented a Paper
5	Jayanta Sen	Seminar on Logic and Cognition celebrating 25 years of Calcutta Logic Circle 30th October-1st November, 2013	Calcutta Logic Circle & School of Cognitive Science, Jadavpur University	International	Invited Speaker
6	Shubhabrata Das	Geometry and Analysis on Hyperbolic Spaces 10th December-15th December, 2014	NBHM, India NSF, USA	International	Invited Speaker
	Shubhabrata Das	Madhava Mathematics Camp October 29 to November 6, 2015	St. Xavier’s College, Kolkata, West Bengal	National	Resource Person
7	Kuntal Banerjee	CMI Alumni Conference 5th -9th January, 2015	CMI	International	Invited Speaker
8	Kuntal Banerjee	Dynamical Developments: A Conference in Complex Dynamics & Teichmuller Theory. 17th -21st August, 2015	Jacobs University, Bremen, Germany, DFG, NSF, ANR	International	Participation
9	Kuntal Banerjee	TEW on Complex Analysis & Topology 22nd-27th December, 2014	NCM, INDIA	National	Invited Speaker
10	Kuntal Banerjee	Aspects of Dynamical Systems 3rd -16th November, 2014	CIMPA, Tribhuvan University, DST INDIA	International	Participation

Sl. No	Name of the Teacher	Title of Seminar	Organized by	Status (National/ International)	Role as Resource person /Invited Speaker/ Participation
11	Kuntal Banerjee	VSSP, HRI June-July, 2014	HRI	National	Invited Speaker
12	Kuntal Banerjee	Maths Seminar April 2014	NISER	National	Invited Speaker
13	Kuntal Banerjee	Maths Seminar January 2014	CMI	National	Invited Speaker
14	Kuntal Banerjee	ISL on Topology & Geometry December-2013	NCM	National	Invited Speaker
15	Kuntal Banerjee	Maths Seminar November-2013	IISER, Mohali	National	Invited Speaker
16	Kuntal Banerjee	COOL Seminar, IHP Paris June-2013	University of Paris -Est Creteil, France	International	Invited Speaker
17	Kuntal Banerjee	Topics in Complex Dynamics 10th-14th June, 2013	University of Bercelona, Spain	International	Participation
18	Kuntal Banerjee	Advanced School and Workshop in Real and Complex Dynamics 20th-31st May, 2013	ICTP, Italy	International	Participation
19	Kuntal Banerjee	Maths Seminar September 2012	RKMVU, India	National	Invited Speaker

#### 4. List of Publications in papers ( peer-reviewed only), Books, Monographs, Last Four Years

##### 2012

- i) Pal, P., Saha, T. and Banerjee, M., 2012, A delayed predator prey model with strong Allee effect in prey population growth. *Nonlinear Dynamics*, v. 68(1) p. 23-42.
- ii) Bhattacharya, S., and Adler, F., 2012, A time since recovery model with varying rates of loss of immunity, *Bull. Math. Biol.*, v. 74, p. 2810-2819.
- iii) Paul, Pampa., Raghavan, K.N., Sankaran, Parameswaran., 2012, L<sub>0</sub>-types common to a Borel-de Siebenthal discrete series and its associated holomorphic discrete series , *C. R. Acad. Sci. Paris* 350 (23- 24), 1007-1009.

##### 2013

- i) Pal, P., Haque, M., Saha, T. and Ryu, K., 2013, A predatory commensalism model in a deterministic and stochastic environment. *Dynamics of Continuous, Discrete & Impulsive Dynamical Systems*, v.20(1), p. 1-32.

##### 2014

- i) Banerjee, K. 2014: On the widths of the Arnol'd Tongues. *Ergodic Theory & Dynamical Systems*. v.34 (5), p. 1451-1463.
- ii) Das, S. and Mj, M., 2014: Appendix to Ending Laminations and Cannon-Thurston Maps. *Geometric And Functional Analysis*, v. 24, p. 297-321.

## Presidency University

- iii) Paul, Pampa., Raghavan, K.N., Sankaran, Parameswaran., 2014, Borel-de Siebenthal Discrete Series and Associated Holomorphic Discrete Series. Journal of Lie Theory v. 24 (2), 475-501, Heldermann Verlag.

### 2015

- i) Das, S. And Mj, M., 2015: Controlled Floyd Separation and Non-Relatively Hypebolic Groups. Journal of the Ramanujan Mathematical Society, v. 30 (3) p. 267-294.
- ii) Pal, P. and Saha, T., 2015 : Qualitative analysis of a predator prey model with double Allee effect in prey. Chaos, Soliton & Fractals, v. 73, p. 36-63.
- iii) Pal, P. and Saha, T. 2015, Dynamical complexities of a ratio dependent predator prey model with strong additive Allee effect. Springer Proceedings in Mathematics and Statistics, v. 146, p. 287-298.
- iv) Pan, S., Bhattacharya, S. and Chakrabarty, S. 2015, An analytic model for interacting dark energy and its observational constraints. MNRAS v. 452, p. 3038–3046.

### Accepted:

- i) Bhattacharya, S. and Chakrabarty, S. :A Model of Emergent Universe in Inhomogeneous Space-Time. Accepted, Classical Quant. Gravit.
- ii) Das, S. and Mj., M. : Semiconjugacies Between Relatively Hyperbolic Boundaries.

## 5. Names of Students with outstanding achievements and placements for higher studies (last four years)

- i) Arijit Ganguly (2012): Enrolled for Integrated Ph.D programme in TIFR, Mumbai.
- ii) Pratyush Nath (2013): Enrolled for Integrated Ph.D programme in TIFR, Mumbai.
- iii) Mahboob Alam (2014): Enrolled for M Math at ISI, Kolkata.
- iv) Namrata Biswas (2015) : Enrolled for MSc at IIT, Mumbai.
- v) Ayan Halder (2015): Enrolled for MSc at IIT, Kanpur



## Evaluative Report of the Department : Physics

1. **Name of the Department** : PHYSICS
2. **Year of establishment** : 1865
3. **Is the Department part of a School/Faculty of the university?** :
  - Under the Faculty of Natural and Mathematical Sciences
4. **Names of programmes offered** :
  - B. Sc. (Hons.) in Physics
  - M. Sc. in Physics
  - PhD in Science (Physics)
5. **Interdisciplinary programmes and departments involved** :
  - Interdisciplinary programmes are offered at different levels.
  - GenED courses for UG sem-1 to sem-4
  - Interdisciplinary researches are carried out.
6. **Courses in collaboration with other universities, industries, foreign institutions, etc.**
  - Credit transfer mode: Parts of M. Sc. Sem-4 dissertation and Ph. D. coursework are conducted in collaboration with research institutes like Indian Institute of Astrophysics.
  - Non-credit academic exercise: Students carry out short-term academic activities, such as summer projects at University of Groningen, The Netherlands
7. **Details of programmes discontinued, if any, with reasons:** None
8. **Examination System:**
  - Semester with choice based credit system
9. **Participation of the department in the courses offered by other departments:** No
10. **Number of teaching posts sanctioned, filled and actual** (Professors/Associate Professors/Asst. Professors/others)

	Sanctioned	Filled	Actual (including CAS & MPS)
Professor	4	1 (on lien)	1 (on lien)
Associate Professors	4	4	4
Asst. Professors	13	8	8
Others (UGC Faculty Recharge)	1	1	1

**11. Faculty profile with name, qualification, designation, area of specialization, experience and research under guidance**

Name	Qualification	Designation	Specialization	No. of Years of Experience	No. of PhD/ MPhil students guided for the last 4 years
Arabinda Nayak	Ph D	Associate Professor	Experimental Condensed Matter Physics & Materials Science	Full-time teaching 19 yrs.	2 (Supervising)
Barun Raychaudhuri	Ph D	Associate Professor	Electronics, Semiconductor Device and Remote Sensing	Full-time teaching 19+ yrs.	One student awarded PhD of Cal. Univ. in 2010
Barnali Chakrabarti	Ph D	Associate Professor	Nuclear Physics	15 Years	Two students awarded PhD in last 4 yrs
Debasish Datta	Ph D	Assistant Professor	X-ray & crystallography	10	
Gour Bhattacharya	Ph D	Assistant Professor	Theoretical Particle physics and Cosmology	13.5 years	
Kanan Kumar Datta	Ph D	Assistant Professor (UGC)	Astrophysics & Cosmology	14 months	
Muktish Acharyya	Ph D	Associate Professor	Solid State Physics		
Rabindra Nath Gayen	Ph D	Assistant Professor	Materials Science	5 years	
Ratna Koley	Ph D	Assistant Professor	High Energy Physics, Gravitation	9 Years (after PhD)	
Ritaban Chatterjee	Ph D	Assistant Professor	Astrophysics	Teaching 2.5 yrs. Post Doc. 4 yrs.	
Saumyadip Samui	Ph D	Assistant Professor	Astrophysics & Cosmology	6 yrs (post PhD)	
Somak Raychaudhury	Ph D	Professor (on lien)	Astrophysics & Cosmology		
Suchetana Chatterjee	Ph D	Assistant Professor	Astrophysics and Cosmology	Teaching Experience 2013-2015, Research Experience 2003-2015	3 (ongoing)
Sukanta De	Ph D	Assistant Professor	Experimental Materials Science	Teaching : 3years Post PhD: 9 years	1 ongoing

**28. List of senior Visiting Fellows, adjunct faculty, emeritus professors :** None at present

**29. Percentage of classes taken by temporary faculty:** 20 to 30%

**30. Programme-wise Student Teacher Ratio:**

- UG: 7 ● PG: 4

**31. Number of academic support staff (technical) and administrative staff: sanctioned, filled and actual:**

- Actual: 10

**32. Research thrust areas as recognized by major funding agencies: Main thrust areas:**

- Astrophysics
- Cosmology
- Condensed Matter Physics
- Materials Science
- Earth Science

**33. Number of faculty with ongoing projects from a) national b) international funding agencies and c) Total grants received. Give the names of the funding agencies, project title and grants received project-wise. (Synopsis given here and full List in annexure)**

- Synopsis

Funding Agency	No. of Projects	Fund received (last 2 years)
UGC	4	2991000
DST	6	19370178
CSIR	1	504000
Total (on going) in last two years	11	2,28,6,5178

- Nine teachers 11 ongoing projects.
- **DST-FIST to Physics Department: 1 crore 85 lakh sanctioned**

**34. Inter-institutional collaborative projects and associated grants received**

a) National collaboration

Dr. Barnali Chakrabarti:

1. Prof. Tapan Kumar Das, Retired Professor, Calcutta University.
2. Prof. V. K. B. Kota, PRL, Ahmedabad

b) International collaboration

Dr. Barnali Chakrabarti:

1. Prof. Lorentz Cederbaum, University of Heidelberg, Germany.
2. Prof. Luca Salasnich, University of Padova, Italy.
3. Dr. Andrea Trombettoni, SISSA and ICTP, Italy.
4. Prof. Sylvio Canuto, University of Sao Paulo, Brazil.
5. Prof. M. L. Lekala, University of South Africa, South Africa.
6. Dr. Axel U Lode, University of Basel Switzerland

## Presidency University

Dr. Suchetana Chatterjee

- 1) Prof. Adam Myers (University of Wyoming, USA),
- 2) Prof. Ryan Hickox (Dartmouth College, USA),
- 3) Prof. Zheng Zheng (University of Utah)
- 4) Prof. Jeff Newman (University of Pittsburgh)
- 5) NASA Project entitled, "Modeling AGN Feedback in Cosmological Simulations" PI- Daisuke Nagai

### 19. Departmental projects funded by DST-FIST; UGC-SAP/CAS, DPE; DBT, ICSSR, AICTE, etc.; total grants received.

- DST Fund (total) to individual teachers: 1 crore 18 lakh (rounded)

### 20. Research facility / centre with

- National and state recognition: Laboratories with precision instruments are developed utilizing the fund of DST-FIST. The research facilities can be offered to other interested institutions on requirement.
- international recognition

### 21. Special research laboratories sponsored by / created by industry or corporate bodies:

Two research laboratories have been established and are being upgraded by DST-FIST fund including provision for (i) x-ray diffractometry, (ii) UV-VIS-NIR spectrometer system, (iii) Thin Film Deposition Unit, (iv) Electrochemical Analyzer/ Workstation and others.

### 22. Publications:

- Number of papers published in peer reviewed journals (international): 85
- Monographs
- Chapters in Books
- Edited Books
- Books with ISBN with details of publisher
- Number listed in International Database (For e.g. Web of Science, Scopus,
- Humanities International Complete, Dare Database - International Social Sciences Directory, EBSCO host, etc.)
- Citation Index – range / average Average: 197
- SNIP 0.9 to 2.9
- SJR 1 to 5.2
- Impact Factor: Range 1 to 31, Average 7
- h-index: 7 to 24

*List given in annexure*

### 23. Details of patents and income generated

- Patent obtained at Government expense: Indian Patent Application No. 482/KOL/2013 of 29.04.2013.
- Applicant: Presidency University.
- Inventor: Barun Ray Chaudhuri

- Title of the Invention: “Bidirectional wavelength division multiplexing system and method thereof” No income generated.

**24. Areas of consultancy and income generated:** None

**25. Faculty selected nationally / internationally to visit other laboratories / institutions /industries in India and abroad**

- Dr. Arabinda Nayak visited Japan during 22nd May, 2015 to 27th May, 2015 for the purpose of carrying out experiments at the Indian Beamline at Photon Factory, KEK, Japan.
- Dr. Barnai Chakrabarti visited as visiting Professor in University of South Africa Oct-Nov 2014
- Dr. Debasish Datta Visiting Research Fellow, Ernst Moritz Arndt University of Greifswald, Germany, July, 2006 –August, 2006.
- Dr. Suchetana Chatterjee, Kavli Fellow, Kavli Foundation, USA, Nationally Invited participant at the “Frontiers of Science Meet”, Indo-US Science-Technology Forum
- Dr. Suchetana Chatterjee, External Expert on the Thesis Committee of Ms. My Nguyen, University of Wyoming.
- Dr. Gour Bhattacharya, Visiting Associate at Inter-University Centre for Astronomy and Astrophysics (IUCAA), Pune, during August 2011 – July 2014.

**26. Faculty serving in**

a) National committees

- Dr. Suchetana Chatterjee, University Associate, Inter University Center for Astronomy and Astrophysics, Pune, India

b) International committees

- Dr. Kanan K. Datta is Member, SKA international science working group, Epoch of Reionization & Cosmic Dawn and Coordinator, SKA-India science group for Epoch of Reionization and Cosmology

c) Editorial Boards

- Dr. Mukdish Acharyya has acted as Editorial Board member of
  - Frontiers in interdisciplinary Physics (ISSN 2296-424X)
  - Review of Applied Physics (ISSN 2327-1612)
  - American Journal of Physics and Application (ISSN:2330-4286)
  - Heliyon (Elsevier)

d) any other (please specify)

- Dr. Ritaban Chatterjee: Reviewer to the Cycle 17 NASA Chandra Space Telescope Proposal Peer Review held 2326 June, 2015 at BoSton, Massachusetts, USA.

**27. Faculty recharging strategies (UGC, ASC, Refresher / orientation programmes, workshops, training programmes and similar programmes).**

- Teachers are encouraged to join orientation/refresher courses and attend workshops. Workshop and training school are under consideration.

## Presidency University

### 28. Student projects

- o percentage of students who have done in-house projects including inter-departmental projects: 90% at the present semester
- o percentage of students doing projects in collaboration with other universities/ industry/ institute: 10% at the present semester

### 29. Awards / recognitions received at the national and international level by

- Faculty

Dr. Barnali Chakrabarti nominated as Regular Associate of ICTP for 2015-2020.

- Doctoral / post doctoral fellows

Departmental research fellows with NET/RET: Tamaghna Maitra, Rudrani Kar Chowdhury, Shibsankar Dutta

- Students

KVPY Fellowship: Mr. Amitava Banerjee, Mr. Sunip Mukherjee, Mr. Kaustav Mitra

JBNSTS Fellowship: Mr. Kaustav Mitra, Mr. Anwesh Majumdar, Ms. Puja Roy, Mr. Soumya Roy

### 30. Seminars/ Conferences/Workshops organized and the source of funding (national international) with details of outstanding participants, if any. (List in annexure)

- Weekly seminar/colloquium on various important topics are regularly arranged for student/scholar enrichment

### 31. Code of ethics for research followed by the departments

To achieve academic excellence in conformity with UGC Regulation and with scope for academic collaboration with universities/institutes of international/national repute.

### 32. Student profile programme-wise:

Name of the Programme (refer to question no. 4)	Applications received	Selected		Pass percentage	
		Male	Female	Male	Female
UG (B. Sc. Hons. In Physics) in 2013	2493	31	10	100%	100%
PG (M. Sc. In Physics) in 2013	829	22	8	100%	100%
UG (B. Sc. Hons. In Physics) in 2014	3052	27	3	100%	100%
PG (M. Sc. In Physics) in 2014	1044	22	7	100%	100%
Ph. D. in science (Physics) in 2014	13	4	3	100%	100%
UG (B. Sc. Hons. In Physics) in 2015	1873	35	8	100%	100%
PG (M. Sc. In Physics) in 2015	1000	23	11	100%	100%

### 33. Diversity of students

Name of the Programme (refer to question no. 4)	% of students from the same university	% of students from other universities within the State	% of students from from universities outside the State	Other countries
UG (B. Sc. Hons. In Physics)	N.A.			
PG (M. Sc. In Physics)	12%	88%	0	0
PhD in science (Physics)	57%	43%		

**34. How many students have cleared Civil Services and Defense Services examinations, NET, SET, GATE and other competitive examinations? Give details category-wise.**

- NET-2014: five
- NET-2012: two
- JEST-2015: nine
- JEST-2012: 14
- JAM-2015: ten

**35. Student progression**

Student progression	Percentage against enrolled
UG to PG (from our own students)	12% in current year (in PU) Over all >98%
PG to MPhil	
PG to PhD (from our own students)	8%
PhD to Post-Doctoral	-
Employed ● Campus selection ● Other than campus recruitment	Students are employed in academics, teaching, industry and administration.

**36. Diversity of staff**

<b>Percentage of faculty who are graduates</b>	
of the same university	28.6%
from other universities within the State	71.4%
from universities from other States from	0
universities outside the country	0

**37. Number of faculty who were awarded MPhil, PhD, DSc and DLitt during the assessment period**

None

**38. Present details of departmental infrastructural facilities with regard to**

- a) Library: departmental seminar library with more than 1000 books
- b) Internet facilities for staff and students: Available
- c) Total number of class rooms: 5
- d) Class rooms with ICT facility: 1
- e) Students' laboratories: 7
- f) Research laboratories: 5

**39. List of doctoral, post-doctoral students and Research Associates**

- Ph. D. students from the host institution/university

## Presidency University

1. Tamaghna Maitra, 2. Sukhendu Mukherjee 3. Banashree Sadhukhan 4. Shibsankar Dutta 5. Sangita Bera 6. Rudrani Kar Chowdhury 7. Ajay Halder

- from other institutions/universities:

**40. Number of post graduate students getting financial assistance from the university:** No

**41. Was any need assessment exercise undertaken before the development of new programme(s)? If so, highlight the methodology.**

- The new syllabus for the UG & PG curriculum was formed by consulting external experts and with regular meeting of departmental board of studies. Some new features, such as UG elective and guided project were incorporated.

**42. Does the department obtain feedback from**

a. faculty on curriculum as well as teaching-learning-evaluation? If yes, how does the department utilize the feedback?

- The feedback is obtained through discussions in faculty meeting and board-of-studies meeting and utilized in subsequent teaching-learning processes.

b. students on staff, curriculum and teaching-learning-evaluation and how does the department utilize the feedback?

- Some faculty members obtain student feedback in an informal basis and they implement changes based on discussion with students. A formal student-feedback system is under preparation.

c. alumni and employers on the programmes offered and how does the department utilize the feedback?

**43. List the distinguished alumni of the department (maximum 10)**

- Prof. Prasanta Chandra Mahalanobis, a pioneer of statistics received B. Sc. Hons. Physics (1912) from this department, was associated with the Department from 1917 to 1945 and retired as the Principal of Presidency college in 1948. It was during his association with the Physics Department, that the Indian Statistical Institute was started in a room of the Baker Laboratory of the Physics Department.
- Prof. Sisir Kumar Mitra, honoured as FRS conducted remarkable researches and established fundamental discoveries related to atmospheric ionosphere. He initiated a new department at the University of Calcutta that later became the Institute of Radio Physics and Electronics.
- Prof. Amal Kumar Raychaudhuri, whose phenomenal contribution to general relativity is Raychaudhuri Equation, joined the college in 1961 and attained legendary fame. Students at both the undergraduate and postgraduate levels have testified to his greatness as a teacher. He retired as the departmental head in 1986.
- Prof. Shyamal Kumar Sengupta, received his undergraduate education and was Professor Emeritus in this department. During the two decades of his association with the Presidency College he was a potential teacher and researcher making significant contributions in the field of theoretical nuclear physics and condensed matter physics. He created a large research group in Theoretical Solid State Physics.
- Prof. Rajendralal Sengupta, who headed the Department for a decade, was a co-worker of a Nobel Laureate, Prof. Blackett of the Imperial College of Science and Technology. He was a leading expert in cloud-chamber technology, and his help was sought by high-energy physics laboratories all over India.
- Prof. Bijay Shankar Basak, who joined Presidency College in 1957 from the Indian School of Mines, set up the X-ray Crystallography Laboratory in 1958. Prof Basak was the head of the Department from 1975 to 1982 after which he became Principal of the College.



- Dr. Chanchal Kumar Majumdar was the first Director of the S. N. Bose National Centre for Basic Sciences, Kolkata
- Dr. Ashoke Sen, currently at HRI, Allahabad, selected as FRS added to the glory of the department by his contributions to the String Theory in High Energy Physics. He is among the first recipients of the Fundamental Physics Prize.

It is impossible to encapsulate the works of all the renowned teachers, who have held aloft the banner of the department, in a short historical account but they live in the memory of their students established in every nook and corner of the world.

**44. Give details of student enrichment programmes (special lectures / workshops / seminar) involving external experts.**

- Weekly colloquium from eminent national and international speakers
- Student Presentations in astro-particle tea journal club and even at colloquium slots.
- Student participation in local/national conferences.
- Guided visits and academic trips for students in eminent laboratories/institutions, such as: Inter-University Centre for Astronomy and Astrophysics (IUCAA) and Saha Institute of Nuclear Physics (SINP).
- Students are regularly encouraged to visit national labs, research institutes and execute extra-curricular research projects.
- Special classes are conducted in some courses involving discussion of research topic, paper presentation, interactive learning sessions etc.

**45. List the teaching methods adopted by the faculty for different programmes.**

- In addition to blackboard, audio visual interactive learning
- Regular tutorial and problem solving sessions are organized
- Students are engaged into active learning through class presentation, term-paper work, presentation of research papers.
- In many cases peer review on talks and term paper presentation are adopted.
- Interested UG & PG students carry out summer projects

**46. How does the department ensure that programme objectives are constantly met and learning outcomes are monitored?**

- Continuous evaluation through homework assignments and class tests, tutorial sessions, personal meeting and discussion with students
- Anonymous online feedback taken from students at the end of the semester by individual faculty members through their own initiative.
- Through regular informal discussion session with students at personal level and attempt to provide individual care to students

**47. Highlight the participation of students and faculty in extension activities.**

- Regular attendance of colloquium
- Regular attendance and presentation through talks and posters in conferences and workshops

**48. Give details of “beyond syllabus scholarly activities” of the department.**

- Term paper writing on research topics or history of science
- Several undergraduates and masters students are engaged in independent research with faculty members.
- Faculty regularly hold professional and career development discussion session with students.
- Students take part in national and international conferences and present their research work. Students (even UG and PG) collaborate on national and international research projects.

**49. State whether the programme/ department is accredited/ graded by other agencies? If yes, give details.**

- DST-FIST has evaluated the departmental report and sanctioned a grant of Rs. 1 crore 85 lakh

**50. Briefly highlight the contributions of the department in generating new knowledge, basic or applied.**

- The Physics department has all the way looked after a balanced progress of teaching and research. In order to bring novelty in teaching and enhancing the process of knowledge procurement, weekly colloquium, student participation in symposium/conference, guided visit to eminent laboratories, interactive learning and other such practices are encouraged. Facilities are extended to interested students for carrying out summer projects in India and abroad in addition to regular projects in curriculum.
- The faculty members and researchers have been carrying out research, both theoretical and experimental in several academic fields, such as astrophysics, cosmology, materials, condensed matter, earth science and particle physics. As contribution to new knowledge, total 85 original research papers have been published from Physics department during the last five years on various topics like electrical and magnetic properties of materials, metal and semiconductor devices, thin films, nanocomposites, earth & atmospheric particles, BoSons, black hole, quaser, star formation, 21 cm signal, galaxies, dark energy and many others.

**51. Detail five major Strengths, Weaknesses, Opportunities and Challenges (SWOC) of the department.**

**Strength:** Quality of incoming students, quality of faculty members of different age group with excellent career profile, strong alumni base.

**Weakness:** Lack of research infrastructure and environmental support. Total faculty strength is less than that required.

**Opportunities:** Funds extended by DST and UGC. The location of this Institution, being at the heart of a megacity, it is easy to attract students, teachers, speakers and visitors of good potential and to conduct seminars and related activities.

**Challenges:** To make the department as a world class research centre.

**52. Future plans of the department.**

- To develop experimental equipment & infrastructure for researches on materials science and devices.
- To build research groups incorporating Ph D students, associates and faculty for working on cosmology

Annexures

1. List of Research Projects in Last four Years

Sl. No	Year of Initiation	Year of Completion	Funding agency	PI	Title	Fund Sanctioned (Rs.)	Fund Received (Rs.)	Completed/ongoing
1	2009	2013	CSIR	Arabinda Nayak (CoPI)	Polymer-Inorganic Hybrid Nanocomposites - Preparation, Characterization and their Potential as Nanodielectrics.	13,68,000	13,68,000	Completed
2	2015	2018	UGC	Arabinda Nayak (PI)	Development, synthesis and characterization of ZnSnP <sub>2</sub> chalcopyrite thin film for photovoltaic devices.	11,90,000	7,48,500	Ongoing
3	2013	2016	DST	Kanan Kumar Datta	Unveiling cosmic reionization through radio interferometric observations of neutral hydrogen	22 lakh	15 lakh	Ongoing
4	2015	2017	UGC	Ritaban Chatterjee	Investigating the Effect of Turbulence in the Emission Variability of Blazar Jets	6 lakh	6 lakh	Ongoing
5	2015	2018	DST	Rabindra Nath Gayen	Solution-processed nano-structured superstrate CZTS solar cells	2220000	1740000	Ongoing
6	2012	2017	DST	Sukanta De	Nanostructure materials and their hybrids/composites as super capacitor for energy storage and sensor applications	84,45,000	57,43,593	Ongoing
7	2014	2017	DST	Sukanta De	2-dimensional nanomaterials for flexible photo detector	24,12,000	14,50,000	Ongoing
8	2011	2013	UGC	Debashish Datta	Study of deposition, morphology and thermal fragmentation of supported metal nanoclusters	1,52,000	1,34,000	Completed
9	2015	2017	UGC	Suchetana Chatterjee	Investigating the Halo Occupation Distribution Properties of Active Galactic Nuclei	600,000	600,000	Ongoing
10	2015	2017	UGC	Saumyadip Samui	Study of galactic outflows and their effects on the intergalactic medium	600,000	600,000	Ongoing
11				Barnali Chakrabarti	Many-body effects on the stability and anisotropic deformation of ultracold dipolar gases near Feshbach resonance	22 lakh		Ongoing

## Presidency University

### 2. List of Seminars and Conferences Organized in last three years

Sl No.	date/ Month	Topic	Source of Funding	Status (Local/State/national level (student enrichment programme))
1.	09/08/2014	Topical Conference on Gravity and Cosmology	Presidency University and Registration Charges from the participants	Local
2.	22/12/2014 23/12/2014	Public Lecture Series on Particle Physics and Condensed Matter Physics	Alumni Registration/Donation/Presidency University/Sponsorship	Student enrichment programme.

**In addition, weekly seminar/colloquium on various important topics are regularly arranged for academic enrichment of students, scholars and teachers. Speakers are invited from India and abroad. A few are mentioned below date-wise.**

13.08.2014: Prof. Subir Sarkar, Head, Particle Theory Group, Department of Physics, University of Oxford, UK & Niels Bohr Professor, Niels Bohr Institute, Copenhagen, Denmark.

Title: The road to quantum gravity

20.08.2014: Prof. Satyaban Bhunia, Surface Physics & Material Science Division, Saha Institute of Nuclear Physics, Kolkata.

Title: Physics and realization of low dimensional semiconductors for device applications

03.09.2014: Dr. Shradha Mishra, INSPIRE Faculty, S. N. Bose National Center for Basic Sciences, Kolkata - 700 098.

Title: Role of density field in an active nematic

10.09.2014: Prof. Sudhansu Sekhar Mandal, Department of Theoretical Physics, Indian Association for the Cultivation of Science, Kolkata - 700 032.

Title: Nano-Scale Physics in Strongly Disordered Macroscopic Superconductors

24.09.2014: Dr. Kuntal Ghosh, Machine Intelligence Unit, Indian Statistical Institute, Kolkata - 700 108.

Title: The Psychophysics of Vision

15.10.2014: Prof. Sabyasachi Bhattacharya, A. J. C. Bose Distinguished Professor in Natural Sciences, Presidency University, Kolkata - 700 073.

Title: Persistence of useful memory: what do you see and what can you remember? (Part I)

22.10.2014: Prof. Krishnendu Sengupta, Theoretical Physics Department, Indian Association for the Cultivation of Sciences, Kolkata - 700 032.

Title: Introduction to basic Graphene physics

29.10.2014: Prof. Anuradha Lohia, Vice-Chancellor, Presidency University, Kolkata.

Title: The Uncertainty of Survival

30.10.2014: Dr. Pratap Raychaudhuri, Department of Condensed Matter Physics and Materials Science, Tata Institute of Fundamental Research, Mumbai 400005.

Title: Disordered Superconductors: A TIFR Story

05.11.2014: Prof. Palash B. Pal, Senior Professor, Theory Division, Saha Institute of Nuclear Physics, Kolkata - 700 064.

Title: Discovering particles

19.11.2014: Prof. Arnab Rai Choudhuri, Department of Physics, Indian Institute of Science, Bangalore - 560 012.

Title: The Mysterious Magnetic Personality of Our Sun

21.11.2014: Dr. Deepak Kar, ATLAS Research Associate, University of Glasgow, UK.

Title: LHC: the ingredients of a discovery

07.01.2015: Dr. Dipankar Maitra, Department of Physics/Astronomy, Wheaton College, Massachusetts, USA.

Title: Escaping the fatal attraction of black holes: Recent advances toward understanding relativistic jets

14.01.2015: Prof. Pratik Majumdar, Astroparticle and Cosmology Division, Centre for Astroparticle Physics, Saha Institute of Nuclear Physics, Kolkata.

Title: Exploring the Universe with High Energy Particles and Photons

21.01.2015: Dr. Matt Hilton, Astrophysics & Cosmology Research Unit, University of KwaZulu-Natal, Durban, South Africa.

Title: Searching for galaxy clusters with the Sunyaev-Zel'dovich effect

28.01.2015: Dr. Dipankar Banerjee, Associate Professor, Indian Institute of Astrophysics, Bangalore-560 034.

Title: Magnetic Waves in the Solar Atmosphere and India's first dedicated space mission "Aditya"

04.02.2015: Prof. Dipankar Bhattacharya, Inter-University Centre for Astronomy and Astrophysics (IUCAA), Pune 411007.

Title: Cosmic Explosions

11.02.2015: Indranil Chattopadhyay, Aryabhata Research Institute for observational sciencES (ARIES), Manora Peak, Nainital 263002, Uttarakhand, India.

Title: Numerical Simulation of astrophysical plasma with relativistic equation of state

18.02.2015: Prof. Sabyasachi Bhattacharya, A. J. C. Bose Distinguished Professor in Natural Sciences, Presidency University, Kolkata - 700 073.

Title: Persistence of useful memory: what do you see and what can you remember? (Part I)

25.02.2015: Supriya Chakrabarti, Lowell Center for Space Science and Technology (LoCSST), University of Massachusetts Lowell, USA.

Title: An experimental research programme to directly image exoplanet environment

04.03.2015: Prof. Parthasarathi Majumdar, Department of Physics, Ramakrishna Mission Vivekananda University, Belur, India.

Title: The Quantum and the Continuum: Einstein's Dichotomous Legacies

18.03.2015: Dr. Arnab Kundu, Theory Division, Saha Institute of Nuclear Physics, Kolkata

Title: Gauge-String Duality and Strongly Coupled Systems

25.03.2015: Prof. Debasish Majumdar, Astroparticle Physics & Cosmology Division, Centre for Astroparticle Physics, Saha Institute of Nuclear Physics, Kolkata.

Title: Dark Matter: Evidence, (possible) candidates and detection.

01.04.2015: Dr. Tapas Kumar Das, Physics Group, The Harish-Chandra Research Institute, Allahabad.

Title: Black Hole Shadow Imaging

3. Seminar workshops attended by teachers of the Department in last three years (chronologically)

Sl. No.	Name of Teacher	Title of Seminar	Date	Organized by	Status (national/International)	Role as Resource Person
1	Arabinda Nayak	International Conference on Nanoscience and Technology (ICONSAT 2012)	20 – 23 January, 2012.	ARCI, Hyderabad, India	International	Resource Person
2	Arabinda Nayak	QuantumWise, a Nano molecules/device package	11.01.2014	WBUT, Kolkata and Integrated Microsystem, India	National	Attended
3	Arabinda Nayak	Bringing the Nanoworld Together	24.11.2014 - 5.11.2014	Oxford Instruments	National	Attended
4	Barun Raychaurdhuri	Digital Earth 2015, Canada	5–9 October, 2015	International Society for Digital Earth	International	Contributed Speaker
5	Barun Raychaurdhuri	ICE-CCN-2013, Tuticorin	March 25-26, 2013	Infant Jesus College of Engineering and Technology	International	Contributed Speaker
6	Barun Raychaurdhuri	Remote sensing of environment: North East Indian perspectives	December 4–5, 2014	Dept. of Electronics & Comm. Technology Gouhati University	National	Invited Speaker
7	Barun Raychaurdhuri	UGC sponsored refresher course	June 18 – July 9, 2013	Dept. of Physics, University of Calcutta	National	Invited Speaker
8	Barun Raychaurdhuri	Winter School under UGC	March 4–22, 2013	UGC Networking Resource Centre, University of Calcutta	National	Invited Speaker
9	Kanan K. Datta	Workshop on Statistical Applications to Cosmology and Astrophysics (STATCOS-MO15), ISI, Kolkata	10-13 Feb, 2015	ISI, Kolkata	National	Contributed
10	Kanan K. Datta	Workshop on “Indian Participation in the SKA”	16th Feb, 2015	NCRA-TIFR, Pune	National	Contributed
11	Kanan K. Datta	Advanced workshop on Cosmological Structures from Reionization to Galaxies: Combining efforts from analytical and numerical methods	12-15 May, 2015	ICTP, Trieste, Italy	International	Contributed
12	Kanan K. Datta	TCGC: Topical Conference on Gravity and Cosmology (Eastern Region)	28 Feb, 2015	IIT KGP	National	Contributed
13	Ritaban Chatterjee	Topical Conference on Gravity and Cosmology - Eastern Region (TCGC-ER)	13-12-2013	Saha Institute of Nuclear Physics	National	Invited speaker

Sl. No.	Name of Teacher	Title of Seminar	Date	Organized by	Status (national/International)	Role as Resource Person
14	Ritaban Chatterjee	Meeting of the Astronomical Society of India (ASI)	20-03-2014 to 22-03-2014	IISER, Mohali	National	Poster resenta tion
15	Ritaban Chatterjee	“Introduction to Active Galactic Nuclei” at the Introductory Workshop on Relativistic Astrophysics	21-08-2014 to 23-08-2014	Department of Physics, Gauhati University and IUCAA, Pune	National	Resource person
16	Ritaban Chatterjee	“Multi-Wavelength Study of Successive Outbursts in the Blazar PKS 0208-512” at the Topical conference on Hard X- Ray Astronomy: Astrosat and Beyond	24-09-2014 to 26-09-2014	Tata Institute of Fundamental Research. Held at the International Centre, Goa	Interna tional	Invited speaker
17	Ritaban Chatterjee	“Nature of Multi-band Outbursts of Fermi Blazars” at the conference titled “Extragalactic Relativistic Jets: Cause and Effect”	14-10-2015 to 17-10-2015	ICTS, Bangalore	Interna tional	Invited speaker
18	Rabindra Nath Gayen	Singapore-India Programme of Cooperation (POC) Workshop on “Advanced Materials and Energy	April 21-24, 2013	IACS, Kolkata	Interna tional	Partici pant
19	Rabindra Nath Gayen	National Workshop on Application of Radiation in Physical, Chemical and Life Sciences	September 04-06, 2013	UGC-DAE Consortium for Scientiic Research, Kolkata Centre & Centre for Research in Nanosci-ence & Nanotechnology, University of Calcutta	National	Partici pant
20	Rabindra Nath Gayen	Six Days Training Programme on Computer Interfaced Science Experiments	28th April , 2014 to 3rd May,2014	Inter-University Accelerator Center, New Delhi	National	Partici pant
21	Rabindra Nath Gayen	Bringing the Nanoworld Together	24-25 November, 2014	Oxford Instruments at SINP, Kolkata	Interna tional	Partici pant
22	Rabindra Nath Gayen	National symposium on Recent Trends in Instrumentation Science and Technology	19-21 March 2015	Department of Instrumentation Science, Jadavpur University, kolkata	National	Oral presentation
23	Ratna Koley	COSMOCRUISE 2015: At the Edge of Discovery	2nd - 9th September, 2015	Institute de Fisica de Cantabria,Barcelona, Spain	Interna tional	Invited Speaker
24	Suchetana Chatterjee	Supermassive Black Holes and their Host Dark Matter Halos	14/10/2015	SINP	Interna tional	Invited Speaker

## Presidency University

Sl. No.	Name of Teacher	Title of Seminar	Date	Organized by	Status (national/International)	Role as Resource Person
25	Suchetana Chatterjee	Presidency University Cosmology Research Highlights	10/08/2015-12/08/2015	IUSSTF and US-National Academy of Sciences	International	Invited Participant
26	Suchetana Chatterjee	Supermassive Black Holes and their Host Dark Matter Halos	07/08/2015	University of Wyoming	International	Invited Speaker
27	Suchetana Chatterjee	IUCAA visit as part of the Associateship programme	30/05/2015-20/06/2015	IUCAA	National	Resource person
28	Suchetana Chatterjee	The Halo Occupation Distribution of Active Galactic Nuclei	10/02/2015-13/02/2015	ISI and IUCAA	National	Contributed Speaker
29	Suchetana Chatterjee	A Direct Measurement of the Quasar Mean Occupation Function: Breaking Degeneracies between Halo Occupation Distribution Models	28/01/2015-30/01/2015	SINP	International	Contributed Speaker
30	Suchetana Chatterjee	A Direct Measurement of the Quasar Mean Occupation Function: Breaking Degeneracies between Halo Occupation Distribution Models	20/03/2015-22/03/2015	Astronomical Society of India (IISER Mohali)	International	Contributed Speaker
31	Suchetana Chatterjee	Cosmological Evolution of Supermassive Black Holes	13/12/2013	SINP	Local	Invited Speaker
32	Suchetana Chatterjee	A Direct Measurement of the Mean Occupation Function of Quasars: Breaking Degeneracy of Halo Occupation Distribution Models	09/09/2013-10/09/2013	California Institute of Technology	International	Contributed Poster
33	Suchetana Chatterjee	X-ray Surface Brightness Profiles of Active Galactic Nuclei in the Extended Groth Strip: Implications for AGN Feedback	25/08/2013	University of Kentucky	International	Invited Speaker
34	Suchetana Chatterjee	The Halo Occupation Distribution of X-ray-bright Active Galactic Nuclei: A Comparison with Luminous Quasars	05/08/2013-09/08/2013	KITP Santa Barbara	International	Contributed Poster
35	Suchetana Chatterjee	The Halo Occupation Distribution of X-ray-bright Active Galactic Nuclei: A Comparison with Luminous Quasars	21/05/2013	MIT Haystack Observatory	International	Contributed Speaker



Sl. No.	Name of Teacher	Title of Seminar	Date	Organized by	Status (national/ International)	Role as Resource Person
36	Suchetana Chatterjee	Studying Structure Formation in the Universe: New Frontiers and Future Challenges	09/05/2013	IIT Kharagpur	National	Invited Speaker
37	Sukanta De	National Workshop on Application of Radiation in Physical, Chemical and Life Sciences	4th-6th Sept, 2013	Centre for Research in Nanoscience & Nanotechnology, University of Kolkata	National	
38	Sukanta De	Bringing the Nanoworld Together	24th-25th November 2014	Oxford Instruments at SINP, Kolkata	National	

**4. List of Publications in Papers (peer-reviewed only), Books, Monographs, Last Four Years (Year wise and alphabetically)**

**2011**

**Acharyya M.** (2011), Form invariant Sommerfeld electrical conductivity in generalised d - dimensions, Communications in Theoretical Physics, 56 , 943(IF:0.74)

**Acharyya M.** and Acharyya A. (2011), Evidence of invariance of time scale at critical point in the Ising meanfield equilibrium equation of state, Communications in Theoretical Physics, 55 , 1109 (IF:0.74)

**Acharyya M.**(2011), Monte Carlo study of the dynamic phase transition in Ising metamagnet driven by oscillating magnetic field, Journal of Magnetism and Magnetic Materials, 323, 2872 (IF:1.78)

**Acharyya M.** (2011), Nonequilibrium phase transition in the kinetic Ising model driven by propagating magnetic field wave, Physica Scripta, 84, 035009 (IF:1.20)

**Acharyya M.** (2011), Pauli spin paramagnetism and electronic specific heat in generalised d dimensions, Communications in Theoretical Physics, 55, 901(IF:0.74)

**Gayen, R. N.,** Hussain, S., Pal, A. K., 2011, CdS/ZnO nanorods as novel window layer for solar cell application. Journal of Nano Energy and Power Research, v.1, p. 71-81.

**Gayen, R. N.,** Sarkar, K., Hussain, S., Bhar, R., Pal, A.K., 2011, ZnO thin films by modified sol-gel technique. Indian Journal of Pure and Applied Physics, v. 49, p. 470-477. (Citation: 36; Impact Factor of the Journal: 0.766)

Haldar, I., Biswas, M., and **Nayak, A.,** 2011, Microstructure, dielectric response and electrical properties of polypyrrole modified poly (N-vinylcarbazole) – Fe<sub>3</sub>O<sub>4</sub> (PNVC - Fe<sub>3</sub>O<sub>4</sub>) nanocomposites. Synthetic Metals, **Vol. 161**, P. 1400 – 1407. (Impact Factor: 1.829).

Haldar, I., Kundu, A., Biswas, M., and **Nayak, A.,** 2011, Preparation and evaluation of a poly (N-vinylcarbazole) – Fe<sub>3</sub>O<sub>4</sub> (PNVC-Fe<sub>3</sub>O<sub>4</sub>) nanocomposite. Matter. Chem & Phys., **Vol. 128**, P. 256 – 264. (Impact Factor: 2.234).

**Raychaudhuri, B.,** 2011, On the determination of the emission wavelength of an infrared LED with common laboratory instruments, European Journal of Physics, v. 32, p.935 (Impact Factor 0.619)

Sharma, M. K., **Gayen, R. N.,** Pal, A. K., Kanjilal, D., Chatterjee, R., 2011, Complex impedance spectroscopy of Mn-doped Zinc Oxide nanorods films. Solid State Communications, v. 151, p. 1182-1187. (Citation: 08; Impact Factor of the Journal: 1.897)

## Presidency University

Sharma, M. K., **Gayen, R. N.**, Pal, A. K., Kanjilal, D., Chatterjee, R., 2011, Room Temperature Ferromagnetism in Mn doped ZnO nanorods prepared by hybrid wet chemical route. *Journal of Alloys and Compounds*, v.509, p. 7259-7266. (Citation: 11; Impact Factor of the Journal: 2.999)

### 2012

**Acharyya A.** and Acharyya M.(2012), Bose - Einstein condensation in arbitrary dimensions, *Acta Physica Polonica B*, 43 , 1805 (IF:1.01)

**Acharyya M.** (2012), Nonequilibrium phase transition in the kinetic Ising model: Absence of tricritical behaviour in presence of impurities, *Acta Physica Polonica B*, 43 , 2041.(IF:1.01)

Bonning, E. W., Urry, C. M., Bailyn, C., Buxton, M., **Chatterjee, R.**, Coppi, P., Fossati, G., Isler, J., Maraschi, L., 2012, SMARTS Optical and Infrared Monitoring of 12 Gamma-Ray bright Blazars, *Astrophysical Journal*, v. 756, p. 13-28. (Citation: 53; Impact Factor of the Journal: 5.993)

Buxton, M. M., Bailyn, C. D., Capelo, H. L., **Chatterjee, R.**, Dincer, T., Kalemci, E., Tomsick, J. A., 2012, Optical and Near Infrared Monitoring of the Black Hole X-Ray Binary GX 339-4 during 2002-2010, *Astronomical Journal*, v. 143, p. 130-145. (Citation: 23; Impact Factor of the Journal: 4.024)

Chakravorty, S., **Samui, S.** and Gachhui, R., SSDNA Cutter v0.0 a new in silico RFLP tool in C, 2012, *Advances in Bioscience and Biotechnology*, 3, 321 ( citation 0, impact factor 1.8)

**Chatterjee, R.**, Bailyn, C., Bonning, E. W., Buxton, M., Coppi, P., Fossati, G., Isler, J., Maraschi, L., Urry, C. M., 2012, Similarity of the Optical-IR and Gamma-Ray Variability of Fermi Blazars, *Astrophysical Journal*, v. 749, p. 191-204. (Citation: 40; Impact Factor of the Journal: 5.993)

**Chatterjee, S.**, Degraf, C., Richardson, J., Zheng, Z., Nagai, D., and DiMatteo, T., 2012, The Halo Occupation Distribution of Active Galactic Nuclei. *Monthly Notices of the Royal Astronomical Society*, v. 419, p. 2657-2669. (Citation: 21: Impact Factor of the Journal: 5.521)

**Datta, D.**, Mondal, S. and Bhattacharyya, S. R., 2012, Growth process of GaAs ripples as a function of incident Ar-ion dose, *Appl. Surf. Sci.* v. 258, p. 4152. (Cited in 2 publications. , Impact factor: 2.103)

**Datta, K. K.**, Garrelt Mellema, Yi Mao, Ilian T. Iliev, Paul R. Shapiro, 2012, Light cone effect on the reionization 21-cm power spectrum, *MNRAS*, v. 424, p. 1877 (Citation: 21, Impact factor: 5.1)

**Datta, K. K.**, Martina M. Friedrich, Garrelt Mellema, Ilian T. Iliev, Paul Shapiro, 2012, Prospects of observing a quasar HII region during the Epoch of Reionization with redshifted 21cm, *MNRAS*,

**Gayen, R. N.**, Hussain, S., Ghosh, D., Bhar, R., Pal, A.K., 2012, Two-source co-evaporation technique for synthesis of indium phosphide films with controlled composition. *Journal of Alloys and Compounds*, v. 531, p. 34-40. (Citation: 02 ; Impact Factor of the Journal: 2.999)

**Gayen, R. N.**, Hussain, S., Bhar, R., Pal, A.K., 2012, Synthesis and characterization of Indium phosphide films prepared by co-evaporation technique. *Vacuum*, v. 86, p. 1240-1247. (Citation: 02 ; Impact Factor of the Journal: 1.858)

Haldar, I., Biswas, M., and **Nayak, A.**, 2012, Preparation and evaluation of microstructure, dielectric and conductivity (ac/dc) characteristics of a polyaniline/ poly N-vinylcarbazole/ Fe<sub>3</sub>O<sub>4</sub> nanocomposites. *J. Polym. Res.*, **Vol. 19**, P. 9951:1-9. (Impact Factor: 1.733).

Haldar, I., Biswas, M., **Nayak, A.** and Sinha Ray, S., 2012, Morphological, dielectric and electrical conductivity characteristics of clay-containing nanohybrids of poly (N-vinylcarbazole) and polypyrrole. *J. Nanosci. Nanotech.*, **Vol. 12**, P. 7841 – 7848. (Impact Factor: 1.563).

Hussain, S., **Gayen, R. N.**, Dutt, M. B., Pal, A. K., 2012, Surface modification of GaAs induced by argon ion implantation. *Indian Journal of Pure and Applied Physics*, v.50, p. 650-656. (Citation: 01 ; Impact Factor of the Journal: 0.766)

King, P.J., Higgins, T. M., **De, S.**, Nicoloso, N., and Coleman, J.N., 2012, Percolation Effects in Supercapacitors with Thin, Transparent Carbon Nanotube Electrodes, *Percolation Effects in Supercapacitors with Thin, Transparent Carbon Nanotube Electrodes*. *ACS Nano* v. 6, p. 1732-1741. (Citation: 29, Impact factor: 10.774)

Raychaudhuri, B., 2012, Remote sensing of solar induced chlorophyll fluorescence at atmospheric oxygen absorption band around 760 nm and simulation of that absorption in laboratory, *IEEE Transactions on Geoscience and Remote Sensing*, v. 50, p. 3908 (Impact Factor 2.933)

**Raychaudhuri, B.**, 2012, Synthesis of mixed pixel hyperspectral signatures, *International Journal of Remote Sensing*, v. 33, p. 1954 (Impact Factor 1.359)

Richardson, J., Zheng, Z., **Chatterjee, S.**, Nagai, D., and Shen, Y., 2012, The Halo Occupation Distribution of SDSS Quasars. *Astrophysical Journal*, v755, p.30:12 (Citation: 24: Impact Factor of the Journal: 6.733)

Sorel, S., Lyons, P. E., **De, S.**, Dickerson, J.C., and Coleman, J.N., 2012, The dependence of the optoelectrical properties of silver nanowire networks on nanowire length and diameter. *Nanotechnology*, v. 23, p.185201. (Citation: 31, Impact factor: 3.98). v. 424, p. 762 (Citation: 21, Impact factor: 5.1 )

## 2013

**Acharyya M.**, (2013), Random field Ising model swept by propagating magnetic field wave: Athermal nonequilibrium phase diagram, *J. Magn. Magn. Mater.* 334 11 (IF:2.00).

**Berrington, R. C.**, Brotherton, M. S., Gallagher, S. C., Ganguly, R., Shang, Z., DiPompeo, M., Chatterjee, R., Lacy, M., Gregg, M. D., Hall, P. B., Laurent-Muehleisen, S. A., The X-ray Spectrum and Spectral Energy Distribution of FIRST J155633.8+351758: a LoBAL Quasar with a Probable Polar Outflow", 2013, *MNRAS*, v. 436, p. 3321-3330. (Citation: 2; Impact Factor of the Journal: 5.107)

**Chatterjee, R.**, Fossati, G., Urry, C. M., Bailyn, C. D., Maraschi, L., Buxton, M., Bonning, E. W., Isler, J., Coppi, P., 2013, An Optical-Near-Infrared Outburst with No Accompanying Gamma-Rays in the Blazar PKS 0208-512, *Astrophysical Journal Letters*, v. 763, p. L11-L16. (Citation: 19; Impact Factor of the Journal: 5.339)

**Chatterjee, R.**, Nalewajko K., Myers, A., 2013, Implications of the Anomalous Outburst in the Blazar PKS 0208-512. *Astrophysical Journal Letters*, v. 771, p. L25-L30. (Citation: 8; Impact Factor of the Journal: 5.339)

**Chatterjee, S.**, Nguyen, M., Myers, A., and Zheng, Z., 2013, A Direct Measurement of the Mean Occupation Function of Quasars: Breaking Degeneracy of Halo Occupation Distribution Models', *Astrophysical Journal*, v779, p147:10 (Citation: 9: Impact Factor of the Journal: 6.28)

**Datta, D.**, Shen, Jie and Esaulov, Vladimir A., 2013, Hydrogen negative ion formation on a graphite HOPG surface, *Nucl. Instrum. Meth. in Phys. Res. B* v. 315, p. 42. (Cited in 1 publication, Impact factor: 1.211)

Haldar, I., Biswas, M., **Nayak, A.** and Sinha Ray, S., 2013, Dielectric Properties of Polyaniline-Montmorillonite Clay Hybrids. *J. Nanosci. Nanotech.*, Vol. 13 (1-6), P. 1824-1829. (Impact Factor: 1.563).

Isler, J. C., Urry C. M., Coppi, P., Bailyn, C. D., **Chatterjee, R.**, Fossati, G., Bonning, E. W., Maraschi, L., Buxton, M., 2013, A Time Resolved Study of the Broad Line Region in Blazar 3C454.3, *Astrophysical Journal*, v. 779, p. 100-109. (Citation: 11; Impact Factor of the Journal: 5.993)

Jensen, Hannes; **Datta, K. K.**; Mellema, Garrelt; Chapman, Emma; Abdalla, Filipe B.; Iliev, Ilian T.; Mao, Yi; Santos, Mario G.; Shapiro, Paul R.; Zaroubi, Saleem; Bernardi, G.; Brentjens, M. A.; de Bruyn, A. G.; Ciardi, B.;

## Presidency University

Harker, G. J. A.; Jelić, V.; Kazemi, S.; Koopmans, L. V. E.; Labropoulos, P.; Martinez, O.; Offringa, A. R.; Pandey, V. N.; Schaye, J.; Thomas, R. M.; Veligatla, V.; Vedantham, H.; Yatawatta, S., 2013, Probing reionization with LOFAR using 21-cm redshift space distortions, *MNRAS*, V. 435, p.460-474, (Citation: 21, Impact factor : 5.1)

Jose, C., Subramanian, K., Srianand, R., **Samui, S.**, Spatial Clustering of high redshift Lyman Break Galaxies, 2013, *Monthly Notices of the Royal Astronomical Society*, 429, 2333 ( citation 6, impact factor 5.2)

Mellema et al (including **Datta, K. K.**), 2013, Reionization and the Cosmic Dawn with the Square Kilometre Array, *Experimental Astronomy*, V. 36, pp. 235-318, (Citation: 65, Impact factor )

Moriarty, G. P. , **De, S.**, King, P. J., Khan, U., Via, M., King, J.A. , Coleman, J. N. ,and Grunlan, J. C., 2013, Thermoelectric behaviour of organic thin film nanocomposites. *J. Poly. Sc. Part B: Poly. Phys.* v. 51, p.119-123. (Scitation: 24, Impact factor: 1.53)

Richardson, J., **Chatterjee, S.**, Zheng, Z., Myers, A., and Hickox, R., 2013, The Halo Occupation Distribution of X-ray-bright Active Galactic Nuclei: A Comparison with Luminous Quasars, *Astrophysical Journal*, v774, p143:11 (Citation: 13: Impact Factor of the Journal: 6.28)

Russell, D., Markoff, S., Casella, P., Cantrell, A. G., **Chatterjee, R.**, Fender, R., Gallo, E., Gandhi, P., Homan, J., Maitra, D., Miller-Jones, J., O'Brien, K., Shahbaz, T., 2013, Jet Spectral Breaks in Black Hole X-Ray Binaries, *Russell, MNRAS*, v. 429, p. 815-832. (Citation: 31; Impact Factor of the Journal: 5.107)

Shapiro, Paul R.; Mao, Yi; Iliev, Ilian T.; Mellema, Garrelt; **Datta, K. K.**; Ahn, Kyungjin; Koda, Jun, , 2013, Will Nonlinear Peculiar Velocity and Inhomogeneous Reionization Spoil 21 cm Cosmology from the Epoch of Reionization?, *PRL*, vol. 110, Issue 15, id. 151301, (Citation:20, Impact factor: 7.512)

Zackrisson, Erik; Asadi, Saghar; Wiik, Kaj; Jönsson, Jakob; Scott, Pat; **Datta, K. K.**; Friedrich, Martina M.; Jensen, Hannes; Johansson, Joel; Rydberg, Claes-Erik; Sandberg, Andreas, 2013, Hunting for dark halo substructure using submilliarcsecond-scale observations of macrolensed radio jets, *MNRAS*, v. 431, p. 2172, (Citation: 10, Impact factor: 5.1 )

## 2014

**Acharyya M.** (2014), Dynamic Symmetry Breaking Breathing and Spreading Transitions in Ferromagnetic Film Irradiated by Spherical Electromagnetic Wave, *J. Magn. Magn. Mater.*, 354, 349 (IF:1.97)

**Acharyya M.** (2014), Nucleation in Ising ferromagnet by a field spatially spreading in time, *Physica A*, 403, 94 (IF1.72)

**Acharyya M.** (2014), Polarised electromagnetic wave propagation through the ferromagnet: Phase boundary of dynamic phase transition, *Acta Physica Polonica B*, 45 , 1027 (IF:1.12)

Chen X, **Chatterjee R.**, Zhang H, Pohl M, Fossati G, Boettcher M, Bailyn CD, Bonning EW, Buxton M, Coppi P, Isler J, Maraschi L, Urry M. "Magnetic Field Amplification and Flat Spectrum Radio Quasars", 2014, *MNRAS*, 441, 2188-2199. (Citation: 5; Impact Factor of the Journal: 5.107)

**Datta, D.** and Bhattacharyya, S. R., 2014, Mechanism of ion-induced mixing phenomena in Gold–Nickel bilayer on Si substrate. *Appl. Phys. A* v. 116, p. 1455. (Impact factor: 1.7)

**Datta, K. K.**; Jensen, Hannes; Majumdar, Suman; Mellema, Garrelt; Iliev, Ilian T.; Mao, Yi; Shapiro, Paul R.; Ahn, Kyungjin, , 2014, Light cone effect on the reionization 21-cm signal - II. Evolution, anisotropies and observational implications , *MNRAS*, v. 442, p.1491-1506, (Citation: 6, Impact factor: 5.1 )

**Gayen, R. N.**, Bhattacharyya, S. R., Jana, P., 2014, Temperature dependent current transport of Pd/ZnO nanowire Schottky diodes. *Semiconductor Science and Technology*,v. 29, p. 095022. (Citation: 02 ; Impact Factor of the Journal: 2.190)

Haldar, I., Biswas, M., and **Nayak, A.**, 2014, Dielectric and Conductivity Characteristics of CuCl<sub>2</sub> Doped Poly (N-vinyl carbazole) and Its Hybrid Nanocomposites with Fe<sub>3</sub>O<sub>4</sub>. J. Nanosci. Nanotech., **Vol. 14** (N.8), P. 5774-5778. (*Impact Factor: 1.563*).

Haldar, I., Biswas, M., and **Nayak, A.**, 2014, Some Observations on the Dielectric and Conductivity Behavior of Nanocomposites of Polyaniline with Fe<sub>3</sub>O<sub>4</sub> and CuFe<sub>3</sub>O<sub>4</sub>. Polymer-Plastics Technol. & Engg., **Vol. 53**, P. 1317-1326. (*Impact Factor: 1.522*).

Haldar, S. K., **Chakrabarti B.**, Bhattacharya S., Das T. K. “Condensate fraction and critical temperature of interacting Bose gas in anharmonic trap.”, Eur. Phys. J. D 68, 262 (2014), (*Impact Factor: 0.619*).

Haldar, S. K., **Chakrabarti, B.**, Chavda, N. D., Das, T. K., Canuto, S., & Kota V. K. B. “Level-spacing statistics and spectral correlations in diffuse van der Waals clusters,” Phys. Rev. A 89, 043607 (2014), (*Impact Factor: 2.729*).

JCAP, Issue 09, article id. 050, (Citation: 5, Impact factor: : 5.81 )

Lekala, M. L., **Chakrabarti, B.**, Rampho, G. J., Das, T. K., Sofianos, S. A. and Adam, R. M. Behavior of trapped ultracold dilute Bose gases at large scattering length near a Feshbach resonance. Phys. Rev. A 89, 023624 (2014).

MacDonald, R. K. D., Bailyn, C. D., Buxton, M., Cantrell, A. G., **Chatterjee, R.**, Kennedy-Shaffer, R., Orosz, J. A., Markwardt, C. B., Swank, J. H., 2014, The Black Hole Binary V4641 Sagittarii: Activity in Quiescence, Astrophysical Journal, v. 784, p. 2-20. (Citation: 8; Impact Factor of the Journal: 5.993)

Majumdar, Suman; Mellema, Garrelt; **Datta, K. K.**; Jensen, Hannes; Choudhury, T. Roy; Bharadwaj, Somnath; Friedrich, Martina M., 2014, On the use of seminumerical simulations in predicting the 21-cm signal from the epoch of reionization, MNRAS, v. 443, p.2843-286, (Citation: 13, Impact factor: 5.1 )

**Nayak, A.** and Bhunia, S., 2014, Microstructure and dielectric functions of Ge nanocrystals embedded between amorphous Al<sub>2</sub>O<sub>3</sub> films: study of confinement and disorder. J. Exptl. Nanosci., Vol. 9 (5), P.463-474. (Impact Factor: 1.004).

**Raychaudhuri B.**, 2014, Solar-induced fluorescence of terrestrial chlorophyll derived from the O<sub>2</sub>-A band of Hyperion hyperspectral images, Remote Sensing Letters, v. 5, p. 941 (Impact Factor 1.427)

Roy K., **Chakrabarti B.**, Kota V. K. B. “Statistical properties of spectral fluctuations of N interacting BoSons in an harmonic trap,” Phys. Rev. E 90, 052137 (2014), (Impact Factor: 2.302).

**Samui, S.**, Star formation in high redshift galaxies including Supernova feedback: effect on stellar mass and luminosity functions, 2014, New Astronomy, 30, 89 ( citation 1, impact factor 1.4)

Sarkar, S.K., Raul, K.K., Pradhan, S.S., Basu, S., **Nayak, A.**, 2014, Magnetic Properties of Graphite Oxide and Reduced Graphene Oxide. Physica E, **Vol. 64**, P. 78-82. ( Impact Factor: 1.553).

Villaescusa-Navarro, Francisco; Viel, Matteo; **Datta, K. K.**; Choudhury, T. Roy, 2014, Modeling the neutral hydrogen distribution in the post-reionization Universe: intensity mapping

Vivek, M., R. Srianand , P. Petitjean, V. Mohan, A. Mahabal & **Samui, S.**, Variability in Low Ionization Broad Absorption Line Outflows, 2014, MNRAS, 440, 799 ( citation 7, impact factor 5.2)

## 2015

**Acharyya M.** (2015), Ising metamagnet driven by propagating magnetic field wave: Nonequilibrium phases and transitions, J. Magn. Magn. Mater., 382, 206 (IF:1.97).

**Acharyya M.**, (2015), Model and statistical analysis of the motion of a tired random walker in continuum, Journal of Modern Physics 6 , 2021 (IF:0.78).

## Presidency University

**Acharyya M.**, (2015), Standing spin wave mode in RFIM: Patterns and athermal nonequilibrium phases, *J. Magn. Mater.*, 394, 410 (IF:1.97).

**Bhattacharya, G.**, Mukherjee, Pradip, Singha-Roy, Amit, Saha, Anirban, “The role of potential in the ghost-condensate dark energy model” *Eur. Phys. J. C* 75 (2015) 84, (Impact Factor: 0.619).

**Chatterjee, S.**, Newman, J., Jeltema, T., Myers, A., Aird, J., Bundy, K., Conselice, C., Cooper, M., Laird, E., Montero-Dorta, A., Nandra, K., and Willmer C., 2015, X-ray Emissions in Non-AGN Galaxies at  $z \sim 1$ , *Astrophysical Journal*, v806, 136:8 (Citation: 0: Impact Factor of the Journal: 5.99)

**Chatterjee, S.**, Newman, J., Jeltema, T., Myers, A., Aird, J., Coil, A., Cooper, M., Finoguneov, A., Laird, E., Montero-Dorta, A., Nandra, K., Willmer, C., and Yan, R., 2015, X-ray Surface Brightness Profiles of Active Galactic Nuclei in the Extended Groth Strip: Implications for AGN Feedback, *Publications of the Astronomical Society of the Pacific*, v127, p716-725 (Citation: 0: Impact Factor of the Journal: 3.5)

**Gayen, R. N.**, Bhattacharyya, S. R., 2015, Electrical Characteristics and Rectification performance of wet chemically synthesized vertically aligned n-ZnO nanowire/p-Si Heterojunction. *Journal of Physics D: Applied Physics*, Accepted for publication. (Impact Factor of the Journal: 2.721)

**Gayen, R. N.**, Laha, P., 2015, Single step synthesis and optical properties of Fe-Ag bimetallic nanoparticles. *Journal of Nanoscience and Nanotechnology*, Accepted for publication. (Impact Factor of the Journal: 1.556)

**Gayen, R. N.**, Paul, R., 2015, Nanocrystalline Zn<sub>1-x</sub>Mn<sub>x</sub>O thin film based transparent Schottky diodes. *Thin Solid Films*, Article In Press, <http://dx.doi.org/10.1016/j.tsf.2015.10.068>. (Citation: 00 ; Impact Factor of the Journal: 1.759)

Ghara, R., Choudhury, T. Roy; **Datta, K. K.**, 2015, 21 cm signal from cosmic dawn: Imprints of spin temperature fluctuations and peculiar velocities, *MNRAS*, 2015, v. 447, p. 1806, (Citation: 12, Impact factor : 5.1)

Ghara, R., **Datta, K. K.** and T. Roy Choudhury, 2015, 21 cm signal from cosmic dawn – II. Imprints of the light-cone effects, *MNRAS*, v. 453, 3143–3156, (Citation: 4, Impact factor : 5.1)

Guha Sarkar, T., **Datta K. K.**, 2015, On using large scale correlation of the Ly-alpha forest and redshifted 21-cm signal to probe HI distribution during the post reionization era, *JCAP*, Issue 08, article id. 001, (Citation: 0, Impact factor : 5.81)

Majumdar, S., Jensen, Hannes; Mellema, Garrelt; Chapman, Emma; Abdalla, Filipe B.; Lee, Kai-Yan; Iliev, Ilian T.; Dixon, Keri L.; **Datta, K. K.**; Ciardi, Benedetta; Fernandez, Elizabeth R.; Jelić, Vibor; Koopmans, Léon V. E.; Zaroubi, Saleem, 2015, Effects of the sources of reionization on 21-cm redshift-space distortions, *MNRAS* (accepted), (Citation: 1, Impact factor: 5.1)

Villaescusa-Navarro, Francisco; Viel, Matteo; Alonso, David; **Datta, K. K.**; Bull, Philip; Santos, Mario G., 2015, Cross-correlating 21cm intensity maps with Lyman Break Galaxies in the post-reionization era, *JCAP*, Issue 03, article id. 034, (Citation: 1, Impact factor : 5.81)

## 5. List of Conference Publications Last Four Years (Year wise and alphabetically)

### 2013

**Raychaudhuri, B.**, Remote sensing of atmospheric nanoparticles and effect of wavelength on the size estimation, Proceedings of the IEEE international conference “ICE-CCN’13” March 25–26, 2013, Infant Jesus College of Engineering and Technology, Tuticorin, India, IEEE Catalog No. CFP13IIN-ART, pp. 104–108, 2013 (ISBN 978-1-4673-5036-5)

2014

**Acharyya M.**, Patterns, dynamics and phase transitions in Ising ferromagnet driven by magnetic field wave, 2014, Journal of Physics: Conference Series (IOP) 638 (2015) 012008. (DOI:10.1088/1742-6596/638/1/012008) in the international conference STATPHYS-VIII, held at SNBNCBS, Kolkata, India, December 1-5, 2014 (Invited Speaker)

## 6. Synopsis of Publications

Publications		2011	2012	2013	2014	2015	Total
Paper (peer-reviewed)	National						
	International	12	21	16	22	14	85
Books & Monographs	National						
	International						
Articles in magazine/Newspaper							

## 7. Summer Projects conducted for students from other institutes and for own students and summer projects arranged for own students in other institutes

### Students from other Institute

Under Dr. Sukanta De:

Pijush Kanti Dhara, B. Tech (Electrical Engg.), Govt. College of Engg. & textile Tech. Berhampore,

(a) "Synthesis and characterization of Graphene and reduced Graphene Oxide", 20/7/2013 to 21/11/2013

(b) "Electrical Properties of Reduced Graphene Oxide-Poly (Vinyl Alcohol) Nanocomposites", 5/1/2014 to 6/5/2014

Under Dr. Kanan Datta:

Mafuz Golam (MSc from IIT KGP)-2015

Under Dr. Suchetana Chatterjee:

Anirban Roy (Burdwan University) 2014

**For own students:** All students in PG Sem-4 and UG Sem-6 in Physics have to carry out a project work as part of the curriculum. Some willing students conduct extra-curricular projects also, as mentioned below.

Under Dr. Suchetana Chatterjee:

- Somdutta Ghosh (BSc 3rd yr, extra-curricular project titled "Modeling the Emission Variability in Accretion Disks Around Black Holes").
- Namrata Roy (BSc 3rd yr-MSc 1st yr, Extra-curricular project titled "Emission Variability of Quasars").
- Aritra Ghosh (BSc 3rd yr, Extra-curricular project titled "Gamma-Ray Variability of Fermi Blazars").
- Anwesh Majumder (BSc 2nd yr, Extra-curricular project titled "Gravitational N-Body Simulation and Simple Application to Solar System Dynamics").
- Alankar Dutta (BSc 2nd yr, Extra-curricular project titled "Detection of Extrasolar Planets: Modeling Transit Light Curves").

## Presidency University

- Mr. Ranajay Dutta (BSc 2nd yr, Extra-curricular project titled “Detection of Extrasolar Planets from Kepler Data”).

Under Dr. Barun Raychaudhuri:

- Puja Roy, BSc 2nd Year 2014, project entitled, “Ground-Based Spectroscopic Studies on Atmospheric Water Vapour and its Seasonal Changes” for receiving Research Project Mentorship Grant under Scholarship for Higher Education, DST-INSPIRE programme.
- Sayantani Kayal, BSc 2nd Year 2015, project entitled, “Studies on the properties of semiconductor p-n junction under illumination: validated with solar cell and photodiodes” for receiving Research Project Mentorship Grant under Scholarship for Higher Education, DST-INSPIRE programme.
- Swadhiti Maji, BSc 2nd Year 2015, project entitled, “Studies on light emission from forward biased p-n junctions: experimental verification with light emitting diodes and semiconductor laser” for receiving Research Project Mentorship Grant under Scholarship for Higher Education, DST-INSPIRE programme.

## 8. Names of Students with outstanding achievements and placements for higher studies (last four years)

Joint Admission Test 2015 (for entrance to MSc at IITs)

- Mr. Suman Kundu (Rank 3)
- Ms. Sanskriti Das
- Mr. Sudipta Dhar
- Mr. Satyanu Bhadra
- Ms. Preetha Sarkar

### Joint Entrance Screening Test (JEST) 2015 (for integrated Ph D)

Nine UG students have secured ranks within 250 and four PG students secured ranks within top 100 with five of them within the top 50 as mentioned below.

- Mr. Suman Kundu (Rank 2)
- Mr. Sudipta Dhar (Rank 18)
- Mr. Pratik Nandy (Rank 28)
- Ms. Sanskriti Das (Rank 34)
- Mr. Bhaskar Biswas (Rank 20)

### National Eligibility test (NET) in June 2014

- Mr. Arnab Paul
- Ms. Jhuma Ghosh
- Mr. Argha Banerjee
- Mr. Arpan Kundu
- Mr. Sattwik Sarkar)



### Others Remarkable Achievements

- UG3 students Ms. Sanskriti Das and Mr. Suman Kundu got selected to the integrated PhD programmes at Tata Institute of Fundamental Research and National Center for Radio Astronomy. They are also pre-selected for the Inter University Center for Astronomy and Astrophysics PhD programme.
- UG3 students Ms. Sanskriti Das, Mr. Sudipta Dhar and Mr. Suman Kundu got selected in the integrated PhD programme at Harish Chandra Research Institute.
- UG3 student Mr. Aritra Ghosh participated in the prestigious radio astronomy winter school at the National Center for Radio Astronomy and secured the first prize for his project and presentation.
- UG2 student and JBNSTS fellow, Mr. Kaustav Mitra was awarded the third prize for his project work and presentation in the JBNSTS symposium.
- UG1 students Mr. Anwesh Majumder and Mr. Soumya Roy were awarded the prestigious JBNSTS fellowship
- PG2 student Ms. Shilpa Sarkar was selected to work for her Master’s thesis at Indian Institute of Astrophysics (IIA) under the supervision of Prof. Dipankar Banerjee with full institutional scholarship and joined for PhD at Aryabhata Research Institute of observational sciences (ARIES).

### 9. Special Assistance Received by the Department (last four Years)

Scheme	Year of sanction	Duration	Fund Sanctioned
DST-FIST	2014	5 years	Rs. 18500000
Total			Rs. 18500000

### A brief history of the Department

The Department of Physics, established in 1865, was one of the earliest Physics departments in the country, where Acharya Jagadish C. Bose became the first Indian to set up a world-class research laboratory in 1885. Among the students, Prasanta Mahalanabis, Sisir K. Mitra, Amal Kumar Raychaudhuri and Ashok Sen attained universal fame. As part of Presidency University, the department offers BSc and MSc degrees in Physics, with its research currently being concentrated in Astrophysics & Cosmology and in theoretical and experimental Condensed matter Physics. The department is in a rapid re-building phase, with laboratories and computational facilities. There is also plan of working on interdisciplinary subjects like Biology and Earth Science. The department is in the process of consolidating its research activities into an internationally leading programme.

Currently, the department has 14 faculty members including one professor on lien all having strong research background. The department has received DST-FIST grant sanctioned for almost of Rs 2 crore and total individual grant to faculty members for almost 1 crore 38 lakh. An overwhelming majority of our undergraduates have INSPIRE scholarships, and most enter the top MSc/PhD programmes qualifying in All-India competitive examinations like NET and JEST.

## Evaluative Report of the Department: Statistics

1. **Name of the Department :** STATISTICS
2. **Year of establishment :** 1944
3. **Is the Department part of a School/Faculty of the university? :**
  - under the Faculty of Natural and Mathematical Sciences
4. **Names of programmes offered (UG, PG, MPhil, PhD, Integrated Masters; Integrated PhD, DSc, DLitt, etc.) :**
  - BSc (Hons) in Statistics
  - MSc in Statistics
  - GenEd Programme (UG)
5. **Interdisciplinary programmes and departments involved :**  
 Interdisciplinary programmes are offered at different levels:  
 At research level :
  - (i) Research programme between department of Statistics and Physiology and a research paper was published in collaboration with the Department of Physiology.
  - (ii) Research programme between the art of Statistics, PU and The School of Oceanographic Study, JU
6. **Courses in collaboration with other universities, industries, foreign institutions, etc. :**
  - (i) PG Sem 3 students participated in an Internship course directly under MOSPI (2015), and
  - (ii) all of them are now (i.e in Sem 4) doing an Internship programme in ‘PROPHECY SENSORLYTICS’ (2015 - 16) as non-credit academic exercise for self enrichment .
7. **Details of programmes discontinued, if any, with reasons :** N.A.
8. **Examination System: Annual/Semester/Trimester/Choice Based Credit System :** Semester with choice-based credit system
9. **Participation of the department in the courses offered by other departments :**
  - Participated as Course Instructor in Biostatistics of MSc (Biotechnology) in the DBS ( in 2013 and 2014 in the then Department of Biotechnology).
10. **Number of teaching posts sanctioned, filled and actual (Professors/Associate Professors/Asst. Professors/others)**

	Sanctioned	Filled	Actual (including CAS & MPS)
Professor	2	0	
Associate Professors			1 (WBES)
Assistant Professors	13	5	
Others			

**11. Faculty profile with name, qualification, designation, area of specialization, experience and research under guidance :**

Name	Qualification	Designation	Specialization	No. of Years of Experience	No. of PhD/ MPhil students guided for the last 4 years
Biswajit Roy	MSc	Associate Professor (WBES)	Design of Experiments, Operations Research in MSc	32	Nil
Radhakanta Das	MSc, Ph.D	Assistant Professor	Statistical Inference (Parametric, Nonparametric, - Bayesian), Regression Theory	16	Nil
Saurav De	MSc, Ph.D	Assistant Professor	SQC, OR, OT, Reliability in MSc	12	Nil
Arunangshu Biswas	MSc, Ph.D	Assistant Professor	Probability Theory, MCMC	06	Nil
N.V.Krishna Chaitanya Yerroju	MSc(OR)	Assistant Professor	Operations Research, Reliability, Applied Statistics	03	Nil
Atanu Kumar Ghosh	MSc	Assistant Professor	Statistical Inference, Multivariate Analysis, Statistical Computing	1 year running	Nil

**12. List of senior Visiting Fellows, adjunct faculty, emeritus professors :**

- i) Dr. Sisir Kumar Samanta, Associate Professor of Statistics, Kalyani University - during 2011 to 2014.
- ii) Dr. Avijit Mandal, Research Associate, ISI, Kolkata - in 2013.
- iii) Dr. Radhakanta Das, Assistant Professor of Statistics, Burdwan University - during 2011 to 2012.
- iv) Dr. Shirsendu Mukherjee, Assistant Professor of Statistics, Behala College, Kolkata.
- v) Dr. Gaur Mohan Saha, Retd. Professor of Statistics, ISI, Kolkata.

**13. Percentage of classes taken by temporary faculty – programme-wise information :**

- i) UG 10%
- ii) PG 15%

**14. Programme-wise Student Teacher Ratio :**

- i) UG 60:6 (Student :Teacher)
- ii) PG 40:6 (Student :Teacher)

**15. Number of academic support staff (technical) and administrative staff: sanctioned, filled and actual**

- Administrative staff (filled): Three Peons (one Senior and two Junior) & One Secretarial Staff

## Presidency University

- 16. Research thrust areas as recognized by major funding agencies :** The thrust area of the research works w.r.t. the faculty members are Clinical Trials, Stochastic Process : Probability Theory, Markov Chain Monte Carlo (MCMC) techniques, Nonparametric Inference, Missing Data Analysis, EM Algorithm etc.
- 17. Number of faculty with ongoing projects from a) national b) international funding agencies and c) Total grants received. Give the names of the funding agencies, project title and grants received project-wise.** Nil
- 18. Inter-institutional collaborative projects and associated grants received**
- a) National collaboration : (Without any grant)
- (i) Research paper published in collaboration with the Department of Physiology, Kalyani University, Kolkata.
  - (ii) Research paper published in collaboration with the Department of Statistics, Calcutta University, Kolkata
  - (iii) Research papers published and communicated in collaboration with Indian Statistical Institute, Kolkata.
  - (iv) Research paper communicated in collaboration with the Department of Statistics, Gauhati University, Assam.
- b) International collaboration : Nil
- 19. Departmental projects funded by DST-FIST; UGC-SAP/CAS, DPE; DBT, ICSSR, AICTE, etc.; total grants received.:** A proposal has recently been sent to RUSA to build a Big-Data Lab in collaboration with the Depts of Economics and Mathematics
- 20. Research facility / centre with :** N. A.
- state recognition
  - national recognition : same as in 19
  - international recognition
- 21. Special research laboratories sponsored by / created by industry or corporate bodies :** Nil
- 22. Publications:** See Annexure 4
- Number of papers published in peer reviewed journals (national / international) 10
  - Monographs
  - Chapters in Books
  - Edited Books
  - Books with ISBN with details of publishers
  - Number listed in International Database (For e.g. Web of Science, Scopus, Humanities International Complete, Dare Database - International Social Sciences Directory, EBSCO host, etc.)
  - Citation Index–range / average
  - SNIP
  - SJR
  - Impact Factor – range / average
  - h-index

**23. Details of patents and income generated :** N.A.

**24. Areas of consultancy and income generated :** N.A.

**25. Faculty selected nationally / internationally to visit other laboratories / institutions /industries in India and abroad :**

Biswajit Roy acted as a Resource Person in Refresher Courses in CU (organized by Academic Staff College, CU) and also acted as the same in a Workshop in ISI, Kolkata.

**26. Faculty serving in**

a) National committees: None

b) International committees: None

c) Editorial Boards: None

d) Any other (please specify):

i) Dr. Radhakanta Das- Served as reviewer for one national journal and one international journal, Member of Indian Bayesian Society, Calcutta Statistical Association, Indian Society for Probability and Statistics

ii) Dr. Saurav De- served as reviewer for two national journals, Lifetime member of Calcutta Statistical Association.

iii) Biswajit Roy has been acting as an Assistant Coordinator, IGNOU since 1992

**27. Faculty recharging strategies (UGC, ASC, Refresher / orientation programmes, workshops, training programmes and similar programmes).**

- Department always encourages its faculty members to attend such academically recharging programmes. As a result, two of its faculty members participated in the Refresher Course arranged by the ASC, Calcutta University during 02 - 21 st July, 2012. Saurav De is now attending an Orientation Programme under Jadavpur University, during Feb 17 to March 15, 2016.

**28. Student projects**

- percentage of students who have done in-house projects including inter-departmental projects:

75%. The project work is included in their PG Semester 4 course curriculum.

**N.B. :** All PG 1st year students do individual projects as applications of Statistics using R-packages.

- percentage of students doing projects in collaboration with other universities/industry / institute:

25%. Some students pursued their MSc project dissertation in collaboration with Dept. of Statistics, CU and in ISI, Kolkata

**29. Awards / recognitions received at the national and international level by**

- Faculty: Two members received PhD in the years 2014 and 2015, respectively.
- Doctoral / post doctoral fellows: Nil
- Students: Many UG and PG graduates have been successfully enrolled in PhD programmes in different Universities and Institutes in India and abroad.

**30. Seminars/ Conferences/Workshops organized and the source of funding (national/international) with details of outstanding participants, if any.**

Detailed in Annexure

## Presidency University

### 31. Code of ethics for research followed by the departments :

Since the department has not yet started the PhD programme, so the formalisation of such an Ethics Committee is yet to occur.

The following points are adhered to for publication and research:

- (i) Prohibition of plagiarism
- (ii) Encouraging independent and innovative work
- (iii) Proper and detailed referencing of any result, idea or approach taken from previous literature
- (iv) Clear mention of data courtesy while collecting real data from secondary sources
- (v) Maintaining confidentiality of primary data

### 32. Student profile programme-wise:

Year	Name of the Programme (refer to question no. 4)	Applications received	Selected		Pass percentage	
			Male	Female	Male	Female
2013	UG	893	17	5	100%	100%
	PG	108	7	6	100%	100%
2014	UG	786	18	5	100%	100%
	PG	150	14	6	100%	100%
2015	UG	790	19	5	100%	100%
	PG	160	9	13	100%	100%

### 33. Diversity of students :

Name of the Programme (refer to question no. 4)	% of students students from the same university	% of students from other universities within the State	% of from universities outside the State	students from other countries
UG	-----	-----	-----	N.A.
PG	25%	75%	0	N.A.

### 34. How many students have cleared Civil Services and Defense Services examinations, NET, SET, GATE and other competitive examinations? Give details category-wise.

Indian Statistical Service (ISS)	01
UGC-CSIR National Eligibility Test (NET)	1
Junior Research Fellow (Indian Statistical Institute)	2
Mtech. in Quality, Reliability and Operations Research (ISI)	01
TOEFL	More than 05

**35. Student progression (provide List in annexure)**

Student progression	Percentage against enrolled
UG to PG	Slightly less than 100
PG to MPhil	Not known specifically (M.Phil done elsewhere)
PG to PhD	50 (on an average)
PhD to Post-Doctoral	N.A. during the tenure 2011 - 15
<b>Employed</b>	
• Campus selection	20 (approx.)
• Other than campus recruitment	30 (approx.)
Entrepreneurs	Not known specifically

**36. Diversity of staff**

Percentage of faculty who are graduates	
of the same university	50
from other universities within the State	35
from universities from other States	15
from universities outside the country	0

**37. Number of faculty who were awarded MPhil, PhD, DSc and DLitt during the assessment period : PhD 2 ( two)**

Saurav De, PhD registration under Calcutta University

Arunangshu Biswas, PhD registration under ISI, Kolkata

**38. Present details of departmental infrastructural facilities with regard to**

- Library : Department has an old Seminar Library containing approximately 600 books. In addition, there are a few issues of renowned journals like Biometrika, Annals of Mathematical Statistics, CSA Bulletin, Sankhya etc. and informative Statistical Abstracts whose subscriptions (in hard copies) had been stopped years ago. There is, however, a high demand for such journals and we hope to improve and enrich our collection with many more current books relevant to the modern curriculum.
- Internet facilities for staff and students : Satisfactory
- Total number of Class rooms : 5
- Class rooms with ICT facility : 1 (equipped with ceiling-mount projector and an Interactive Board (Panasonic Board)
- Students' laboratories : 2 - 1 (for UG) + 1 (for PG)
- Research laboratories : Yet to establish

**39. List of doctoral, post-doctoral students and Research Associates**

- from the host institution/university : N.A.
- from other institutions/universities : N.A.

## Presidency University

**40. Number of postgraduate students getting financial assistance from the university.** Nil

**41. Was any need assessment exercise undertaken before the development of new programme(s)?** If so, highlight the methodology.

- Two Syllabus Workshops were held to frame UG and PG Syllabi respectively in 2011 before the commencement of the University Academic Programmes. Then, in 2013, the existing syllabi were thoroughly revisited and modified by the Departmental Academic Committee.

**42. Does the department obtain feedback from**

a. faculty on curriculum as well as teaching-learning-evaluation? If yes, how does the department utilize the feedback?

- Yes. As soon as some feedback, comments or proposals come from the faculty side, the department raises those issues collectively in its DAC meeting, and considers every issue from an affirmative view point of view, so that some productive or constructive solutions emerge and which can be executed in the near future.

b. students on staff, curriculum and teaching-learning-evaluation and how does the department utilize the feedback?

- Yes. Besides a Survey conducted centrally by the Presidency University on the feedback from Students, the Department constantly monitors the curriculum and teaching-learning-evaluation process, based on students' feedback through regular meetings of the Teacher-Student Committee.

c. alumni and employers on the programmes offered and how does the department utilize the feedback?

- Any suggestion obtained from the alumni in their occasional visits is seriously considered by the department and where feasible, is implemented. Feedback of the employers is usually communicated via some official meetings or through University Circulars. We try our level best to abide by the instructions.

**43. List the distinguished alumni of the department (maximum 10) :**

- i) Professor Atindra Mohan Gun (1949)
- ii) Professor Bhagabat Das Gupta (1950)
- iii) Professor Milan Kumar Gupta (1950)
- iv) Professor Soutir Kishore Chatterjee (1952)
- v) Professor Pranab Kumar Sen (1953)
- vi) Professor Jayanta Kumar Ghosh (1954)
- vii) Professor Shyama Prasad Mukherjee (1956)
- viii) Professor Arijit Chaudhuri (1957)
- ix) Professor Malay Ghosh (1960)
- x) Professor Sujit Kumar Basu (1961)
- xi) Professor Rahul Mukherjee (1972)

**44. Give details of student enrichment programmes (special lectures / workshops / seminar) involving external experts.**



**45. List the teaching methods adopted by the faculty for different programmes.**

- (i) Chalk and Talk
- (ii) Presentation with electronic slides.
- (iii) Providing study materials ( both in Soft and hard forms) after regular class teaching.

**46. How does the department ensure that programme objectives are constantly met and learning outcomes are monitored?**

- Mid-semester examinations, Assignments, Projects are used to ensure this. The project work is included in their PG Semester 4 Course Curriculum.

Moreover the excellence or expertise of the PG 1st year students in their computing skill is evaluated by individual or small-group wise projects on applications of Statistics using R-packages.

**47. Highlight the participation of students and faculty in extension activities.**

- Faculty participation in University general responsibilities
- NSS activity for students

**48. Give details of “beyond syllabus scholarly activities” of the department.**

- Seminar activity
- Short-term projects
- Co-curricular activities
- Students’ governance through students’ union
- games and sports

**49. State whether the programme/ department is accredited/ graded by other agencies? If yes, give details.**  
N.A.

**50. Briefly highlight the contributions of the department in generating new knowledge, basic or applied.**

Usually our students try to add something new and innovative ideas in their academic project works, both from basic theoretical and applied viewpoints. For instance, they have studied theory of Bayesian estimation on shifted exponential distribution with truncated normal as prior, they have analysed the score data of a batsman through different GLMs and their relative efficiencies among them.

**Historical perspective:** The Department of Statistics, as a part of Presidency College affiliated to the University of Calcutta, started its journey to teach undergraduate Statistics in 1944 under the able guidance of Professor P.C.Mahalanobis. Later, the teaching faculty was strengthened with a number of outstanding and dedicated teachers, some of whom have achieved tremendous fame in India and abroad. The department has produced high profile statisticians in the field of education and research and many of them have received international recognition and have put India on the Statistical map of the world. Many Presidencians from this department have been successfully handling various challenging jobs in various prestigious national and international corporate sectors and the Government sector as well. After Presidency College achieved the status of University in 2010, the department started two-year post-graduate (PG) semester-based programme along with existing three-year undergraduate (UG) semester-based programme in Statistics. Recently, a team of professors from the University of Malaya, Malaysia visited our department for possible collaborative study and research in future. The department hopes, in the coming years, to strengthen its current offerings and its faculty strength to enable us to offer a world-class PhD programme at Presidency.

**51. Detail five major Strengths, Weaknesses, Opportunities and Challenges (SWOC) of the department.**

**Strengths :** (i) Young faculty members, (ii) Friendly and co-operative working and teaching-learning atmosphere, (iii) Excellent relations between faculty and office-staff members, (iv) Meritorious,co-operative and sincere students, (v) maximum utilization of the teacher-student contact hours.

**Weakness :** (i) Inadequate number of faculty members with respect to UG & PG teaching loads, (ii) Insufficient number of computers for UG & PG Laboratories, (iii) Inadequate space to conduct multiple classes simultaneously, (iv) non availability of licensed version of softwares like C++ and Minitab which are included in the syllabus. (v) Inadequate infrastructure for initiation of PhD programme.

**Opportunities :** (i) Full availability of Internet facility, (ii) Procurement of different costly and rare foreign books for advanced teaching-learning and research, (iii) Accessibility of many e-books and e-journals, (iv) comfort to work in well-established infrastructure with Central Air-Conditioning System, (iv) Availability of Secretarial Staff member to assist in various official work, (v) Financial assistance for pursuing personal research work of the faculty members through FRPDF grant.

**Challenges :** (i) To maintain as well as to upgrade the academic excellence with present inadequate number of faculty members, (ii) to initiate a full-fledged Ph.D programme with existing scarcity of faculty and space, (iii) to bring sponsorship for projects and research as the department is a newly-born PG department (since 2011), (iv) Upgradation of departmental library and laboratory. (v) Conducting several student enrichment programmes on regular basis.

**52. Future plans of the department.**

- (i) To maintain a high teaching standard
- (ii) To provide full computer facility to each student with respect to the availability of PC and the syllabus topics viz. MsExcel, MINITAB and C++. [ R-package is already available as an open source.]
- (iii) To have full faculty strength and start PhD programme under different reputed funding agencies. Further starting Research Projects funded by appropriate agencies.

## Annexures 1

### List of Seminars and Conferences Organized in last three years

Sl No.	Date/Month	Topic	Source of Funding	Status (Local /State/ national level) (student enrichment programme)
1	6-7 February 2015	National Seminar on Probability and Statistics : Theory and Applications	Presidency University	National
2	07.01.15	Prof. Amal Bhatt (Presi 1979-82)'s Talk	Presidency University	Student enrichment programme
3	16.09.14	Prof. Manas Chatterjee (Presi 1955)'s Talk	Presidency University	Student enrichment programme
4	14.08.2014	Dr.Aloka G Chakravarty's talk on Biostatistics	Presidency University	Student enrichment programme
5	05. 09. 2012	Felicitation of Professors Goon, Gupta and Dasgupta	PresiStat Reunion Fund	Local
6	30. 12. 2013	Advanced Survey Sampling	Presidency University and IAPQR	National
7	02.01.2013	Multivariate Analysis & Its Applications: Dedicated to the Memory of Prof. Anil Kumar Bhattacharyya	Presidency University, Kolkata and IAPQR	International
8	04.01.2013	Different Prospects of Statistics	Presidency University, Kolkata	International
9	11.01.2016	Outreach Programme of CMI	Presidency University, Kolkata	National

## Annexure-2

### Seminar workshops attended by teachers of the Department in last three years (chronologically)

Sl. No.	Name of the Teacher	Title of Seminar	Date	Organized by	Status (National / International)	Role as Resource person / Invited Speaker
1	Sri Biswajit Roy, R.K. Das, S. De, A. Biswas, K. Chaitanya	Advanced Survey Sampling	December 31, 2013	IAPQR, CSA and Presidency University, Kolkata	International Seminar	Attended
2	Sri Biswajit Roy, R.K. Das, S. De, A. Biswas, K. Chaitanya	Probability and Statistics: Theory and Applications	February 6-7, 2015	Presidency University, Kolkata	National Seminar	Attended

**Presidency University**

Sl. No.	Name of the Teacher	Title of Seminar	Date	Organized by	Status (National / International)	Role as Resource person Invited Speaker
3	Sri Biswajit Roy, S. De, A. Biswas, K. Chaitanya	Felicitation of Professors Goon, Gupta and Dasgupta	05. 9.2012	PresiStat Reunion Fund	Local	Attended
4	Sri Biswajit Roy, S. De, A. Biswas, K. Chaitanya	Multivariate Analysis & Its Applications: Dedicated to the Memory of Prof. Anil Kumar Bhattacharyya	02.01.2013	Presidency University, Kolkata and IAPQR	International	Attended
5	Sri Biswajit Roy, S. De, A. Biswas, K. Chaitanya	Different Prospects of Statistics	04.01.2013	Presidency University, Kolkata	International	Attended
6	Sri Biswajit Roy, R.K. Das, S. De, A. Biswas, K. Chaitanya	Outreach Programme of CMI	11.01.2016	Presidency University, Kolkata	National	Attended
7	Dr.Arunangshu Biswas	Lectures in Probability and Stochastic Processes (LPS)	December 2011			Paper presented
8	Dr.Arunangshu Biswas	Contemporary Issues in Applied Statistics	February 2012	Indian Statistical Institute, Kolkata		Paper presented
9	Dr.Arunangshu Biswas	Eighth International Triennial Calcutta Symposium	December 2012	Calcutta University and Calcutta Statistical Association	International	Paper presented
10	Dr.Arunangshu Biswas	3rd International Conference on Advanced Data Analysis, Business Analytics and Intelligence	April 2013	IIM Ahmedabad	International	Paper presented
11	Dr.Arunangshu Biswas	Workshop on Inference in Stochastic Process	February 2015	University of Pune	National	Attended
12	Dr.Arunangshu Biswas	Probability and Statistics: Theory and Applications	February 6-7, 2015	Presidency University, Kolkata	National Seminar	Attended
13	Dr.Arunangshu Biswas	Ninth International Triennial Calcutta Symposium	December 2015	Calcutta University and Calcutta Statistical Association	International	Paper presented
14	Dr. Radhakanta Das	Applications of Statistics in Industry, Social & Bio-medical Sciences	March 03, 2012	University of Burdwan	National Seminar	Convener

Sl. No.	Name of the Teacher	Title of Seminar	Date	Organized by	Status (National / International)	Role as Resource person / Invited Speaker
15	Dr. Radhakanta Das	Young Statistician Meet – An International Conference	December 24-25, 2012	University of Burdwan	International Seminar	Paper Presented
16	Dr. Radhakanta Das	International Triennial Calcutta Symposium on Probability and Statistics	December 27-30, 2012	CSA and Dept of Statistics, University of Calcutta	International Seminar	Paper Presented
17	Dr. Radhakanta Das	Statistical Methods for Bioinformatics	December 12-14, 2013	IISc, Bangalore, ISI and SAMSI, USA	International Workshop	Participated
18	Dr. Radhakanta Das	Advances in Statistics: Techniques and Applications	December 19-20, 2013	CSA and Asutosh College, Kolkata	National Seminar	Attended
19	Dr. Radhakanta Das	Advanced Survey Sampling	December 31, 2013	IAPQR, CSA and Presidency University, Kolkata	International Seminar	Attended
20	Dr. Radhakanta Das	Short Course on Bayesian Statistical Modelling	January 27-31, 2014	DST-CIMS & Dept of Stat, BHU, U.P.	National Workshop	Participated
21	Dr. Radhakanta Das	On Masters course in Big data analytics: A Brainstorming Session	August 07, 2014	BPS HR, Tata Consultancy Services Limited	National Conference	Participated
22	Dr. Radhakanta Das	Probability and Statistics: Theory and Applications	February 6-7, 2015	Presidency University, Kolkata	National Seminar	Convener
23	Dr. Radhakanta Das	Environmental Statistics	March 2-4, 2015	SAMSI, USA and ISI, Kolkata	International Workshop	Participated
24	Dr. Radhakanta Das	Statistics and Related Areas For Equity, Sustainability and Development	November 28-30, 2015	Lucknow University, U.P.	International Seminar	Paper Presented
25	Dr. Saurav De	Applications of Statistics in Industry, Social & Biomedical Sciences	December 03, 2012	University of Burdwan	National Seminar	Attended
26	Dr. Saurav De	International Triennial Calcutta Symposium on Probability and Statistics	December 27-30, 2012	CSA and Dept of Statistics, University of Calcutta	International Seminar	Attended

Sl. No.	Name of the Teacher	Title of Seminar	Date	Organized by	Status (National / International)	Role as Resource person Invited Speaker
27	Dr. Saurav De	Advances in Statistics: Techniques and Applications	December 19-20, 2013	CSA and Asutosh College, Kolkata	National Seminar	Attended
28	Dr. Saurav De	Advanced Survey Sampling	December 31, 2013	IAPQR, CSA and Presidency University, Kolkata	International Seminar	Attended
29	Dr. Saurav De	Probability and Statistics: Theory and Applications	February 6-7, 2015	Presidency University, Kolkata	National Seminar	Attended
30	Dr. Saurav De	International Triennial Calcutta Symposium on Probability and Statistics	December 28-31, 2015	CSA and Dept of Statistics, University of Calcutta	International Seminar	Attended
31	Atanu Kumar Ghosh	Reliability Theory, Survival Analysis and Related Topics	January, 2013	SQC & OR Unit, ISI, Kolkata	National Seminar	Attended
32	Atanu Kumar Ghosh	Reliability Theory, Survival Analysis and Related Topics	February 19-21, 2014	SQC & OR Unit, ISI, Kolkata	National Seminar	Attended
33	Atanu Kumar Ghosh	School and Workshop on Classification & Regression Trees	March 10-26, 2014	IMS, NUS, Singapore	International Workshop	Participated
34	Atanu Kumar Ghosh	International Triennial Calcutta Symposium on Probability and Statistics	December 28-31, 2015	CSA and Dept of Statistics, University of Calcutta	International Seminar	Paper presented
35	Y.N.V. Krishna Chaitanya	Advanced Survey Sampling	December 31, 2013	IAPQR, CSA and Presidency University, Kolkata	International Seminar	Attended
36	Y.N.V. Krishna Chaitanya	Probability and Statistics: Theory and Applications	February 6-7, 2015	Presidency University, Kolkata	National Seminar	Attended

## Annexure 3

## List of Publications in Journals ( peer-reviewed only), Books, Monographs, 2013

1. Sahu, S., **Roy, B** and Moitra, S. (2013) : Assessment of the lung function status of the goldsmiths working in an unorganized sector of India, **Lung India**, v.30, Issue 1, pp. 33 – 37
2. Sahu, S., Moitra, S., Maity, S., Pandit, A. K. and **Roy, B** (2013) : A Comparative Ergonomics Postural Assessment of Potters and Sculptors in the Unorganized Sector in West Bengal, India, **International Journal of Occupational Safety and Ergonomics (JOSE)**, v. 19, No. 3, pp.455–462
3. Bandyopadhyay, U. and **De, S.** (2013) : Multi-Treatment Covariate-Adjusted Adaptive Design Under Informative Censoring, **Statistics**, Vol 47, Issue 6, pp. 1285-1304
4. **Das, K.** (2013) : Statistical Challenges in the Analysis of Dynamic Traits : Implications for Pharmacogenomic Clinics, **Advanced Drug Delivery Reviews**, Vol 65, Issue 7, 973 - 979; IF : 13.5
5. **Das, K.** , Li, J. , Fu, G., Li, R. and Wu, R. (2013) : Dynamic Semiparametric Bayesian Model for Genetic Mapping, **Statistics in Medicine**, Vol 32, Issue 3, 509 - 523; IF : 2.04
6. **Das, K.** , Li, J. ,Sengupta, S. and Wu, R. (2013) : A Semiparametric Bayesian Model for Bivariate Sparse Longitudinal Data, **Statistics in Medicine**, Vol 32, Issue22, 3899 - 3910; IF : 2.04
7. **Das, K.** and Daniels, M. (2013) : A Semiparametric Approach to Simultaneous Covariate Estimation for Bivariate Sparse Longitudinal Data, **Biometrics**; IF : 1.41
8. Basak, G. and **Biswas, A.** : Process Convergence of Self Normalized sums when the random variables come from the domain of attraction of stable distributions; **Proceedings of the Indian Academy of Sciences (Math. Sci.)**, 123, 1, pp. 85 – 100; 2015
9. **Ghosh, A. K.** and Chakraborty, A. (2015): Use of EM Algorithm for data reduction under sparsity assumption, **Computational Statistics**, (communicated).
10. Nath, D.C., Verma, V. and **Das, R.** (2015): Representativeness of Ranked Set sampling in Estimation of Fertility Measures, **Computational Statistics and Data Analysis** (communicated).
11. **Das, R.**, Verma, V. and Nath, D.C.(2015): A Bayesian Approach to Estimate Population Proportion under Ranked Set Sampling. **Journal of Statistical Planning and Inference.** (Communicated)
12. **Biswas, A.** (2015) :Investigation on the trace elemental profile of sewage workers in Kolkata, an Indian megacity, **Journal of Public Health Research**; volume 4, p. 473
13. **Biswas, A.** (2015) : An attempt to search the health status of garage workers - A neglected part in India, **International Journal of Advanced Research**, Volume 3, Issue 7, 1466-1471
14. Deemat Mathew and **Krishna Chaitanya** (2015) : Proportional reversed hazards model for discrete data, **Proceedings of the 60th ISI World Statistics Congress, 26-31 July 2015, Rio de Janeiro, Brazil(p.1003-1008), Published by the International Statistical Institute, The Hague, The Netherlands, December 2015.**

## 2016

15. Bandyopadhyay, U. and **Das, R.** (2016): A Comparison Between Two Treatments in a Clinical Trial with an Ethical Allocation Design. **Journal of Statistical Methodology** (communicated)
16. **Das, R.** (2016): A Distribution-free Test for a Two-Sample Location Problem in a Two-stage Ethical Allocation Design. **Journal of Nonparametric Statistics.** (communicated)

**Annexure 4**

**Membership**

1. Biswajit Roy is a Life member of
  - i) Indian Statistical Institute; ii) Calcutta Statistical Association iii) The Asiatic Society.
2. Saurav De is a Life member of
  - i) Calcutta Statistical Association
3. Radhakanta Das is a life member of
  - i) Calcutta Statistical Association ; ii) Bayesian Statistical Society ; iii) Indian Society for Probability and Statistics







**Presidency  
University**

86/1 College Street  
Kolkata 700073

P +91 33 2241 2738

F +91 33 2257 2444