



# 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-1  
Institutional Data Analysis**



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## 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 Post-graduate students graduated in June 2013. We began our PhD program 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 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 5 years.

While upgrading our teaching and research programs 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 restoration of our 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, 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 Sciences and Arts.

We look forward to a positive response from NAAC.

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



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## **EXECUTIVE SUMMARY**

**CRITERION I: CURRICULAR ASPECTS**

Presidency University curricula is 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 Hindoo/ Presidency College, is still relevant for the 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 level is need-based, keeping in mind the societal demand, research prospects, NET requirements, and employability. 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 10 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/ attempt 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, in 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 on-line 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, for merit-cum-means scholarships and free studentships, for 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 Ph.D. 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 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 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 a very significant step in the ultimate 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 leads 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 fulfill 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 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 fora 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 is most proud 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 Rajarhat 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 Women's 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 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 the Arts.

## CRITERION V: STUDENT SUPPORT AND PROGRESSION

The 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 other forms of counsel in order to develop as well rounded human beings who are equipped for their life 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 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 SPICMACAY. The University believes that students must learn to engage with the world outside of the 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 3 overseas students (2 in the humanities faculty and 1 in Science faculty).

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.

### 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, earth-environmental science, and its unique socio-cultural and linguistic characteristics.

The Presidency University Act provides for an advisory body, the Presidency Mentor Group, 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 Board of Studies, the departmental-level Ph.D. Committee, 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 exam 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 distinguish chair professorship 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 taught programs 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 sub-continent. 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 post-graduate and Ph.D program 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 program. The GenEd program 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 programs with foreign universities through which selected students can spend a semester abroad. In order to encourage entrepreneurship, the University has launched an entrepreneurship development program for aspiring students. The University has given research fellowships to registered Ph.D program right from the inception of the program.

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 the Himalayan Centre of Presidency University at Dow Hill, North Bengal. The new campuses will focus on setting up advanced multi-disciplinary post-graduate centers and research programs. The Himalayan center 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 centers 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 centers 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 programs. 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 center 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. AmartyaSen, 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 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 GenEdcourses 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 government;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 an 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 Himalyan 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.0.66crore 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. Though 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 Ph.D. 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 ambiance.

## 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 Dept 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 Dept 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 Ph.D. 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 test. 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 Hons 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 22crores.
- 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 Absorption Spectroscopy (AAS), XRD, HPLC etc. Recently a 400 MHz and FT IR spectrometer has 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 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 program 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 talk 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.
- Technical positions to run and maintain high-end equipments.
- Administrative staff, seminar librarian and non-teaching staff, and lab. attendants'.
- 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, NMR spectra, X-ray crystallography etc and soft-ware, computational labs are necessary to improve research facilities.
- 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 Rajarhat 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 interuniversity, 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 post-doctoral 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 office 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 program students in different semesters spread of the last three- four years. Facilities for credit transfers for students visiting foreign universities under exchange programs, 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 programs 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 staffs 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 staffs 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 4 staffs to manage the entire process. 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 feels 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

With this underlying philosophy, the statute of the University includes the Office of the Dean of Students that reports directly to the Office of 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, Sport 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 transferrable skills and upto 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 is monetary.
- Finances has 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 Chakraborty**  
**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<br>R:               | 9836318218 | O:03324412738<br>R:  | vc@presiuniv.ac.in                            |
| Pro Vice Chancellor (s)         | N/A                       |                                    |            |                      |                                               |
| Registrar                       | Dr. Debajyoti Konar       | O: 03322410297<br>R:               | 9830250658 | O: 03322410297<br>R: | registrar@presiuniv.ac.in                     |
| Steering Committee Co-ordinator | Prof. Joydip Mukhopadhyay | O: 033-22192636<br>R: 033-24622438 | 9432233438 |                      | jm.geol@presiuniv.ac.in<br>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 | Rajarhat, New Town Kolkata (Urban) Kurseong (Hilly Area) | 10 acre<br>2.5 acre                                    | Building Plan finalized<br>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 Ph.D.           |        |
| PG                 | 18                                    | Certificate                |        |
| Integrated Masters | Diploma                               |                            |        |
| M.Phil.            |                                       | PG Diploma                 |        |
| Ph.D.              | 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* |           |        |                     |        |                     |        |       |
| Ph.D.                  | 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  |           |        |                     |        |                     |        |       |
| Ph.D.                  |           |        |                     |        |                     |        |       |
| 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 <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 Pakrashi, 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.

At the beginning of each academic session the Vice Chancellor addresses the beginners and explains the goals and objectives of the college. 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 from 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 Post-graduate 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.

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At the Ph.D. 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. 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 seminar and conference 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.

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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 Dept 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 Dept 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 Dept 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. The

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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.

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A number of 'SheelaKanoria 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 CalcuttansScholarships'(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/<br>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 Hons 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 program. 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

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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 program.
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.

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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.

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### 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* |           |          |                     |          |                     |           |            |
| Ph.D.                  | 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  |           |          |                     |          |                     |           |            |
| Ph.D.                  |           |          |                     |          |                     |           |            |
| 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 field of Inter Cultural 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-)                  |

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### 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

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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 Ph.D. evaluation process?**

Since Presidency is a very young university, we have just inducted our first batch of Ph.D. scholars (in mid 2014). The Ph.D. 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 Ph.D. 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

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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.

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

University has a very well defined procedure for purchase of equipments etc from research fund. 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 General 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 programm: 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

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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 professor have joined the university. Besides two chair professor—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<br>(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.BimalJalan                                              | 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.  | SmtAmla 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.  | SwapanDasgupta, 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.GayatriChakravortySpivak                              | 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<br>(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

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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 Center 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: Research equipments 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

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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 Sahais 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

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- 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 of 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, Grantham 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. Ckakovorty, 2006-: Member, National Council of Education, Bengal, Kolkata
- Swapan K. Ckakovorty, 2003-: Member, International Shakespeare Association
- Swapan K. Ckakovorty, 2001- Member, Jury Board of Ananda Literary Award (in Bengali Literature), Kolkata
- Swapan K. Ckakovorty, 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.BarnaliChakrabarti, 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 Ph.D. scholars guided per faculty during the last four years. Does the university participate in Shodhganga by depositing the Ph.D. 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 (Turnitin) 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.

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### 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.

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- 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 program, corruption and social sector spendings, etc.
- Sociology Dept. organised special camp on "health awareness" from 9-16th December, 2014. The students of sociology dept. 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.

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### **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)<br>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,<br>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<br>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.<br>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,<br>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.<br>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,<br>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<br>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,<br>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.<br>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,<br>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.<br>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.<br>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                       | Archeancraton-margin..... supercontinets              | 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 Chakraborty | Geology    | 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          | Geology    | 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      | Physics    | 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               | Physics    | 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                 | Physics    | 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          | Physics    | 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               | Physics    | 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             | Geology    | 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           | Geology    | 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.....<br>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 .....<br>Tumorigenesis                      | DBT<br>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.....<br>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 .....<br>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 .....<br>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.....<br>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 .....<br>Effective mutagenesis tool | DST                 | Dr. Atreyi Chatterjee    | DBS        | YSS/2014/000397                                 | 5,50,000          | 21,16,000        | 26,66,000         |
| 10                       | Molecular mechanism .....<br>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.....<br>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 .....<br>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 Chakra borty     | DBS        | F.30-78/2014 (BSR) dt 05.10.15                | –                 | 6,00,000          | 6,00,000          |
| 6                                                             | UGC-BSR                                               | UGC               | Paramita Chaudhruri 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>–</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 University 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.

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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.
- Transportaion 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.

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- 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

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- 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://presuniiv.ac.in/web/library/openaccesshome.php>

**Research Guides:**

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

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- **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) |                                     |                                           |

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### 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         | Programming                                                                |
| 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

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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)

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- ▶ 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>
  - o 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) for

### 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 do 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.

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### 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, Sport 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 Moookerjee, 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

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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 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 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.

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 alum) 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 program 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. GayatriChakravortySpivak of Columbia University, Prof. S. R. Kulkarni of California Institute of Technology, Prof. InderVerma 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 SPICMACAY 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 BelurVidyamandir, 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 program 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

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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 Level, (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 France 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 Women's 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 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/Ph.D./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

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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 but needy students at both the undergraduate and post graduate level 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 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 Ph.D 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 program. 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 Controller of Examination Department and the Registrar's Office 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.

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***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 is 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 Women's Hospital 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 reflect that, our institutional collaborations reflect that and our students reflect that. Expose 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 borne

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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 Student 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.

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### **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 overlook the overall development of students.

- (1) A GenED Cell has been formed in 2015 which overlooks 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. Especial 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 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 Ph.D.        | 26.4%       | Ph.D. 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 Ph.D./ D.Litt./D.Sc. theses submitted/ accepted/ resubmitted/ rejected in the last four years.

The University initiated Ph.D programme in the year 2013-2014. As such no Ph.D 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

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### 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 post-graduate 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 programs annually with the major ones being Founder's Day celebration, convocation and orientation ceremonies. Some of the major thematic programs 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 fresher's welcome program 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 program 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 programs. 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 program 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 the floods of 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

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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. faculty 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. The students council 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 programs 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. It has raised funds to donate to victims of the Nepal Earthquake and the floods of South Bengal flood victims. It also donated a sum to Ms.Ruchira Gupta to help her on her work against child sex trafficking. 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 Material 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

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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.

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### 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

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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**

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- **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.

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### 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 SwapanChakravarty 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 University’s 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.

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- 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 Rajarhat 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 Ph.D. 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

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that very soon the 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 Mediciam (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 programs 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

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### **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 Ph.D. 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 program 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.

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- **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 programs 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 programs and research schools in its third campus at Dow Hill, Kurseong. These include a postgraduate and research program in Social Anthropology and Borderland Studies, Astrophysics, and a research centre in Himalayan Geology and Biodiversity. These programs 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 program 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 Credit Based Choice 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 Notifications u/s 2f, 12B
2. UGC Notification : Educational Institution of National Eminence
3. Presidency University Act 2010 (Title page)
4. Presidency University Amendment Act 2013 (Title Page)
5. WB HE Notification for Transformation from Presidency College to Presidency University
6. Income-Expenditure Statements for last two years
7. MoU documents

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.

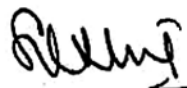
It is also hereby confirmed that Presidency University, Kolkata (West Bengal) is an educational Institution of National eminence and is recommended for granting approval of Income Tax exemption under Section 80G(2)(a)(iiif) of the Income Tax Act 1961.

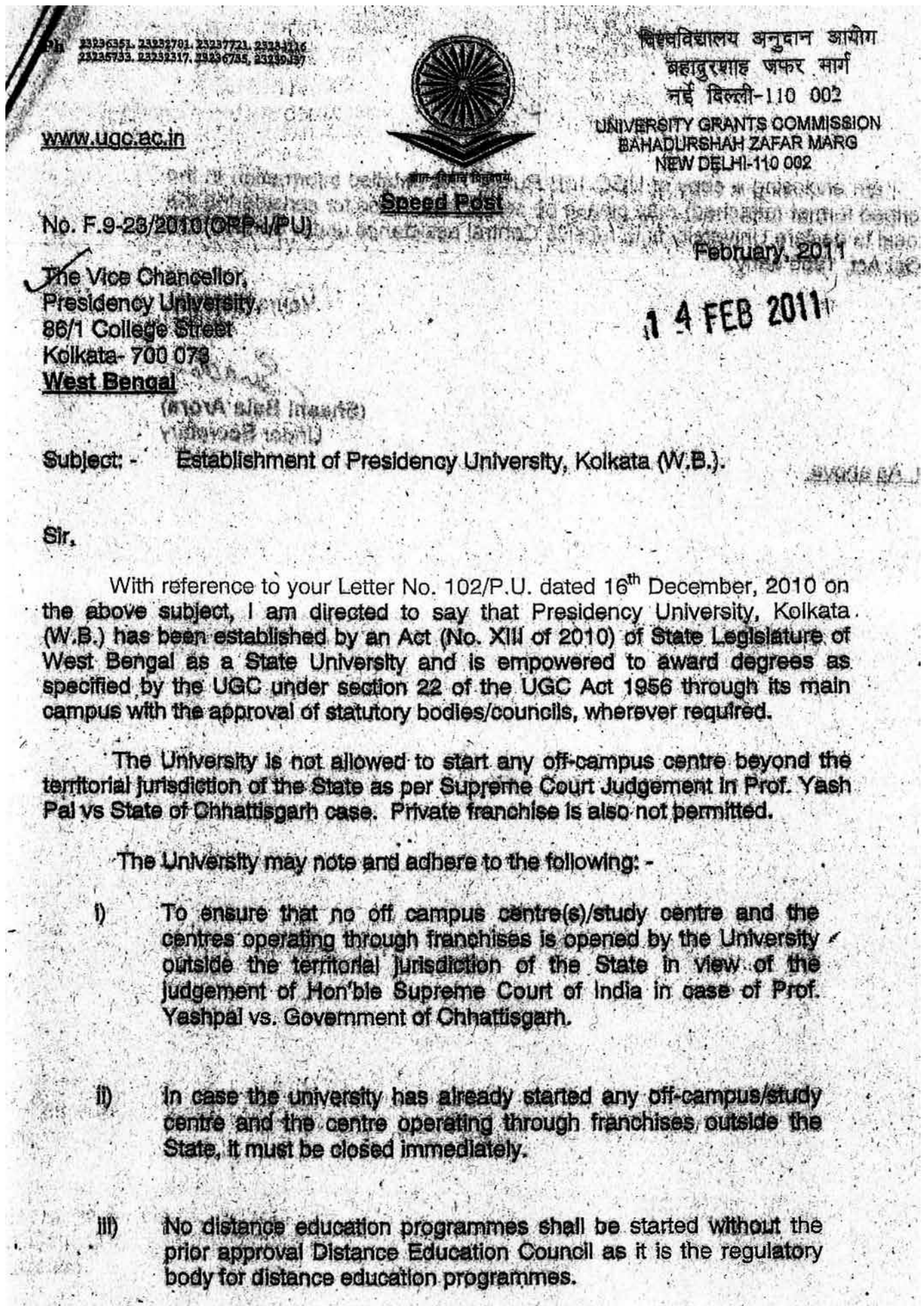
Yours faithfully,

(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.

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

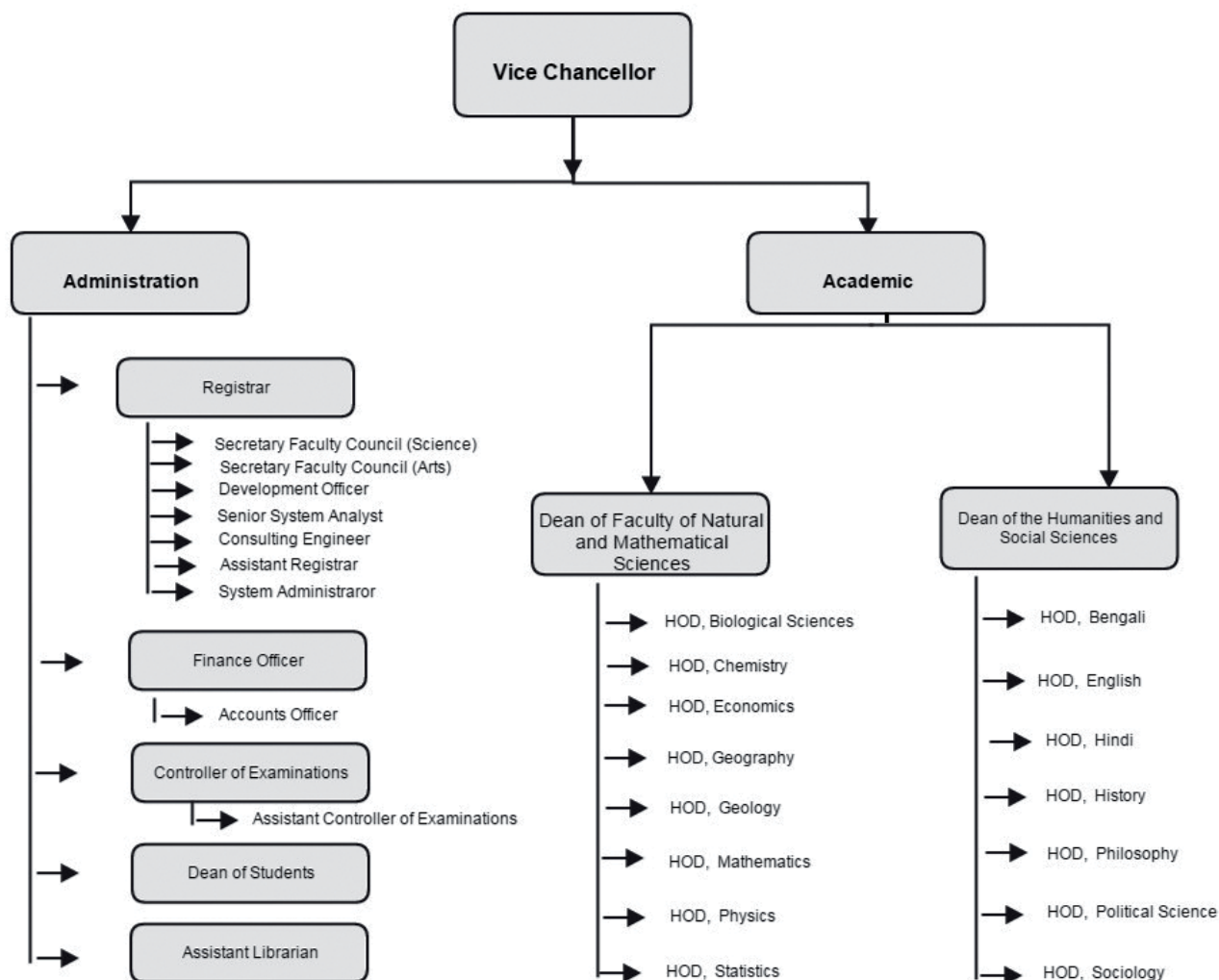
27/7/15

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





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