

*SELF STUDY REPORT FOR CYCLE II
ACCREDITATION 2015
OF
BARASAT GOVERNMENT COLLEGE
10, KNC ROAD, BARASAT, Pin-700 124
(Established 1950)*

NAAC CYCLE-I ACCREDITATION (2009): “B” GRADE (CGPA: 2.60)

RECIPIENT OF DST-FIST AWARD IN 2012

**Submitted to
National Assessment and Accreditation Council (NAAC)
An Autonomous Institution of the University Grants Commission
P.O. Box No 1075
Nagarbhavi
Bangalore-560072
India**



**GOVERNMENT OF WEST BENGAL
BARASAT GOVT. COLLEGE**

Office of the Principal

10 K. N. C. Road, Barasat, Kolkata-700124, Phone No. : (033) 2552 3365, Fax (033) 2562 5053
website : <http://barasatgovernmentcollege.net/>, E-mail : info@barasatgovernmentcollege.net

Memo No. 539

Date: 22.07.2015

To
The Director
National Assessment and Accreditation Council (NAAC)
P.O.BOX NO 1075
Nagarabhavi, Bangalore-560072
India

Ref: NAAC/CAPU/ET&NE/WBCOGN13949/2015 dated 24th February, 2015

Subject: Uploading of the Self Study Report, 2015 of Barasat Government College for Second Cycle of NAAC re-accreditation in the institutional website

Sir,

In compliance with the requirements of the letter of intent (LoI) sent from our end, we are uploading the self-study report (SSR) for the Second Cycle of NAAC accreditation of Barasat Govt. College (NAAC track ID: WBCOGN13949) in our institutional web site (www.bgc.org.in). The hard copies of the SSR will reach you within the stipulated time.

This is for your kind information and necessary action.

With regards.

Yours faithfully



[Signature]
Principal
Barasat Govt. College
Principal
Barasat Govt. College
Govt. of West Bengal



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Certificate of Compliance

(Affiliated/Constituent/Autonomous Colleges and Recognized Institutions)

This is to certify that Barasat Government College (Name of the institution) fulfils all norms

1. Stipulated by the affiliating University and/or
2. Regulatory Council/Body [such as UGC, NCTE, AICTE, MCI, DCI, BCI, etc.] and
3. The affiliation and recognition [if applicable] is valid as on date.

In case the affiliation / recognition is conditional, then a detailed enclosure with regard to compliance of conditions by the institution will be sent.

It is noted that NAAC's accreditation, if granted, shall stand cancelled automatically, once the institution loses its University affiliation or Recognition by the Regulatory Council, as the case may be.

In case the undertaking submitted by the institution is found to be false then the accreditation given by NAAC is liable to be withdrawn. It is also agreeable that the undertaking given to NAAC will be displayed on the college website.

Date: 22.07.2015

Place: Barasat, North 24 Parganas, West Bengal


Principal/Head of the Institution

(Name and Signature with Office seal)

Principal
Barasat Govt. College
Govt. of West Bengal





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PART-A

PREFACE

Barasat Government College is going through the course of the second cycle of accreditation by the National Assessment & Accreditation Council (NAAC) and this is our Self Study Report (SSR), which has been prepared according to the guidelines of NAAC with utmost sincerity and honesty to the best of our knowledge and belief. While preparing this report for the NAAC, we also have got the opportunity to evaluate and assess, based on a regular feedback analysis system prevalent in our college, our own institution as well as our activities and performances - our strengths and weaknesses, our positive sides and limitations, constraints and opportunities and so on. The institution, while engaging in these sorts of activities, always remains aware that dimensions and quality of education is continuously changing in the national and global arenas. It is not an act of disgrace to identify weaknesses and limitations of our own institution. On the contrary, it is the most basic act of recognition needed for the future improvement and progress of the college as quality of education needs to be continuously monitored and upgraded. Therefore, we did not hide our shortcomings. At the same time we have proudly mentioned and highlighted our achievements, strengths and best practices.

Barasat Government College is a distinguished premier institution not only of the district but also of this state. This college was set up in the year 1950, aiming to impart quality education to the pupils for their all-round development. The cultural heritage of Barasat is very rich and the light of the Bengal Renaissance has also touched its soil. Bankim Chandra Chatterjee, the renowned author and composer of the National Song of India, was the first Indian Deputy Magistrate of this town. Stalwarts like Ishwar Chandra Vidyasagar, Peary Charan Sarkar, Kalikrishna Mitra were known for undertaking several social reformative actions in Barasat, including the development of education, especially the women's education. A direct result of these events was the setting up of the first private school for girls in Bengal in 1847 by Kalikrishna Mitra with the help of Peary Charan Sarkar. Barasat Government College inherits this glorious cultural past. And needless to say, this inheritance adds to our responsibility towards the society and the nation.

As one of the leading colleges of the district, we do our best to ensure quality education. This endeavour attracts the good and meritorious students of the surrounding areas. Owing to its geographical location and position in the communication network, the college attracts students from a wide area and from a varied socio-economic background – a good number of whom come from the rural or semi-urban backward areas. Following the ideals of inclusive

education, we are committed to serve the needs of the larger society, involving all caste, creed or community, particularly to the underprivileged class, who are meritorious but lack the means. This is also manifested in the high rate of enrolment of SC, ST, OBC and Minority students. The ratio of the girl students of the college is also noticeably high. We remain aware of the fact that the more challenging task and the greatest one may be – is providing the access to higher education especially to those deserving sections of the society, who occasionally stop after finishing school education for various kinds of challenges- financial or other. It is our mission to prove that even a first generation learner can be a front runner given the opportunities, right facilities and guidance.

The college had first faced the NAAC Peer Team in 2009. The post-accreditation initiatives towards an all-round improvement of the college have been undertaken since then in collaboration with the IQAC, formed in 2010, and other stakeholders who have been working relentlessly to maintain the internal quality of teaching - learning and academic excellence. The college has taken significant measures by closely adhering to the suggestions of the Peer Team and has improved infrastructure considerably. The college has opened three new postgraduate courses in Physics, Zoology and Bengali, in addition to the existing PG department in Botany. Furthermore, a PG course in Chemistry has received affiliation from the university and preparations are on to open it in the coming session. There has been consideration regarding introduction of subjects like Statistics and Physical Education at the undergraduate level. The College has also paid attention to the development of research facilities within the faculty and students. Infrastructural supports such as special laboratories, seminar rooms, seminar libraries, computer facilities and smart classrooms have been added. The College received the DST-FIST grant in 2013, which added fillip to the process of development towards up-gradation of the Science faculties. The Arts departments have been better equipped with modern teaching aids. A special room for seminar library has been allotted for the Arts departments. On environmental issues, the college has initiated various steps towards maintaining an eco-friendly surroundings by adopting certain social programmes in a committed manner. Various other measures have also been taken. These are thoroughly mentioned in the SSR.

Before concluding, it must be mentioned that besides the faculty members, non-teaching staff and student community of the college are also involved in the rigorous task of preparing this Self Study Report. This collaborative effort must be appreciated. Sincere thanks also go to

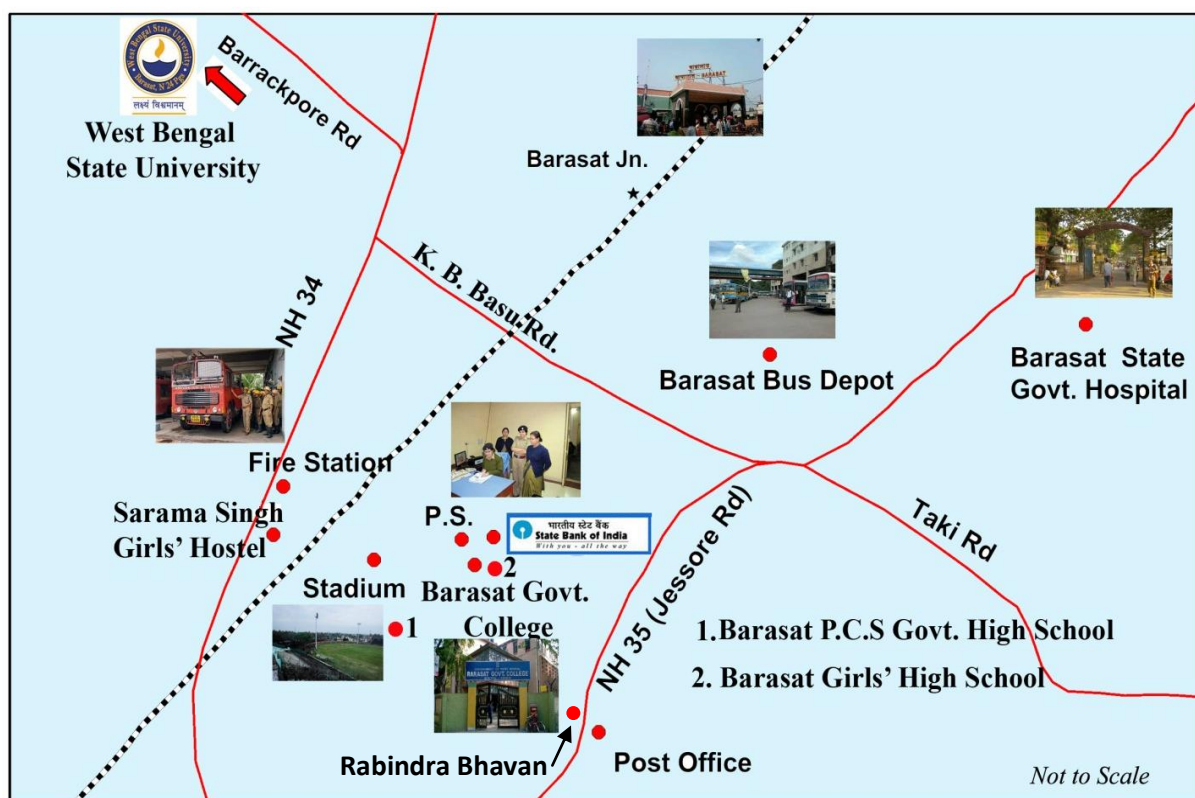
the UGC, DST, Higher Education Department and the other departments of Government of West Bengal, like PWD, Barasat Municipality which were engaged in various developmental activities, including improvement of the infrastructure facility of the college. We also want to acknowledge our gratitude to previous NAAC Peer Team who showed us avenues for improvement and progress as an institution.

By submitting this Self Study Report we declare that we are ready for the NAAC assessment. Our rigorous and collaborative endeavour of self-assessment will only be successful if it is appreciated by the NAAC Peer Team. We heartily invite the honourable NAAC Peer Team and eagerly look forward to their visit.

Principal
IQAC and NAAC Steering Committee
Barasat Government College, Barasat,
North 24 Parganas, West Bengal



Our College and Its Surroundings



PART-B(1)

EXECUTIVE SUMMARY

Barasat Government College is going through the course of the second cycle of accreditation by the National Assessment & Accreditation Council (NAAC). In 2009 the college had first faced the NAAC Peer Team and secured the grade point 2.6 and Grade B. The distinguished Peer Team-members had mentioned in their report eleven points that we should address in order to achieve higher grades. Since then, teachers of the College have been working relentlessly to maintain the internal quality of teaching - learning and academic excellence. The following are the criterion-wise major points identified by the institute in the process of development of the college.

Criterion-I: Curricular Aspects

- ✓ The vision and mission statements of the institution reflect a broad mandate for inclusive education. To fulfill this objective, the College has endeavored to ensure justice at the administrative level and integrity in academic aspects.
- ✓ The College puts efforts at promotion of eco-friendly good practices, sustenance of rights discourse, democratic consensus building through Students' forums etc. outside the purview of regular curriculum.
- ✓ The College offers undergraduate programmes in 13 honours subjects, 2 General courses, and postgraduate programmes in 4 subjects.
- ✓ For the undergraduate programmes under Science and Arts faculty the institution follows the curriculum set by the affiliating university i.e. West Bengal State University.
- ✓ On the other hand, in postgraduate programmes the departments have academic autonomy to design and implement their course curriculum. For the postgraduate programme, the departments follow a semester system.
- ✓ Practical and demonstrative teaching is undertaken in practical based subjects. Field based subjects organize educational excursions.
- ✓ Remedial classes are held beyond the stipulated class routine. Special classes are arranged for slow learners.
- ✓ Computer courses are imparted to the UG first year students so that the digital divide can be breached. Self-learning methods and career oriented soft-skills are also offered to the students, so that they can cope with their future progression.

- ✓ The faculties of different departments have formal and informal networks and academic linkages with Universities and Research Institutions of national and international repute.
- ✓ Formal and informal feedback from various stakeholders such as the students, teachers, parents and other peers on implementation of course curriculum, examination pattern etc. are analyzed by the departments and useful suggestions are assimilated.
- ✓ The institution takes care to maintain a healthy teacher-student ratio and to minimize the unit cost of education.
- ✓ The college has a unit of Netaji Subhas Open University. It offers 9 UG level course programmes and 10 PG level course programmes.
- ✓ Various seminars and outreach programmes have helped to foment a strong bond on the lines of institutional social responsibility.
- ✓ The college has successfully conducted UGC 'Entry-in-Service programme' to impart job-oriented coaching to the meritorious but underprivileged students.
- ✓ The use of ICT for the teaching-learning process is encouraged by College.
- ✓ The IQAC and Governing Body are always vigilant about the sustenance of quality of the different enrichment programmes and try to accommodate various suggestions for improvement.

Criterion-II: Teaching Learning and Evaluation

- ✓ The College is guided by the recruitment policy of Government of West Bengal and so it cannot appoint regular faculty on its own. Out of 86 sanctioned posts, there are 77 full time faculty members in the College (as on 15.06.2015). Additionally, there are 25 part-time teachers and 16 Guest/Visiting faculty members.
- ✓ The college utilizes its website (www.bgc.org.in) to keep the student community informed about regular activities and institutional progress.
- ✓ Completely merit-based admission has been a hallmark of this institution. The College has successfully implemented digitization of the entire admission process. The cost of applying to any courses has been kept at a bare minimum, without any profit motive.
- ✓ For the PG courses, admission tests are conducted in a limited manner. 60% of the PG seats are reserved for students of the home university (WBSU) and the remaining 40% seats are open to graduates of all universities.

- ✓ North 24 Parganas has 20.60% SC population and 2.22% ST population. However, the number of SC and ST students admitted in the College are higher than this rate.
- ✓ The college has a healthy male/female balance and female students have often fare better than their male counterpart.
- ✓ Each year a significant number of students from the minority community gets admitted in the College.
- ✓ The college also seeks to provide barrier-free environment for students with special learning needs to ensure equal opportunities.
- ✓ Parent-Teacher Meetings are conducted regularly and parents are encouraged to approach the department if their ward faces any difficulties with their studies or in the campus.
- ✓ Students facing financial challenges are given incentives to continue their studies. Scholarship grants as arranged for as much number of students as possible.
- ✓ The IQAC team annually visits all the departments to conduct internal academic audit of the departments. During the visits, the IQAC team monitors the academic activities, records of students' seminars, records of results of students and progress of University examination results of the departments.
- ✓ Provision for high speed broadband internet through both wireless and wired medium has been created in all the Departments, Teachers' Room, Library and College Office.
- ✓ The Library has UGC-INFLIBNET facility and has acquired institutional membership of *The British Council Library*, Kolkata.
- ✓ The College has organized five national level seminars, and various other extension lecture programmes.
- ✓ In the past five years, there have been fifty one instances of teachers completing refresher course/ orientation programme/ summer school/ workshops etc.
- ✓ 90% of faculty have presented papers in Workshops/ Seminars/ Conferences conducted or recognized by professional agencies.
- ✓ The college promotes research orientation by publishing peer reviewed articles in 'Aureole', the institutional academic journal (ISSN 0976-9625).
- ✓ The college strictly maintains transparency in the internal assessment of students. The teachers adhere to the pattern of evaluation prescribed by the University.

- ✓ The Institution encourages field visits and other such academic engagements by which the students develop their knowledge, consciousness on conservation and nature and social orientation.

Criterion-III: Research, Consultancy and Extension

- ✓ A Research Committee has been formed in accordance with UGC guidelines.
- ✓ Teachers who have completed Ph.D. are encouraged to carry out inter and intra departmental collaborative research in possible cases.
- ✓ The Committee has proposed to increase inter-disciplinary interactions through collaborative seminars. Several such seminars have been organized by both arts and science departments.
- ✓ The College provides major infrastructural facilities like library, laboratory, computer and internet facilities to pursue research activities. Central Instrument Facility containing sophisticated instruments are available (especially for Science departments).
- ✓ The postgraduate courses of Botany, Zoology and Physics incorporate Field work and individual Dissertation work for their M.Sc. students, which lay the foundation for research activity.
- ✓ Availability of 80,541 books (including old & rare books) in the library and about 50 Journal titles across many fields provide the students the opportunity of having a treasure of knowledge. Access to online journals through INFLIBNET and British Council Library adds to this wealth.
- ✓ Many faculty members of different Departments are also actively engaged in collaborative research work with many leading institutions/organisation.
- ✓ Dr. Madhumita Manna, faculty of Department of Zoology have been doing extensive research work on 'Kala-azar' and she frequently participates in various awareness programme on this issue.
- ✓ A Memorandum of Agreement was made between DBT, Department of Biotechnology, Ministry of Science and Technology, Govt. of India and Barasat Govt. College whereas DBT being desirous of Health Sciences decided to support a project submitted by Dr. Madhumita Manna, faculty of Department of Zoology.

- ✓ During the period from 2010-2015, the total number of publications by faculty members (serving this College) and students comprising papers published in peer and non-peer reviewed journals, monographs, chapter in books and books with or without ISSN/ISBN No. is 470.
- ✓ During the same period, 19 faculty members have been awarded their PhD degree. Some of these faculty members have subsequently been transferred to other Govt. Colleges.
- ✓ The IQAC and Research committees of the institution always encourage the Faculty members to extend consultancy service. They are provided with On-Duty Leave, if required.
- ✓ The NSS wing of the college started functioning in 2002 and has been an active body ever since. The College has also organized a workshop to promote awareness among the students regarding Thalassemia and performed blood screening.
- ✓ The outreach activities have most satisfactorily culminated into the Institution's collaboration with the *Kishalay* home for children.
- ✓ Dr. Manju Mondal has been instrumental in getting the stray mongrels living in the campus sterilized and vaccinated. She also feeds them regularly, an act that has inspired students to be kind towards animal and respect the bonding of man and his environment – a fundamental component of holistic education.

Criterion-IV: Infrastructure and Learning Resources

- ✓ In the last few years the College has witnessed the completion of the four-storied Annex Building, augmentation of floor space for the Department of Botany and Zoology in the Main Building to accommodate new laboratories meant for specialized research, ongoing construction of the new Chemistry building, revamping the floor area of Central Library.
- ✓ In addition to this, proposals have been sent for construction of 'Library and Morning Section Building' and 'Extension of Annex Building'.
- ✓ All science Departments have specialized facilities for research. Along with these E-classrooms have been set up in the Departments of Zoology and Botany to augment the process of teaching-learning.
- ✓ Healthcare needs of students are met through Students' Health Home. Nearly all teaching and non-teaching staff have been covered under Cashless West Bengal Health Scheme.

- ✓ While the College is yet to have its own hostel, arrangements have been made to reserve boarder seats for SC, ST girl students in the nearby Sarama Singh Girls' Hostel, run by Backward Classes Welfare Department, Govt. of West Bengal.
- ✓ Timing of the library has become effective for users of both morning and day section. Process of Computerization of library is going on and process of accessioning and cataloguing of new books are being computerized.
- ✓ Provision has been made to obtain formal feedback on the facilities and services of the library. Analysis of such feedbacks is shared with the library staff to improve the standards of service.
- ✓ 130 number of desktop, laptop and all-in-one computers are available at the College.
- ✓ The College has already taken initiative to enable the entire College with Campus-Wi-Fi Solution Network.
- ✓ Condemnation Committee of the College looks after proper disposal mechanism for discarded items. It organizes an auction so that the waste-material, especially e-waste may be handed over to authorized recyclers for proper disposal.
- ✓ The College has installed in a proper platform and shade, a silent auto- start pollution free DG Set of 50kVA capacity made by Cummins, Jackson to insure the sensitive instruments against power outage and to create adequate power back-up.

Criterion-V: Student Support and Progression

- ✓ The College publishes an annual Academic Calendar consisting of detailed information regarding College activities.
- ✓ Students of the College enjoy several types of incentives and scholarships from both government and non-government sources. Tuition fee-waiver scheme or free studentship is the primary form of scholarship provided at the institutional level.
- ✓ The students receive financial assistance from various sources of State Government and Central Government, such Kanyashree (K-2), Merit-cum-means scholarship, DST Inspire, Minority Scholarship sponsored by West Bengal Minority Development Finance Corporation, and other non-government scholarships.
- ✓ The Students' Aid Fund is used to extend financial assistance in the form of book grants, examination fees, tuition fees and excursion grants to the economically weaker students.

- ✓ The college has constructed one ramp each in the Main Building as well as in the Science Building for the differently-abled students. Braille books are available in the library for visually challenged students.
- ✓ Sahida Khatun, a differently able student of this College has participated in Paralympics and has received State Award from the Department of Women Development and Social Welfare as 'Role Model'
- ✓ Students of the College have been successful in various sports events and cultural competitions at the district/state/national level.
- ✓ 'Entry-in-Services programme', under UGC XIIth Plan for SC/ST/OBC (Non-Creamy Layer) and Minority candidates who have completed Bachelor's Degree/H.S or Madhyamik, is one endeavor which has run successfully in this College.
- ✓ Departmental teachers of Science disciplines also groom their students regarding competitive examinations like JAM/GATE etc. Success rate of the students in these examinations speaks volumes about the efforts of the teachers.
- ✓ Remedial classes and tutorials are organized for such slow learners. Bilingual explanation, revision of topics and practical sessions are arranged for them.
- ✓ Students of various Departments publish Wall magazine periodically.
- ✓ Various career counselling sessions were organized during last three-four years to provide the students a scope for industry interactions.
- ✓ The College has an Internal Complaints Committee (ICC), formed as per the Vishakha guidelines. It also has a Grievance Redressal Cell where students can record their grievances. They can also provide their feedback about the College in the evaluation forms given to them by the IQAC.
- ✓ Students are also made aware of the National Anti-Ragging Help Line (UGC Crisis Hotline) having the 24x7 Toll Free Number 1800-180-5522 and the email helpline@antiragging.in. The information packs from the anti-ragging portals are displayed in the College website in both English and vernacular language.
- ✓ No formal complaints related to ragging within the campus has been reported to the College Authority during the last four years or the recent past before.
- ✓ The college has a democratically elected Student Council named as "Barasat Government College Students' Union". The Students' Union is a highly active body looking after the

welfare of the general students. The members of the Union always cooperate with the college authority to maintain the academic atmosphere of the college.

- ✓ Soon the options for registration of Alumni members through the College website and integration of the portal with Facebook will be made available.

Criterion-VI: Governance, Leadership and Management

- ✓ As a Government College this institution is administered directly by the Higher Education Department and the Education Directorate, Government of West Bengal. They regulate year-wise budget allocation under the Plan and Non-plan heads for the College as well as enjoys full authority in all appointments, confirmation, career advancement, and transfer of Principal, Teachers and Non-teaching staff.
- ✓ Principal is the key element in developing the organizational structure, formulating and implementing the strategy of development through the college development committee and Governing body.
- ✓ Principal of the College believes in collective leadership and decentralized governance.
- ✓ The Internal Quality Assessment Cell (IQAC) keeps a regular tab on the academic aspects and activities of the College. It devises and formulates plans relating to future academic growth and sustenance of quality after feedback analysis.
- ✓ Stakeholders of the institution are co-opted while strategizing the growth trajectory of the institution.
- ✓ The Teachers' Council is an important forum where issues related to academic matters and overall development of the College in general are taken up. The management seeks the confidence of the Teachers' Council in implementing certain key targets.
- ✓ The Environment Protection and Nature Cell of the college aims to encourage all teaching, non-teaching members and students of the college to be aware and participate in activities connected with the conservation of nature and about the ill effects of the destruction of natural resources.
- ✓ Staying true to the spirit of any healthy organizational set-up, the new entrants to the service are groomed by the seniors at various levels in order to prepare them for the dual role of academician-administrator.
- ✓ Keeping in mind the quality of faculty members, basic infrastructure, results and students' demand, the College is going to introduce PG course in Chemistry. It has

already received due affiliation of West Bengal State University and is waiting for the final approval of the Higher Education Department.

- ✓ The teaching staff members are showing their interest to bring research fund against minor or major research projects for the overall academic development of the College. Funds are now coming from various State and Central Govt. agencies. The amount of funds received for minor and major projects is significantly higher than before.
- ✓ The non-teaching staff are given Computer training and hands-on interactive sessions with software such as COSA, E-Bantan, E-Pradan etc. for preparation of salary bill, keeping accounts, student's data and various other functions of the office.
- ✓ Being a Govt. College, we are guided by the financial rules of the Govt. of West Bengal. A number of committees consisting of teaching and/or non-teaching staff are constituted every year to ensure purchase of equipment, books and furniture.
- ✓ E-tendering process is ensured to maintain fairness in purchase related matters. Sufficient publicity is given to the tenders through other Govt. offices.
- ✓ The whole process of fund allocation and management is supervised by the Principal. The Governing Body also recommends proposals for the effective utilization of financial resources. Auditing is done periodically and stipulations are met.
- ✓ The institution receives annual and planned funds primarily from the Government of West Bengal and UGC. The College has also received project-wise funds from the DST, New Delhi. Apart from these, additional grants for specific purposes are also received by the College.
- ✓ Teachers of this College belong to a wider pool of cadres of West Bengal Education Service (W.B.E.S). Administrative functions with respect to higher education in West Bengal are handled by this cadre only.

Criterion-VII: Innovations and Best Practices

- ✓ The college gives high importance to the cleanliness of the campus as well as on developing a general environment consciousness among all its stakeholders.
- ✓ The concern for energy conservation prevails among both the staff and the students.
- ✓ The college is in the process of installing a Solar Panel photo-voltaic system at the roof top of the college building with the initiative of PWD, Electrical wing, Govt. of West Bengal.

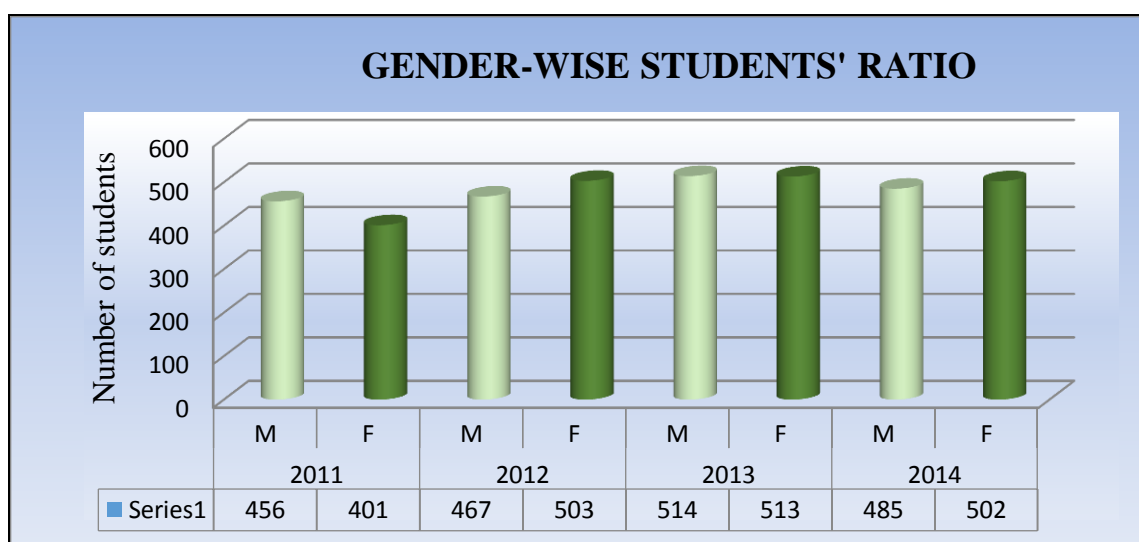
- ✓ In order to control the carbon level in the college initiatives towards regular plantation of trees plays a significant role. Further on dead leaves, waste paper, and other waste material are not burnt it is disposed off as municipal waste.
- ✓ The College has specially constructed a Waste Accumulation Area (WAA) outside the Department of Chemistry to dispose off the hazardous waste.
- ✓ Care is taken so that toxic material present in e-waste, like batteries, compressors of refrigerators, and CRT monitors do not come in contact with the natural elements.
- ✓ Teaching-learning enhancement through continuous evaluation and innovative practices/methods – is one of the best practices of the College.
- ✓ As evidence of success of such practice, students' performances in the University Examinations are remarkably good. Most of the University toppers are students of this institution. Moreover, study has revealed that students prefer this College over the nearest University for pursuing their post-graduation courses.
- ✓ Transfer of teachers affects the continuation/ consistency of the teaching-learning-evaluation system.
- ✓ Protection of environment and practicing ecological inclusion -- is another best practice of the College.
- ✓ The 'Solid Green waste' generated by the College is decomposed by the vermicomposting method under the supervision of Dr. D Chakraborty, Senior Faculty of the Department of Zoology.
- ✓ The college has delivered expert consultancy services for nature protection, e.g. the District Forest Officer of North 24 Parganas and a local NGO sought expert advice to preserve old road side rain trees in the district. Professors led by the Head of the department of Botany gave the detailed report to the district authority in due course.
- ✓ Vaccination camp for the stray dogs is a regular feature of the college. All the neighboring dogs are sterilized under the careful monitoring of our 'Environment Protection and Nature Cell'. These dogs have all been returned to their original environment after the Animal Birth Control programme as per norms.
- ✓ These activities can be accelerated even more if a handsome Government fund is available and if the local civic bodies come forward to assist us in greater measure.

PART-B(2)

SWOC ANALYSIS

Institutional Strength

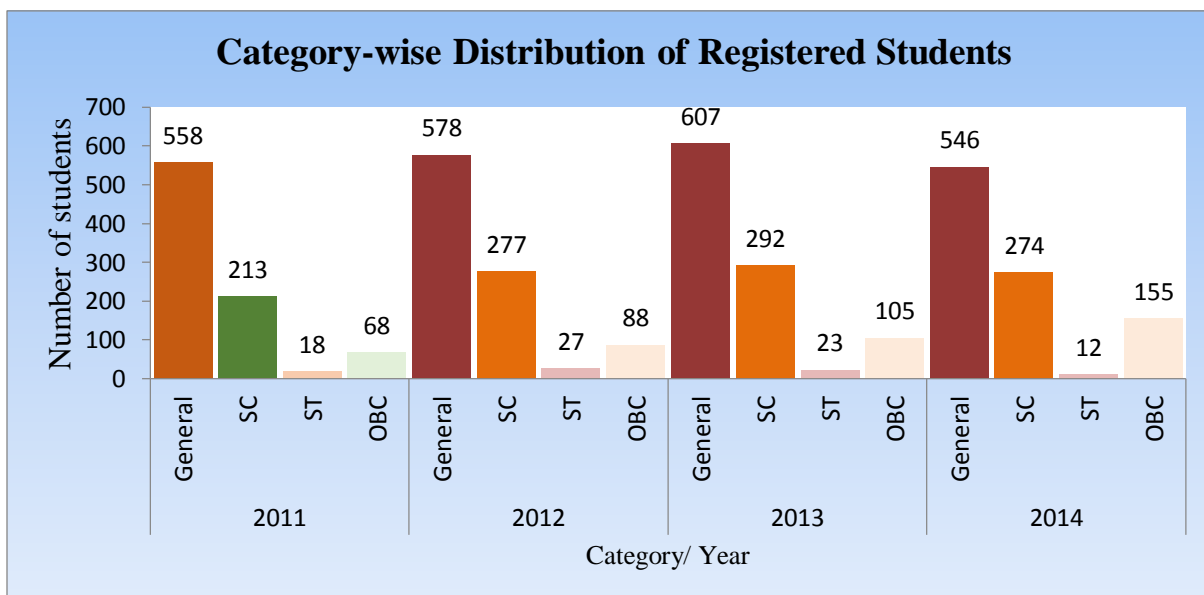
- Barasat Government College draws its strength from a well activated feedback system which is utilized by a diverse section of the stakeholders and through varied manners.
- The College enjoys an advantageous location. Situated at the district headquarter, it is well-connected by railway, road network and airport. Other essential facilities like Bank, Post-office, District Library, Administrative offices, Govt. Hospital, Stadium etc. are in close proximity of the College.
- The College inherits a glorious legacy and excellent academic performances, believes in inclusive growth as well as quality assurances with equal opportunities for all students.
- Carrying on the pioneering role of female education in Bengal, more than 50% of the student strength for successive years are constituted by girl students of this college. We feel this is a direct legacy of a culture of female education, whereby Bengal's first private school for girls was set up here in 1847.



- Being a Government College, it earns the faith of the larger populace regarding academic quality, creating a positive and transparent environment. Infrastructural and logistical facilities of other Government Institutions are easily available to our students, teachers and staff.
- The cost of education is very low. Special care and assistance for students from economically weaker and BPL section are taken through measures like – a nominal fee structure as compared to other colleges, number of scholarships and regular incentives are provided to the

students from scheduled caste and tribes and minority students, Kanyashree Prakalpa and Indira Gandhi scholarships for single girl child, DST Inspire etc.

- The college offers free-studentship to meritorious but financially weaker section of students.



- The College has recorded consistently good academic results. Many students have topped University merit list. Students' achievements in games and sports and cultural functions at the state/national/international levels have brought glory to the College.
- Under the guidance of the Principal peaceful functioning of the College is ensured and it has created a congenial atmosphere of mutual learning.
- A pool of highly qualified, dedicated and committed teaching faculties as well as non-teaching staff have devoted themselves for the enrichment of the Institutional goodwill. The College is able to draw the special attention of its affiliating University.
- Social outreach initiatives through NSS have added to our strength.
- PG courses have been introduced in the departments of Bengali, Zoology and Physics after the last NAAC peer team's visit. Additionally, new PG course for Chemistry has been granted affiliation by the University, pending final government approval.
- Greater participation in research has improved substantially since the introduction of postgraduate courses. Research projects and peer reviewed publications both in national and international journals are testimony to the contribution of the institution in higher academic field.

- The college has modern laboratories for hands-on training facility meant for students.
- An enriched computerized library with wide repertoire of study materials and a huge number of relevant and current titles is our asset. Students avail internet and reprographic facilities in Central library.
- Positive endeavor towards adoption of updated technology in the form of computerization of admission process, office administration, accounting and aspects of library as well as in the departmental activities is gaining momentum.
- Students also get medical benefits through Students' Health Home. Book banks cater to poor students. Subsidized canteen, cheap store etc. are meant for them. Apart from this, expenditure for field study is also provided to needy students.
- All teaching and non-teaching employees of the institution and their family members, are assured of their health insurance aspects through the Cashless West Bengal Health Scheme.

Institutional Weakness

- Space constraint is one of the weaknesses of the College given the annual increase in the number of students and courses. There is less scope for infrastructural extension in the present campus. However, the College is mulling the option for creating a separate college campus for the morning section, for better management and optimal utilization of the available resources.
- Students of the College have to share the playground with the adjoining school as options for other outdoor sports activities within the campus are limited.
- The college has to depend on the arrangements for utilizing the facilities of the adjacent stadium (Vidyasagar Krirangan).
- The College is yet to have its own hostel. The students have to share different Govt. Hostels.
- The college has no large auditorium of its own; it has to use adjacent district auditorium (Rabindra Bhavan) for organizing functions involving large gathering.
- Transfer of teachers at times create a shortage of manpower and sometimes disrupts the momentum. The College cannot fill its vacancies independently.
- Vacancies for Librarian and non-teaching staff need to be filled up. Due to shortage of Library staff, it has not yet been possible to operate the library beyond normal College hours.
- As the institute is yet to have academic autonomy at the UG level, its contribution in curriculum designing and modification remains limited.

- Limited resources of funds and financial dependence on Government – these are some of the pulling-back factors in the growth chart of the College. Government permissions are needed for fund generation; there are hardly any scope for financial autonomy.
- It has limited scope for career placement/job opportunities in private sectors for all UG students.
- The occasional official requisition of college premises for commissioning and conducting Public Elections causes loss of teaching days and affects campus cleanliness.

Opportunities lying ahead of the Institution

- Further expansion of postgraduate courses will benefit the region as considerable demand exists for harnessing the opportunity for postgraduate studies. The increasing number of applicants for existing PG courses is testimony to such demands.
- The College library maintains institutional membership of the British Council Library and UGC-Inflibnet, which enable the students and staff of the college to access the e-resources. Also, there is an agenda to subscribe to JSTOR publications, to promote research works. Moreover, introduction of cataloguing for LIBSYS software help students search for more titles.
- The success of the students in all-India level entrance examinations such as UGC-NET, IIT, JAM, GATE etc. has increased the expectation of pupils from the institution.
- Recent introduction of a short course in Communicative English for the students is another opportunity for the students.
- Integration of LAN and internet facilities exist in different departments. Wi-Fi enabled campus will create a better connectivity among the stakeholders and will increase the academic output of the College to a great extent.
- A Reprographic Centre is available in the college campus, where the students can get the facilities of pay-phone, internet, scan and photo copy at a low rate.
- It has provision for adult and continuing education through NSOU.
- It has universalization of computer education through NIELIT.
- It has employment assistance through coaching under UGC sponsored Entry in services scheme.
- It arranges syllabus oriented tutorial and remedial classes on a regular basis.
- The college has been conducting various professional examinations on holidays.

Challenges before the Institution

- The College has limited resources for imparting formal education to a larger student base. The demand pattern during admissions reflects a worrying trend. For example, during the current session demand-ratio for each seat of Bengali Honours stands at a figure of 1:32. The college needs a holistic plan to accommodate these students.
- Upgradation of status and more autonomy will require structural and statutory changes. The development of a perspective plan for a longer period with short term sub-plans is dependent on the State Government policy as the College is entirely guided by the State Government rules and regulations, pertaining to recruitment of staff, income and expenditure. All employees are subject to the West Bengal Service Rules and West Bengal Financial Rules. The State Government, however, welcomes proposals for development.
- Academic planning for UG level is entirely dependent on West Bengal State University, though the University welcomes suggestions.
- The academic performance of the students is good, yet there remains further scope for improvement. Given the annual increase in intake capacity, the challenge is to retain and enhance the quality performance.
- Smooth integration of all these graduates in the job-market remains a challenge, given the changing pattern of demand-structure of the industries scouting for talents. Attrition among students of science stream, in search of courses that assure placement, is a concern.
- Without the removal of obsolescence of technology from time to time, the restructuring of syllabus and the improvements/upgradation of laboratory facilities, the present advantages will be difficult to sustain.

PART-C

PROFILE OF THE COLLEGE

1. Name and Address of the College:

Name :	BARASAT GOVERNMENT COLLEGE		
Address :	10 & 10 /1 K.N.C. ROAD. P.O.-BARASAT, DIST.-NORTH 24 PARGANAS; WEST BENGAL, PIN – 700 124		
City : BARASAT	Pin : 700 124	State : WEST BENGAL	
Website : www.bgc.org.in			

2. For Communication:

Designation	Name	Telephone with STD Code	Mobile	Fax	E-mail
Principal	Dr. Subhasis Dutta	O: 033-25523365 R: 033-24052594	9433563658	033-25625053	principal@bgc.org.in sdutta7160@gmail.com
Vice-Principal	No Such Post Exists				
Steering Committee Coordinator	Mr. Kinshuk Nandi	O: 033-25523365	9830622568	033-25625053	kinshuk.nandi@gmail.com

3. Status of the Institution

- Affiliated ☒
- Constituent College ☐
- Any other, please specify ☐

4. Type of Institution**a. By Gender**

- i. For Men ☐
- ii. For Women ☐
- iii. Co-education ☒

b. By Shift

i. Regular

☐

ii. Day

☒

iii. Evening

☐**5. It is a recognized minority institution?**

Yes

☐

No

☒

If yes specify the minority status (Religious/linguistic/ any other) and provide documentary evidence

NOT APPLICABLE

6. Sources of funding:

Government

☒

Grant-in-aid

☒

Self-financing

☐

Any other

☐**7. a. Date of establishment of the college: 07.09.1950 (dd/mm/yyyy)**

b. University to which the college is affiliated /or which governs the college (If it is a constituent college)

WEST BENGAL STATE UNIVERSITY (BARASAT)

c. Details of UGC recognition:

Under Section	Date, Month & Year (dd-mm-yyyy)	Remarks(If any)
i. 2 (f)	00-00-1956	The college was included u/s 2(f) of UGC act since the inception of UGC
ii. 12 (B)	00-00-1956	The college was established before 1956 and was included u/s 12(B) of UGC act since its enforcement.

(Please see **Annexure** for Certificate of recognition u/s 2 (f) and 12 (B) of the UGC Act)

d. Details of recognition/approval by statutory/regulatory bodies other than UGC (AICTE, NCTE, MCI, DCI, PCI, RCI etc.)

Under Section/ clause	Recognition/Approval details Institution/Department Programme	Day, Month and Year (dd-mm-yyyy)	Validity	Remarks
i.	NONE	N.A.	N.A.	N.A.
ii.				
iii.				
iv.				

(Enclose the recognition/approval letter)

8. Does the affiliating university Act provide for conferment of autonomy (as recognized by the UGC), on its affiliated colleges?

Yes

☐

No

☒

If yes, has the College applied for availing the autonomous status?

Yes

☐

No

☐

9. Is the college recognized

a. by UGC as a College with Potential for Excellence (CPE)?

Yes

☐

No

☒

b. for its performance by any other governmental agency?

Yes

☒

No

☐

If yes, Name of the agency: Department of Science and Technology, Government of India¹

Date of recognition: 15.02.2012 (dd/mm/yyyy)

10. Location of the campus and area in sq.mts:

Location *	Urban
Campus area in sq. mts.	9,029.451 sq. mts
Built up area in sq. mts.	3,245.363 sq. mts

(*Urban, Semi-urban, Rural, Tribal, Hilly Area, Any others specify)

¹ FIST was awarded with respect to all the Departments of the College by the DST and the College has received the grant of Rs. 67 Lakhs in the first installment. The College actually received Rs. 56.5 Lakhs as grant.

11. Facilities available on the campus (Tick the available facility and provide numbers or other details at appropriate places) or in case the institute has an agreement with other agencies in using any of the listed facilities provide information on the facilities covered under the agreement.

➤ **Auditorium/seminar complex with infrastructural facilities** ☒

One Auditorium is in the Annex Building having a seating capacity of 150. Apart from this, there is another auditorium on the Ground Floor of Main Building with provision for 150 seats, while one Seminar Hall each are there in Department of Botany and Zoology, having seating capacity of 60 each.

➤ **Sports facilities**

▪ **Play Ground²** ☒

▪ **Swimming Pool** ☐

▪ **Gymnasium** ☒

➤ **Hostel**

▪ **Boys' hostel** ☐

i. Number of hostels -- N.A.

ii. Number of inmates – N.A.

iii. Facilities (mention available facilities) – N.A.

▪ **Girls' Hostel³** ☒

i. Number of hostels --

ii. Number of inmates –

iii. Facilities (mention available facilities) –

▪ **Working Women's Hostel** ☐

i. Number of inmates – N.A.

ii. Facilities (mention available facilities) – N.A.

➤ **Residential facilities for teaching and non-teaching staff (give numbers available — cadre wise)**

1. One (1) quarter is available for non-teaching staff within the College campus. Accommodation is also provided by the district administration as and when they apply.

2. Since the teachers are cadres of W.B.E.S, State Government quarters are arranged for them by the district administration as and when they apply.

➤ **Cafeteria** ☒

² The College shares a Common Playground with the adjacent Govt. School for Boys.

³ Hostel seats for Scheduled Caste and Scheduled Tribe Girl students are arranged in the Sarama Singh Central Hostel for Girls' at Barasat, run by Govt. of West Bengal. The College also plans to set up its own Girls' Hostel in future.

➤ **Health Centre⁴**☒

- **First aid, Inpatient, Outpatient, Emergency care facility, Ambulance**

First Aid facility

☒

- **Health Centre staff**

Qualified doctor

Full Time

☐

Part-time

☐

Qualified Nurse

Full Time

☐

Part-time

☐➤ **Facilities like banking, post office, book shops**

SBI Barasat branch is located just outside the College. Scholarship grants for students are disbursed through zero balance accounts. Salary of teaching and non-teaching staffs are disbursed through Account transfer.

Post-office and book shops are available within 500 metres of the College. The College has a Cheap-Store catering to the needs for stationery items of the students.

➤ **Transport facilities to cater to the needs of students and staff**☐➤ **Animal house**☐➤ **Biological waste disposal⁵**☒➤ **Generator or other facility for management/regulation of electricity and voltage**☒➤ **Solid waste management facility⁶**☒➤ **Waste water management⁷**☐➤ **Water harvesting⁸**☐

⁴ Students' Health Home and District Govt. Hospital facilities are availed as and when required. Apart from this, all teaching and non-teaching staff of the College are eligible to avail cashless treatment at all listed super-specialty hospitals and Diagnostic Centers under West Bengal Health Scheme. Detailed list of such Hospitals are mentioned in the G.O. No. 4656-F (MED) dated 05.09.2014, issued by the Finance Department, Govt. of West Bengal.

⁵ Department of Zoology uses autoclave procedure to dispose off biological waste.

⁶ Vermicomposting method is used to manage solid waste generated within the campus.

⁷ Department of Chemistry has a Waste Accumulation Area (WAA) to properly dispose off the hazardous chemicals.

⁸ The College has engaged Surface Water Investigation Department (SWID), Govt. of West Bengal to implement the project. A feasibility report is expected soon.

12. Details of programmes offered by the college (Give data for current academic year)

Data for 2014-15 Academic Session

Sl. No.	Programme Level	Name of the Programme/ Course	Duration	Entry Qualification	Medium of instruction	Sanctioned/ approved Student strength	No. of students admitted
1.	B.A. (Honours)	Bengali	3 years	*(See Table 1)	Bengali	76	71
		English	3 years	*(See Table 1)	English	76	72
		Sanskrit	3 years	*(See Table 1)	Bengali/ Sanskrit	46	44
		History	3 years	*(See Table 1)	English/ Bengali	76	63
		Philosophy	3 years	*(See Table 1)	English/ Bengali	76	57
		Political Science	3 years	*(See Table 1)	English/ Bengali	76	43
2.	B.Sc. (Honours)	Physics	3 years	*(See Table 1)	English/ Bengali	53	36
		Chemistry	3 years	*(See Table 1)	English/ Bengali	41	33
		Mathematics	3 years	*(See Table 1)	English/ Bengali	58	50
		Botany	3 years	*(See Table 1)	English/ Bengali	46	25
		Zoology	3 years	*(See Table 1)	English/ Bengali	46	43
		Geography	3 years	*(See Table 1)	English/ Bengali	50	53
		Economics	3 years	*(See Table 1)	English/ Bengali	46	01
3.	B.A. (General)		3 years	*(See Table 1)	English/ Bengali	316	334
4.	B.Sc. (General)		3 years	*(See Table 1)	English/ Bengali	139	62
5.	M.A	Bengali	Four Semester	**	Bengali	32	32
6.	M.Sc.	Botany	Four Semester	**	English/ Bengali	27	27

	M.Sc.	Zoology	Four Semester	**	English/ Bengali	27	27
		Physics	Four Semester	**	English/ Bengali	22	22
7.	Integrated PG Programmes	-- None --					
8.	M.Phil.	-- None --					
9.	Ph.D	-- None --					
10.	Certificate courses	-- None --					
11.	UG Diploma	-- None --					
12.	PG Diploma	-- None --					
13.	Any Other (provide details)	-- None --					

*** Table-1.** Category-wise entry level qualification of different UG subjects. Aggregate of best four subject marks obtained at 10+2 is considered to calculate the Aggregate.

Subject	Eligibility Criteria for General, OBC-A and OBC-B candidates	Eligibility Criteria for SC/ST candidates
Bengali	50% in aggregate, 50% in respective subject	40% in aggregate, 40% in respective subject
English	60% in aggregate, 60% in respective subject	40% in aggregate, 40% in respective subject
Sanskrit	50% in aggregate, 50% in Sanskrit	40% in aggregate, 40% in Sanskrit
History, Philosophy, Political Science	50% in aggregate, 50% in respective subject. (In case the candidate does not have the subject at the plus two level, 50% in ENGLISH)	40% in aggregate, 40% in respective subject. (In case the candidate does not have the subject at the plus two level, 40% in ENGLISH)
Physics	60% in aggregate, 60% in both Physics and Mathematics, and Pass marks in Chemistry	40% in aggregate, 40% in both Physics and Mathematics, and Pass marks in Chemistry
Chemistry	60% in aggregate, 60% in Chemistry, 45% in Mathematics, and Pass marks in Physics	40% in aggregate, 40% in Chemistry, 40% in Mathematics, Pass marks in Physics
Mathematics	60% in aggregate, 60% in Mathematics, and Pass marks in both Physics and Chemistry	40% in aggregate, 40% in Mathematics, and Pass marks in both Physics and Chemistry

Botany	55% in aggregate, 60% in Biology, and Pass marks in Chemistry	40% in aggregate, 40% in Biology, and Pass marks in Chemistry
Zoology	60% in aggregate, 60% in Biology, and Pass marks in Chemistry	40% in aggregate, 40% in Biology, and Pass marks in Chemistry
Geography	60% in aggregate, 60% in Geography	40% in aggregate, 40% in Geography
Economics	55% in aggregate, 40% in Mathematics, 40% in English	40% in aggregate, 40% in Mathematics, 40% in English
B.A General	50% in aggregate	40% in aggregate
B.Sc. General	50% in aggregate	40% in aggregate

****** Under-graduate students who have passed with Honours in the respective subject are eligible to apply for the PG courses.

13. Does the college offer self-financed Programmes?

Yes ☐ No ☒

If yes, how many?

NOT APPLICABLE

14. New programmes introduced in the college during the last five years if any?

Yes	<input checked="" type="checkbox"/>	No	<input type="checkbox"/>	Number	03
-----	-------------------------------------	----	--------------------------	--------	----

15. List the departments: (respond if applicable only and do not list facilities like Library, Physical Education as departments, unless they are also offering academic degree awarding programmes. Similarly, do not list the departments offering common compulsory subjects for all the programmes like English, regional languages etc.)

Faculty	Departments (eg. Physics, Botany, History etc.)	UG (Hons.)	UG (General)	PG	Research
Science	Physics	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	
	Botany	<input checked="" type="checkbox"/>		<input checked="" type="checkbox"/>	
	Zoology	<input checked="" type="checkbox"/>		<input checked="" type="checkbox"/>	
	Mathematics	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>		
	Chemistry	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>		
	Geography	<input checked="" type="checkbox"/>			
	Economics ⁹	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>		

⁹ It is part of Bachelor of Science in UG Honours and part of Bachelor of Arts programme in UG General Course.

Arts	Bengali	√	√	√	
	English	√	√		
	History	√	√		
	Political Science	√	√		
	Philosophy	√	√		
	Sanskrit	√	√		
Commerce	-- None --				
Any Other (Specify)	-- None --				

16. Number of Programmes offered under (Programme means a degree course like BA, BSc, MA, M.Com.)

a. Annual System

15

b. Semester System

04

c. Trimester System

17. Number of Programmes with

a. Choice Based Credit System

b. Inter/Multidisciplinary Approach

c. Any other (specify and provide details)

18. Does the college offer UG and/or PG programmes in Teacher Education?

Yes

☐

No

☒

If yes

a. Year of Introduction of the programme(s) N.A. (dd/mm/yyyy) and number of batches that completed the programme

N.A.

b. NCTE recognition details (if applicable)

Notification No.: N.A.

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

Validity: N.A.

- c. Is the institution opting for assessment and accreditation of Teacher Education Programme separately?

Yes ☐

No ☒

19. Does the college offer UG and/or PG programmes in Physical Education?

Yes ☐

No ☒

If yes

- a. Year of Introduction of the programme(s) N.A. (dd/mm/yyyy) and number of batches that completed the programme N.A.

- b. NCTE recognition details (if applicable)

Notification No.: N.A.

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

Validity: N.A.

- c. Is the institution opting for assessment and accreditation of Physical Education Programme separately?

Yes ☐

No ☒

20. Number of teaching and non-teaching positions in the Institution

Status as on 15.06.2015

Positions	Teaching faculty						Non-teaching staff		Technical staff	
	Professor		Associate Professor		Assistant Professor					
	*M	*F	*M	*F	*M	*F	*M	*F	*M	*F
Sanctioned by the UGC / University / State Government	03 + 01 Post for Principal		80+02 Librarian				35		--	
<i>Recruited</i>	03+ 01	00	17+ 01	08	28	19	26	06	--	--
<i>Yet to recruit</i>	00		08+01 Librarian				03		--	
Sanctioned by the Management/society or other authorized bodies	-- None --									
<i>Recruited</i>	-- N.A. --									
<i>Yet to recruit</i>	-- N.A. --									

*M-Male *F-Female

21. Qualifications of the teaching staff: (Status as on 15.06.2015)

Highest qualification	Professor		Associate Professor		Assistant Professor		Total
	Male	Female	Male	Female	Male	Female	
Permanent teachers							
D.Sc./D.Litt.	x	x	x	x	x	x	x
Ph.D.	03+ 01 Principal	x	13*	06	14	13	50
M.Phil.	x	x	x	x	02	01	03
PG	x	x	05	01	12	06	24
Temporary teachers (Guest Faculty)							
Ph.D.					16	x	16
M.Phil.					x	x	x
PG					x	x	x
Part-time teachers							
Ph.D.					00	01	01
M.Phil.					x	04	04
PG					02	18	20

**Includes the Librarian as well*

22. Number of Visiting Faculty /Guest Faculty engaged with the College.

16

23. Furnish the number of the students admitted to the college during the last four academic years.**Data Pertaining to UG Admission**

Categories	2014-15		2013-14		2012-13	2011-12
	Male	Female	Male	Female	Total	Total
SC	132	142	155	137	277	213
ST	13	09	13	10	27	18
OBC	86	69	68	37	88	68
General	254	292	278	329	578	558
Others (Minority)	111	82	92	73	178	118

Data Pertaining to PG Admission

Categories	2014-15		2013-14		2012-13		2011-12	
	Male	Female	Male	Female	Male	Female	Male	Female
SC	11	15	11	09	22	06	10	13
ST	01	01	01	00	02	00	00	01
OBC	06	12	05	07	05	05	02	00
General	17	40	24	42	26	38	21	43
Others (Minority)	04	09	02	03	08	07	03	07

24. Details on students enrollment in the college during the current academic year:**(Data Pertaining to 2014-15 Session)**

Type of students	UG	PG	M. Phil.	Ph.D.	Total
Students from the same state where the college is located	2,614	204	00	00	2,818
Students from other states of India	00	00	00	00	00
NRI students	00	00	00	00	00
Foreign students	00	00	00	00	00
Total	2,614	204			2,818

25. Dropout rate in UG and PG (average of the last two batches)**UG**

5% - 6%

PG

≤1%

26. Unit Cost of Education

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

(a) including the salary component

Rs. 31,569/-

(b) excluding the salary component

Rs. 2,321/-

27. Does the college offer any programme/s in distance education mode (DEP)?

Yes

☒

No

☐

If yes,

a) is it a registered centre for offering distance education programmes of another University

Yes

☒

No

☐

b) Name of the University which has granted such registration.

NETAJI SUBHAS OPEN UNIVERSITY

c) Number of programmes offered¹⁰

21

d) Programmes carry the recognition of the Distance Education Council.

Yes



No



28. Provide Teacher-student ratio for each of the programme/course offered

Sl No.	Programme Level	Name of Programme /Course	No. of Registered Students ¹¹	No. of Teachers ¹²	Teacher-Student Ratio
1.	B.A. (Honours)	Bengali	206	12	1:17
		English	222	6	1:37
		Sanskrit	119	5	1:24
		History ¹³	197	4	1:49
		Philosophy	178	5	1:36
		Political Science	161	6	1:27
2.	B.Sc (Honours)	Physics	106	12	1:9
		Chemistry	94	8	1:12
		Mathematics	143	5	1:29
		Botany	91	10	1:9
		Zoology	122	12	1:10
		Geography	152	6	1:25
		Economics	13	4	1:3
3.	B.A. (General)		987	15	1:66
4.	B.Sc. (General)		193	12	1:16
5.	PG (Arts)	Bengali	61	11	1:6
6.	PG (Science)	Botany	52	10	1:5
		Zoology	49	17	1:3
		Physics	41	12	1:4

¹⁰ NSOU offers 9 UG level course programmes and 10 PG level course programmes. Along with these it also offers Bachelor degree and Master degree in Library and Information Science (BLIS and MLIS).

¹¹ Those UG students who have completed the registration process between the 2012-13 and 2014-15 academic sessions (i.e. last three years) have been taken into consideration. For PG students, this is with regard to the students completing registration between 2013-14 and 2014-15 (i.e. last two years).

¹² Includes both full-time and part-time teachers of the Department at the beginning of 2014-15 session. For PG programmes, Guest Teachers have also been taken into consideration.

¹³ At the beginning of 2014-15 session, this Department had full faculty strength. However, two newly recruited teachers were transferred on 08.06.2015.

29. Is the college applying for

Accreditation: Cycle 1 ☐ Cycle 2 ☒ Cycle 3 ☐ Cycle 4 ☐
 Re-Assessment: ☐

(Cycle 1 refers to first accreditation and Cycle 2, Cycle 3 and Cycle 4 refers to re-accreditation)

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

Cycle 1: 30.09.2009(dd/mm/yyyy) Accreditation Outcome/Result CGPA of 2.60 of four point scale at B grade*

Cycle 2: N.A. (dd/mm/yyyy) Accreditation Outcome/Result N.A.

Cycle 3: N.A. (dd/mm/yyyy) Accreditation Outcome/Result N.A.

(*Copy of accreditation certificate(s) and peer team report(s) enclosed in Annexure)

31. Number of working days during the last academic year.¹⁴

198

32. Number of teaching days during the last academic year.

182

(Teaching days means days on which lectures were engaged excluding the examination days)

33. Date of establishment of Internal Quality Assurance Cell (IQAC):

06.01.2010 (dd/mm/yyyy)

34. Details regarding submission of Annual Quality Assurance Reports (AQAR) to NAAC.

AQAR (i) (2010-11) 21.07.2015 (dd/mm/yyyy)

AQAR (ii) (2011-12) 21.07.2015 (dd/mm/yyyy)

AQAR (iii) (2012-13) 23.07.2015 (dd/mm/yyyy)

35. Any other relevant data (not covered above) the college would like to include. (Do not include explanatory/descriptive information)

¹⁴ The PG Departments remain open for teaching-learning-evaluation process even during vacations. Hence the number of working days and teaching days are higher for the PG Departments.

PART-D

CRITERION-WISE EVALUATIVE REPORTS

CRITERION - I

CURRICULAR ASPECTS

CRITERION I: CURRICULAR ASPECTS**1.1 Curriculum Planning and Implementation**

1.1.1 State the vision, mission and objectives of the institution, and describe how these are communicated to the students, teachers, staff and other stakeholders.

VISION

To inculcate an urge for knowledge and enlightenment in the younger generation so that they can be ready to participate in the Nation's development, adding to its welfare, progress, security and environmental protection.

MISSION

- i. To follow up its glorious tradition of excellent academic performances, inclusive growth as well as quality assurances with equal opportunities.
- ii. To increase female participation in the field of higher education as a part of the legacy of this town.
- iii. To provide access to higher education to a greater number of students particularly from the weaker sections, irrespective of religion, caste or creed through formal and non-formal (distant learning) mode without compromising with quality.
- iv. To impart quality based higher education with a view to acquiring knowledge and developing skills among the students to generate new vistas of resources for the country.
- v. To develop knowledge of liberal arts, basic sciences, biological sciences, social sciences, physical education and other multi-disciplinary courses of modern relevance.
- vi. To develop a responsible, sensitive youth force who have social commitments for the greater section of society at large.
- vii. To lay emphasis on value education so that the students would become worthy citizens with noble ideals of serving their country.
- viii. To promote analytical and empirical research and micro-studies in basic and social sciences, and humanities with special emphasis on the needs and problems of the allied areas.
- ix. To ensure accountability to the society and create accountability at all levels.
- x. To build up a general environmental awareness and a community feeling for the locality at the micro level along with the current ecological consciousness on the global issues at the macro level.

GOAL

- Advancement of learning through the use of modern teaching aids.
- Provision of need based higher education to cope with the changing requirements of society.
- Attainment of academic excellence.

The College communicates its vision, mission, and objectives to the various internal and external stakeholders through the College prospectus, College website, the mobile application of the College, and other media forms. Outreach programmes are also organized to communicate the policy and goal of the institution to various stakeholders of the community. Local schools are encouraged to send their students to our College, whereby they can familiarize themselves with the vision of the institution. Various Government agencies are requested to organize socially relevant programmes in partnership with the College, thus ensuring the spread of the institutional objectives to a larger populace.

1.1.2 How does the institution develop and deploy action plans for effective implementation of the curriculum? Give details of the process and substantiate through specific example(s).

- For the undergraduate programmes under Science and Arts faculty the institution follows the curriculum set by the affiliating university i.e. West Bengal State University. On the other hand, in Post Graduate programmes the departments have academic autonomy to design and implement their course curriculum based on societal needs and to cope with the cutting edge technology.
- The UG courses are modelled on a 3-tier (1+1+1) examination pattern as fixed by the University. The College follows such directives in preparing academic calendars and conducting its UG classes. Apart from the formal Test Examination for screening of students before they are sent-up in University examination, the Departments have their own mechanism for continuous evaluation of students through regular class tests, students' seminars, quiz, surprise test etc.
- The students are asked to consult the study material fixed by the University for specific courses and the advanced learners are provided with additional reference materials. Use of internet and self-learning methods are promoted. Practical and

demonstrative teaching is undertaken in practical based subjects. Field based subjects organize educational excursions.

- Teachers recommend the use of e-resources in every subjects. E-classroom facilities have been established to augment the qualitative output. Often lectures are delivered with power point presentations. Visual screening and audio sessions are arranged whenever necessary for every subjects. Humanities departments screen movies related to the subject matter, in order to generate greater interest among students.
- All faculty members are requested to submit a lesson plan to their respective HoD, who in turn are entrusted to review course completion targets on regular basis.
- Students are inspired to contribute to the departmental wall magazines and College journal. Participation of students in classroom seminars are ensured. They are also encouraged to participate in seminars and conferences and other co-curricular competitions which are held outside the college. Remedial classes are held beyond the stipulated class routine. Special classes are arranged for slow learners.
- For the postgraduate programme, the departments follow a semester system where revision of syllabus and introduction of new specialized disciplines are done on a regular basis. Eminent faculties are associated with the College in the capacity of Guest Lecturer for delivering lectures on different special papers of PG programme. Special seminars are arranged to create an environment of interactive learning. Special laboratory facilities are provided to PG students to introduce research orientation among them.

1.1.3 What type of support (procedural and practical) do the teachers receive (from the University and/or institution) for effectively translating the curriculum and improving teaching practices?

The University organizes workshops where teachers are invited to discuss the propositions regarding curricula changes, its applicability and other teaching processes, evaluation patterns etc. Teachers are also regularly involved in the academic process of the University through functions like paper-setting, moderation, script evaluation, acting as Head Examiners etc. They can exchange and share opinion among their peer groups through such forums.

The institution implements the recommendation of the teaching faculty regarding academic and infrastructural facilities. Grants for books and equipment are utilized in consultation with

the teachers. State-of-the-art laboratories are set up to meet curriculum related needs of PG programmes. Library facilities are augmented with newer additions of books, e-journals, e-journals etc. E-classroom facilities, along with laptop and desktop facilities are provided to the teachers and the students. Other infrastructural and logistical support is made available by the institution for the teachers.

1.1.4 Specify the initiatives taken up or contribution made by the institution for effective curriculum delivery and transaction on the Curriculum provided by the affiliating University or other statutory agency.

- The physical infrastructure of the institution has been augmented to improve the curriculum delivery system. For example, power outage was a frequent phenomenon in the institution few years ago. Now the College has installed a silent auto-start pollution free DG Set of 50kVA capacity. Again, the Central Library has been refurbished and been made air-conditioned, so that students can utilize the facility under optimal environment.
- The College is careful in improving the academic environment. Seminars and special lectures are a regular feature in the academic calendar. Supplementary facilities such as career counselling, yoga, community orientation etc. are provided to the students.
- Logistical support for teaching-learning and research facilities are provided by the institution. E-classrooms have been set up to enable lectures through power-point.
- Remedial classes and tutorials are arranged for the slow learners. Advanced students are mentored properly so that they can utilize the opportunities ahead of them.
- Computer courses are imparted to the UG first year students so that the digital divide can be breached. Self-learning methods and career oriented soft-skills are also offered to the students, so that they can cope with their future progression.

On the other hand, the PG curricula are distinctive in nature and have very scientific inter-related theory-practical structure. The detail initiatives undertaken by the PG Departments are being chronicled below.

- **Post Graduate Department of Bengali:** The P.G. syllabus of Bengali continues to maintain its strength in traditional areas like History of Literature, Medieval Bengali literature, 19th century study, Modern literature, Drama, and Fiction. Students are exposed simultaneously to aesthetics, philosophy, linguistic, and comparative

literature. The thrust area includes: - Tagore literature (Rabindra Sahitya) and Modern Fiction (Katha sahitya). The research activities of the Department are a corollary of the subjects offered at PG level. Term paper, presentation and a dissertation in the final semester form part of the core curriculum, encouraging research orientation and critical writing skills. Department organizes special talk on various area of syllabus. PG syllabus is being remodeled every fourth year.

- **Post Graduate Department of Physics:** The syllabus for Physics was substantially revised in 2012 in the light of the experience gained from implementing the course curriculum in previous years and from the formal and informal feedback gained from students, teachers and employers. Further revision was undertaken to introduce project work in the last semester. Among notable offerings of the department, an advanced course on Electronics forms a special paper. There is also a plan to offer High Energy Physics from the next academic session. The curricula are shuffled and modified when there is a need.
- **Post Graduate Department of Zoology:** In this department there is scope to inculcate critical thinking and independent research orientation. A set of two term papers, seminar lecture and a dissertation paper is part of the core curricula. Field study, lab and industry visit etc. are also part of different special papers.
- **Post Graduate Department of Botany:** The syllabus of all papers of this department is remodeled biennially in consultation with the external members of PG Board of Studies. Formal and informal feedback from students and teachers are also considered in this regard. For example, Microbiology was introduced as a special paper in 2012. The thrust areas are: Taxonomy of Angiosperms and Biosystematics, Ecology, Plant Physiology, Biochemistry and Molecular Biology, Mycology and Plant pathology, Microbiology and Cytology, Genetics and Genomics. Field studies etc. are also part of different special papers. There is a dissertation paper which encourages research and critical writing skills and ensures career progression of the pupils. Students get the exposure of working with sophisticated instruments like Gel Documentation System, Thermocycler, UV-Visible spectrophotometer, Cold Centrifuge, DNA and Protein gel electrophoresis system, lyophilizer etc. on regular basis.

1.1.5 How does the institution network and interact with beneficiaries such as industry, research bodies and the university in effective operationalization of the curriculum?

The faculties of different Departments have formal and informal networks and academic linkages with Universities and Research Institutions of national and international repute. These networks are utilized in publishing papers, supervising PhD students, organizing student interactions etc. They also actively participate in the various interactive sessions, workshops and seminars organized by such academic bodies.

Table 1.1: List of faculty members supervising scholars in collaboration with other Institutes

Name of the Faculty of the College	Name of Research Scholar	Affiliating Institute/ Joint Supervisor	Remarks
Dr. Madhumita Manna	Dr. Sanchita Datta	Jadavpur University, Prof. R. Bhar	PhD Degree awarded in July 2014
	Supriya Khanra	Jadavpur University, Prof. Parimal Karmakar	Submitted Thesis on 27.02.15
	Sangita Lahiry	Jadavpur University	Cleared Ret Exam, held on 05.08.14
	Piyali Das, MBBS	West Bengal University of Health Science	Registered for PhD
Dr. Debajyoti Chakrabarty	Dr. Himadri Pal	Singhanian University, Rajasthan	PhD degree awarded on 05.03.2014.
Dr. Sanjoy Podder	Shampa Dutta	University of Calcutta	Acting as Associate Supervisor
Dr. Paramita Nandy (Datta)	Dr. Nirjhar Dasgupta	University of Kalyani/ Prof. Chandan Sengupta	PhD degree awarded in 2014
Dr. Nirmalendu Das	Protik Chowdhury	North Bengal University/ Prof Biswanath Chakraborty	PhD Programme
Prof. Pradip Mukherjee	Dr. Anirban Saha	University of Calcutta	He was a CSIR fellow
	Dr. Biswajit Pal	University of Calcutta, Prof. Rabin Banerjee	He was a CSIR fellow
	Arpita Mitra	University of Calcutta, Prof. Rabin Banerjee	
Dr. Rajnarayan Gupta	Dr. Prosenjit Ghosh	Jadavpur University	PhD degree awarded in 2012

- Dr. Madhumita Manna has research collaboration with Gauhati Medical College, Assam, National Medical College, Kolkata, Saha Institute of Nuclear Physics, Kolkata, Indian Institute of Chemical Biology, Kolkata, UGC-DAE Kolkata center.
- Dr. Sanjay Poddar has collaboration with Presidency University and University of Calcutta.
- Dr. Paramita Nandy (Dutta) has had academic collaboration with the biological sciences division of Indian Statistical Institute, Kolkata.

- Dr. Nirmalendu Das has completed a DST project jointly in collaboration with Dr. Biswadeb Bishayi, Professor, Department of Human Physiology, University of Calcutta. Additionally, he has published papers in collaboration with Professor Chandan Sengupta, Department of Botany, University of Kalyani and Dr. Tanima Saha, Assistant Professor, Department of Bio-technology, University of Kalyani. He has collaborative work with Uttar Banga Krishi Vishwavidyalaya (UVKV) and IISER.
- Dr. Subhra Talai is undertaking research activities and publishing papers in collaboration with Dr. Mousumi Poddar Sarkar, Associate Professor, Department of Botany, University of Calcutta. She has also completed a 'Short Term Visit of Young Faculty Member to reputed institutions of UGC, 12th Plan – at Department of Botany, University of Calcutta between 24th September and 11th November 2014.

Certain departments also organize industry visits for its final year students to provide them proper exposure. The Career Counselling cell engages persons from industry and other professional bodies to develop students with soft skills. Career oriented courses are run here.

1.1.6 What are the contributions of the institution and/or its staff members to the development of the curriculum by the University? (Number of staff members/departments represented on the Board of Studies, student feedback, teacher feedback, stake holder feedback provided, specific suggestions etc.

A number of representatives from this institution have served in the UG Board of Studies of West Bengal State University. Details of their tenures are listed below.

Table 1.2: Select faculty members who have served as member in Board of Studies of WBSU

Name of the teacher	Discipline
Dr. Pijush Kanti Saha	Zoology
Dr. Tarun Kumar Mondal	Bengali
Dr. Tapashree Chattopadhyay	Bengali
Dr. Sanat Kumar Saha	Chemistry
Dr. Debashree Dutta	Philosophy
Tamonash Chakraborty	Sanskrit
Md. Abdur Rafik Sardar	Bengali
Dr. Gurudas Ghosh	Mathematics
Dr. Narayan Saha	History

Apart from these formal involvements, the departments also send representatives to the curriculum oriented workshops organized by the University. In this regard, teachers of various Departments participated in comprehensive workshops organized by West Bengal State University in 2012-13 academic session, to finalize the course module, model questions, reference materials etc. of different UG courses.

Formal and informal feedback from various stakeholders such as the students, teachers, parents and other peers on implementation of course curriculum, examination pattern etc. are analyzed by the Departments and useful suggestions are assimilated and are put forward to the respective BoS of the University for appropriation of the curriculum.

Teachers are also regularly involved in the teaching cum assessment process of the University through functions like paper-setting, moderation, script evaluation, acting as Head Examiners etc. Through such indirect and informal process, they do propose to the members of Board of Studies certain incremental changes in the syllabus or examination pattern.

For PG departments, all teachers of the department are member of the PG Board of Studies and they contribute substantially in preparation of course curriculum.

1.1.7 Does the institution develop curriculum for any of the courses offered (other than those under the purview of the affiliating university) by it? If ‘yes’, give details on the process (‘Needs Assessment’, design, development and planning) and the courses for which the curriculum has been developed.

The options for curriculum development for courses outside the purview of the affiliating University are yet to be explored by the College.

1.1.8 How does institution analyze/ensure that the stated objectives of curriculum are achieved in the course of implementation?

Results of students are analyzed by the Result Review committee and placed in the Teachers’ Council meetings. Departmental meetings are held with respect to class tests or unit tests, and for ‘Test Examination’ Teachers’ Council meetings are utilized to review the pattern of examination results. Faculties of every department also carefully study the students’ feedback

to assess their own performances. The slow learners are identified and are provided with remedial coaching. The teachers also actively contact the guardians about the academic progress of their ward. Incentives are arranged by the institution in the form of tuition fee-waiver scheme, various types of scholarships etc. so as to encourage the under privileged students to continue their studies. The institution also takes care to maintain a healthy teacher-student ratio and to minimize the unit cost of education.

1.2 Academic Flexibility

1.2.1 Specifying the goals and objectives give details of the certificate/diploma/skill development courses etc., offered by the institution.

The College has a formal structure of teaching-learning-evaluation process, which corresponds to the model patterns set by the affiliating University. However, the College is fully aware that the students need to imbibe certain professional and life-skills to cope with the demands of their later career. Therefore, the College has undertaken few measures.

- UG first year students of this College undertake a compulsory computer course, where the College has partnered with the local Centre of National Institute of Electronics & Information Technology (NIELIT), an autonomous body under the Department of Information Technology, Govt. of India. Provision for such classes were incorporated within the class-routine of the under-graduate first year students, thus ensuring digital empowerment.
- ‘Entry-in-Services programme’, under UGC XIIth Plan for SC/ST/OBC (Non-Creamy Layer) and Minority candidates who have completed Bachelor’s Degree/H.S or Madhyamik, is one endeavor which has run successfully in this College. Many teachers have imparted professional and life-skills to many aspirants from weaker sections of the society. Till date, nearly 330 career aspirants have enrolled in this programme meant to impart job-oriented coaching. Thus the College is active in catering to the placement related needs of the larger sections of its students.
- The college has a unit of Netaji Subhas Open University which caters to the adult and continuing education. It offers 9 UG level course programmes and 10 PG level course programmes. Along with these it also offers Bachelor degree and Master degree in Library and Information Science (BLIS and MLIS).

Table 1.3: Data for UGC Entry-in-Services Programme (October, 2012 to September, 2013)

Coaching for the entry in Services	No. of Students Enrolled				Teachers engaged	No. of Contact Hours	No. of test taken	No. of typed material given to students	Results of Examinations
	SC	ST	OBC (NCL)	Minority					
Clerical and P.O, Rail, Bank, P.S.C, LIC, Staff Selection Commission	86	36	55	60	5	300	5	300	More than 12* (twelve) students got their job from this coaching center.
School Service Commission	25	01	24	36	6	244	5	250	
Total	111	37	79	96	11	544	10	550	* As per available information. This number may be higher.

1.2.2 Does the institution offer programmes that facilitate twinning/dual degree? If ‘yes’, give details.

Currently the college does not offer such dual degree at the PG or UG level, as the stipulations of West Bengal State University is yet to accommodate such dual degree. However, on the research front the College is one of the collaborating institutes along with Gauhati Medical College, Assam and Calcutta National Medical College, Kolkata in the project titled “Direct diagnosis and characterization of the causal agents of Kala-azar from North-East and Eastern region of India by molecular methods”, funded by Department of Biotechnology, Govt. of India [DBT TWINNING Programme for NE]. In this regard, a Memorandum of Agreement between Department of Bio-technology, Ministry of Science and Technology, Government of India and the College was made on 06.03.2013. Thus the scope for exchange of research scholars under this twinning programme is ensured.

1.2.3 Give details on the various institutional provisions with reference to academic flexibility and how it has been helpful to students in terms of skills development, academic mobility, progression to higher studies and improved potential for employability. Issues may cover the following and beyond:

- Range of Core/Elective options offered by the University and those opted by the college

The Core subjects that are taught at the UG level are:

- ✓ English, Bengali, Sanskrit, History, Philosophy, Political Science in B.A. (Honours).
- ✓ Physics, Chemistry, Mathematics, Botany, Zoology, Economics and Geography in B.Sc. (Honours).

Table 1.4: Combination of subsidiary subject offered with Honours subjects

<i>Honours Subject</i>	<i>Combination of subsidiary subjects allowed (SET-1)</i>	<i>Combination of subsidiary subjects allowed (SET-2)</i>
Bengali	Sanskrit/Philosophy/English	History/Political Science
English	Bengali/Philosophy/Economics	History/Political Science
Sanskrit	Bengali/Philosophy	History/Political Science
History	English/Bengali/Economics	Philosophy/Political Science
Philosophy	English/Bengali/Sanskrit	History/Political Science
Political Science	English/Bengali/Economics	Philosophy/History
Physics	Chemistry	Mathematics
Chemistry	Physics	Mathematics
Mathematics	Physics	Chemistry
Botany	Zoology	Chemistry
Zoology	Botany	Chemistry
Geography	Economics	Mathematics/Political Science
Economics	Mathematics	Physics/Political Science

In addition, the college offers B.A. and B.Sc. General Degree Courses. The subjects are:

<i>Course</i>	<i>Subjects offered (Any Three)</i>
B.A. General	1. Political Science, 2. Philosophy, 3. History, 4. Bengali or Economics, 5. English or Sanskrit.
B.Sc. General	1. Physics, 2. Chemistry, 3. Mathematics.

- In all UG courses, Environmental Science is included as a compulsory subject.

The college also runs semester based PG courses in four subjects, i.e. Bengali, Physics, Zoology and Botany where the College has academic autonomy. For the PG course, students are admitted on a 60:40 ratio as per the orders of the Government, whereby 60% seats are earmarked for UG students of different colleges of West Bengal State University and are filled on merit basis. Rest of the 40% seats are open and those are filled up through admission tests conducted by respective Departments. Therefore progression to higher studies and academic mobility for the UG students of this College is hereby ensured.

There is flexibility in designing the curriculum in PG courses. New and upcoming fields of study are included as special papers. For example, Microbiology is being offered as a special paper to the PG students of Botany on popular demand.

- Choice Based Credit System and range of subject options – The present system of teaching-learning-evaluation is trying to explore the choice based credit system (CBCS). IQAC of the College is consulting the ‘UGC Guidelines on Choice Based Credit System’ in all earnestness, to introduce the CBCS in near future. However, such efforts need to be elevated to the realm of inter-disciplinary studies and the guidance and approval of the University is important in this regard.
- Courses offered in modular form – For the UG level, the option of offering courses in modular form is dependent on the patterns fixed by the University. Syllabus of some of the UG departments do reflect a pattern whereby the papers are sub-divided in several units. But there is lack of uniformity in the system and the same is communicated by the Departments to the University. On the other hand, the PG syllabi are in modular form.
- Credit transfer and accumulation facility- This option of flexibility is yet to be offered under West Bengal State University, hence currently the College is not in a position to introduce the same. However, this system of mobility and flexibility is under active consideration of the College and proposals are being sent to the University in this regard.
- Lateral and vertical mobility within and across programmes and Course – Vertical mobility of the UG students of four departments (Bengali, Botany, Physics and Zoology) are taken care of by the institution itself, as these Departments offer PG courses. Soon

new PG course in Chemistry is going to be introduced, increasing the scope for such vertical mobility. Lateral mobility is an aspect which is under the consideration of the College. However, active cooperation from the University will be required to implement the same.

- Enrichment courses – There are several ways in which value orientation, soft skills and life-skills are being imparted to the students of the College. Establishing active links with the society through outreach programmes help the students gain self-sufficiency.
 - ✓ Compulsory computer courses for UG first year students have helped to breach the digital divide. Along with this, several career counselling and group-discussion sessions have helped the students to strengthen their soft-skills.
 - ✓ Seminar on Human rights was organized on 15th December, 2014 and the students participated and presented papers on human rights to mark this occasion. Also one day seminar on protection of child rights was organized in March, 2015. These programmes created a general awareness on the rights discourse among the students.
 - ✓ Special programmes were organized to commemorate birth anniversary of eminent personalities such as Swami Vivekananda, Sardar Vallabhbai Patel, Dr. B.R. Ambedkar. Also special and interactive sessions related to ‘Ethics’ have been arranged to promote value orientation among the students in particular.
 - ✓ An awareness programme on “The Problems of Inclusion in the Higher Education for Persons with Disabilities” was organized on 21st September 2012. Again, on 27th March 2015, a short seminar was arranged on “The Role of Mass Media in Creating Social Awareness for the Differently Able”. These have helped to foment a strong bond on the lines of institutional social responsibility.

1.2.4 Does the institution offer self-financed programmes? If ‘yes’, list them and indicate how they differ from other programmes, with reference to admission, curriculum, fee structure, teacher qualification, salary etc.

This being a Government College under the direct stewardship of the Higher Education Department, Govt. of West Bengal, self-financed programmes are outside our purview.

1.2.5. Does the college provide additional skill oriented programmes, relevant to regional and global employment markets? If ‘yes’ provide details of such programme and the beneficiaries.

The college has successfully conducted UGC ‘Entry-in-Service programme’ to impart job-oriented coaching to the meritorious but under privileged students. In consonance with the mandate for inclusive education, efforts of the College to ensure equity and social harmony can count as a small contribution. The beneficiaries of such programme are as follows:

Table 1.5: List of Successful Candidates from ‘UGC Entry-in-Service Programme’

Name	Category	Gender	Remarks
Suparna Roy	SC	Female	Selected IBPS CWE Clerkship Exam
Krishanu Mondal	SC	Male	Selected IBPS CWE Clerkship Exam
Debasis Sarkar	SC	Male	Selected for interview of Multi-Tasking staff
Piyali Roy	SC	Female	Selected as Assistant Teacher
Joydev Saha	SC	Male	Selected as Assistant Teacher
Samir Halder	SC	Male	Selected as Assistant Teacher
Krishanu Mondal	SC	Male	Selected as Clerk in High School
Debasis Sarkar	SC	Male	Selected for interview of Calcutta Police
Rathin Jana	SC	Male	Selected as Primary School Teacher
Suraj Halder	SC	Male	Selected as Primary School Teacher
Tamanna Barui	SC	Female	Selected in Central Govt. Service
Sahana Roy	SC	Female	Selected in Indian Railways

Additionally, the Career Counselling Cell of the College has tried to bridge the gap between campus and industry in a vigorous way. Career fairs, counselling sessions, group discussion, skill development programmes etc. have organized to build a professional outlook among the students. Sessions with employers from the industry have improved their job prospect.

Last but not the least, the compulsory Computer Course for UG first year students, which the institution has instituted in partnership with NIELIT, a recognized agency of Govt. of India, in tune with the ‘Digital India 2020’ campaign, which aims to empower the students through computer skills and equip them for global employment markets.

1.2.6. Does the University provide for the flexibility of combining the conventional face-to-face and Distance Mode of Education for students to choose the courses/combination of their choice” If ‘yes’, how does the institution take advantage of such provision for the benefit of students?

Under the existing system, the university does not provide such opportunity of combining face-to-face mode with distance mode of learning. However, the College fully appreciates the potential for such flexibility in courses. Through an on-campus study center of Netaji Subhash Open University, the need for distance mode of education has been handled efficiently. It offers the window for flexibility in course alternatives through disciplines like Library and Information System (BLIS and MLIS), Social Work (MSW) etc.

1.3. CURRICULUM ENRICHMENT

1.3.1. Describe the efforts made by the institution to supplement the University’s Curriculum to ensure that the academic programmes and Institution’s goals and objectives are integrated?

The vision and mission statements of the institution reflect a broad mandate for inclusive education. To fulfill this objective, the College has endeavored to ensure justice at the administrative level and integrity in academic aspects. Various value oriented programmes and community outreach programmes are organized at regular interval, to supplement the University curriculum. Efforts at promotion of eco-friendly good practices, sustenance of rights discourse, democratic consensus building through Students’ forums etc. – are necessary knowledge inputs outside the purview of regular curriculum. Students’ seminars, debate, quiz, sports and other such co-curricular aspects create a milieu for holistic education.

While staying within the broad contours of the curriculum, teachers try to ensure that students remain aware about the recent developments in the subject as well as in the society. At the PG level the institution has academic autonomy and the syllabi of the PG departments emphasize on development of research and analytical aptitude of the students. The PG syllabi are modified regularly in order to increase the employability quotient of the students.

1.3.2. What are the efforts made by the institution to enrich and organize the curriculum to enhance the experiences of the students so as to cope with the needs of the dynamic employment market?

Apart from the activities through the Career Counselling Cell, students are also groomed by the teachers on a daily basis. The teachers lay stress on critical thinking and encourage the students to come up with original ideas. In the disciplines of social science the students are encouraged to understand and analyze current socio economic issues.

The students are stimulated to strengthen their soft skills and communicative skills. The career options available with the discipline are outlined by individual departments at the very outset of the academic session. Various career oriented magazines and journals are subscribed in the College library for the benefit of the students.

The PG departments maintain contacts with the industry and research institutions. The syllabi of all the PG departments are regularly updated and new specialized disciplines are introduced on a regular basis to suit the changing needs of the dynamic job market.



***Photograph 1.1:** Noted educationist Prof. Samir K. Brahmachari providing valuable inputs in an interactive session with the Teachers of the College.*

1.3.3. Enumerate the efforts made by the institution to integrate the cross cutting issues such as Gender, Climate Change, Environmental Education, Human Rights, ICT etc., into the curriculum?

- Scope for integrating many of these cross-cutting issues is available in the course curriculum of various disciplines. Themes related to Gender studies and Human

Rights are specifically taught under disciplines like Political Science, English and History. Climate change and disaster management are extensively dealt with by the students and teachers of Geography. Environmental Education falls within the realm of Zoology and Botany. Use of ICT in curriculum delivery is practiced by all the Departments. Apart from these curriculum oriented practices, there has also been several measures to highlight these cross-cutting issues.

- Gender is often understood as a constructed identity. To make the on-campus and off-campus activities gender-inclusive and gender-neutral, the College has taken certain initiatives. Seminars have been organized in collaboration with 'Sappho for Equality', to promote gender-neutrality. Again, the Internal Complaints Committee has been active to promote gender sensitivity. A national seminar on 'Women and Literature' was organized to disseminate a gendered narrative on literary aspects.
- To sensitize the pupils about the perils of climate change, documentary film shows relevant to the theme have been screened. Also awareness drives on Uttarakhand flash-flood have been arranged by teachers of the Geography department.
- The College has an Environment Protection and Nature Cell and carries out several initiatives to spread eco-consciousness among several stakeholders through the Cell. . Lectures have been organized to increase awareness on water conservation through rainwater harvesting. Environmental Science has been an integral part of the UG syllabi for all subjects.
- Awareness programme on Human Rights has been organized on occasion of Human Rights day. Students' seminar has also been held on this occasion. Interactive programmes on 'Protection of Child Rights' have been arranged by the College. In general, the rights discourse is championed through institutional efforts.
- The Annex building has been made Wi-Fi enabled and implementation of Campus-Wi-Fi network is on the anvil. On academic fronts, e-class rooms have been set up. Internet facilities have been extended to all the departments and the Central Library. Also sophisticated software like 21st century, GEOMATICA, Q-GIS, MATLAB, OCTAVE etc. are used in various Departments. Overall, the use of ICT for the teaching-learning process is encouraged by College.

1.3.4. What are the various value-added courses/enrichment programmes offered to ensure holistic development of students?

- **Moral and ethical values:** Value education, Seminar on communal harmony, rural developments etc. are held regularly.
- **Employable and life skills:** Under UGC Entry-in-Services programme, job oriented courses for competitive examinations like clerical and P.O. for Rail, Bank, U.P.S.C, P.S.C, LIC, Staff Selection Commission, School Service Commission etc. have been arranged for the students.
- **Better career options:** The Career Counselling Cells organize workshops to make the students aware of the various career options available to them.
- **Community orientation:** NSS activities, Organization of Seminars & College fest, Freshers' welcome, Saraswati Puja, Blood donation camps are held in every year. Health awareness programmes like Thalassemia screening and talks on health risks are held.

1.3.5. Citing a few examples enumerate on the extent of use of the feedback from stakeholders in enriching the curriculum?

Regular student's feedbacks are taken and teachers evaluate themselves on the basis of those feedbacks. However, the scope for curriculum enrichment at UG level is limited. Yet, certain methodical adjustments in curriculum implementation have been introduced as per the feedback of the students. Introduction of inventive aspects like debates, film screening, students' seminars etc. have increased the academic interest of students.

Formal and informal feedback from various stakeholders such as the students, teachers, parents and other peers on implementation of course curriculum, examination pattern etc. are analyzed by the Departments and useful suggestions are assimilated and are put forward to the respective BoS of the University. Teachers are also regularly involved in the teaching cum assessment process of the University through various functions. Through such indirect and informal process, they do propose to the members of Board of Studies certain incremental changes in the syllabus or examination pattern.

The BoS of the PG departments regularly update their syllabus and introduce new courses on the basis of feedback received from the students and teachers. For example, Microbiology as a special paper was introduced in PG department of Botany on the basis of popular demand. Again, the College seeks feedback from the parents to judge the effectiveness on the teaching-learning-evaluation process and necessary adjustments are accommodated.

1.3.6. How does the institution monitor and evaluate the quality of its enrichment programmes?

The IQAC and Governing body are always vigilant about the sustenance of quality of the different enrichment programmes and try to accommodate various suggestions for improvement. Community oriented activities are organized regularly and these programmes are useful in disseminating the quality of enrichment.

1.4 FEEDBACK SYSTEM**1.4.1. What are the contributions of the institution in the design and development of the curriculum prepared by the University?**

The autonomy to design syllabus at the undergraduate level is currently out of the purview of the College. However, teachers of the college have always responded positively to any call for change in the syllabus. The teachers regularly interact with the Board of Studies of the University and provide their suggestions regarding design and development of the curriculum. Some of the teachers are also members of the Board of Studies.

The teachers of the college also act as paper setters, moderators and examiners in University examination. This informal network acts as a platform for sharing of opinions and suggestions. The Departmental Heads send reports regarding receptivity of students for the UG syllabus and suggests incremental modifications to the same.

The PG Departments have academic autonomy to design the curriculum and examination pattern. The syllabi of the PG departments lay emphasis on development of analytical and research oriented skills among students. The departments also regularly update their syllabus to improve the employment prospects of the students.

1.4.2. Is there a formal mechanism to obtain feedback from students and stakeholders on Curriculum? If 'yes', how is it communicated to the University and made use internally for curriculum enrichment and introducing changes/new programmes?

Students are provided with feedback form to indicate their opinion on the teaching process and methods in the curriculum (kindly see Table 1.6). However, the feedback from the students cannot be directly used by the teachers to modify the UG curriculum. But the teachers try to discuss the suggestions derived from the students in the departmental meetings and intimate the Board of Studies of WBSU regarding pertinent points. On the basis of the suggestions received from the students through formal and informal feedback, the teachers try to improve their mode of teaching and accommodate new contents in their lectures so as to meet the requirements of the students.



Photograph 1.2: A departmental Parent-Teacher Meeting in progress



Photograph 1.3: Seminar on cross-cutting issues such as Protection of Child Rights being organized in the College

1.4.3 How many new programmes/courses were introduced by the institution during the last four years? What was the rationale for introducing new courses/programmes?

PG courses have been introduced in the departments of Bengali, Physics and Zoology. As the West Bengal State University has a limited number of seats and cannot accommodate all the students aspiring for postgraduate studies, PG courses has been introduced in the college in the subjects mentioned above to cater to the increasing demand for higher studies. Also new PG course in Chemistry will be commenced shortly, as the same has been approved by WBSU.

Any other relevant information regarding curricular aspects which the college would like to include.

The college authority is considering the feasibility of introducing short bridge/introductory courses for undergraduate students. These would address specific course requirements, such as language training for Language students, brief introductory courses on Political Science and Philosophy and a Mathematical grooming session for Science students. These courses would supplement the regular courses and would help to eradicate the knowledge gap that exists due to diversity of academic/socio-economic background of students. Both College teachers and external resource persons can be involved to conduct these courses.

Table 1.6: Template of a Teachers' Evaluation Form supplied to the Students

Name of the Teacher (To be filled by the Department)	Dr./Mr./Mrs./Ms.	Dr./Mr./Mrs./Ms.	Dr./Mr./Mrs./Ms.	Dr./Mr./Mrs./Ms.	Dr./Mr./Mrs./Ms.
Areas/Paper(s) Taught by the Teacher (To be filled by the Dept.)					
Attendance of the Teacher					
Punctuality of the Teacher					
Teaching Methods Used (Please use tick mark (√)) a) Lecture Method b) Black board Method c) Electronic Devices	Lecture	Lecture	Lecture	Lecture	Lecture
	Black board	Black board	Black board	Black board	Black board
	Electronic	Electronic	Electronic	Electronic	Electronic
Communication: Lectures are audible and clear					
Percentage of syllabus completed by teacher					
Whether the teacher engages the student in understanding the subject					
Whether the teacher is approachable and available					
Whether the teacher motivates to organize co-curricular activities					

N.B: Students should not write their Name/Roll No. in this feedback form. Use multiple sheets in case the number of teachers is more than five. They are advised to rate in a scale of 'A' to 'E' to indicate their opinion, where **A=100-90, B=90-75, C=75-60, D=60-50, and E=Less than 50.**

CRITERION – II

TEACHING-LEARNING AND EVALUATION

CRITERION II: TEACHING-LEARNING AND EVALUATION**2.1. Student Enrollment and Profile****2.1.1. How does the college ensure publicity and transparency in the admission process?****Publicity**

- In this age of web-connectivity, the college utilizes its website (www.bgc.org.in) to keep the student community informed about regular activities and institutional progress. All information related to admission is disseminated primarily through the college website. The website is regularly updated with information such as -- courses offered, eligibility criteria for admission, intake capacity of each course with category-wise break-up of seats, window for issue and submission of forms, publication of merit list, dates of counselling, fee structure etc. The admission-calendar is provided well in advance to ensure sufficient publicity. These notices are also put up in the college notice board.
- On the other hand, the college prospectus serves as a complete information brochure on admission process and is updated annually. It is also uploaded in the institutional website for convenience of all. The printed copies of the prospectus are circulated to all new applicants. The prospectus provides extensive information regarding courses offered, structure of fees, faculty profile, scholarships and financial support to the economically weaker students etc. It also provides information on other facilities, rules and regulations of our College and the affiliating University. Relevant pictorial documentation of departmental and students' activities are included in the prospectus.
- Prior to every admission season, ready-reckoners of the Admission process is also printed in the form of hand-bills and are distributed freely to interested persons. The College authority also puts up hoarding at strategic location in vernacular language to disseminate vital information regarding admission process.

Transparency

- Completely merit-based admission has been a hallmark of this institution. The College has successfully implemented digitization of the entire admission process within a relatively short span of time. The practice of publishing the entire merit list in the College website was adopted long ago. Thereafter, online submission of forms was added as a

feature from 2013-14 academic session. To fully harness the potential of online admission process the college has implemented mandatory online admission from the current academic session (2015-2016). The applicants are now paying the requisite application fee through a payment gateway portal developed in partnership with State Bank of India.

- A Unique code is assigned to each applicant to ensure subsequent tracking of the said application at every stage. Window for grievance redressal is provided to eliminate any scope for untoward discrepancy.
- The technological side of this online admission process is maintained by a competent agency under the watchful eyes of the institution. Selection of the said agency happens through open tender, inviting technical and financial bids from experienced agencies.

APPLICATION FORM			
		Government of West Bengal BARASAT GOVERNMENT COLLEGE Estd.1950 Affiliated to the West Bengal State University, Accredited by NAAC and DST-FIST awarded 10, K.N.C. Road, Barasat, Kolkata – 700124 Visit: www.bgc.org.in	
Application Date	:	2015-06-30	
Applicant Name * (Name as appears in Marksheet of(10+2))	:	ROHIT MAJUMDER	
Board *	:	W.B.C.H.S.E	Other Board (Please Specify Name)* For list of recognized boards check this link.
Honours Subject I *	:	BENGALI	Honours Subject II : BOTANY
Pass Course (Morning)	:	GENERAL B.SC.	**N.B.-Please Select "Not Applicable" from the Drop-Down if you don't want to apply for more than one or two Subjects.
Passing Year *	:	2015	
boxes marked with * must be filled up			
**N.B.-Candidate can apply for Two Honours Subjects at the Most.			
**N.B.-Candidate should make the entries very carefully. Any deliberate attempt to provide false information will result in cancellation of the application.			
**N.B.-Please check your Eligibility Criteria before filling up the Application Form.			
<input type="button" value="NEXT"/>			

Notice**	Minimum marks required in H.S. or its equivalent exam	
Applied Subject	General/ OBC	SC/ST
BENGALI	50% in Bengali and 50% in Best Four in 10+2 level	40% in Bengali and 40% in Best Four in 10+2 level
BOTANY	55% in Best Four in 10+2 level, 60% in Biology, and Pass marks in Chemistry	40% in Best Four in 10+2 level, 40% in Biology, and Pass marks in Chemistry
GENERAL B.SC.	40% in 10+2 level	35% in 10+2 level

Photograph 2.1: Home Page of Online Admission Portal of College

The screenshot displays the State Bank Group's online fee collection interface. At the top, the 'State Bank Group' logo is visible. Below it, navigation tabs for 'State Bank Collect', 'State Bank MOPS', and 'Pay EPFO' are shown. The main content area is titled 'State Bank Collect' and includes a breadcrumb trail 'You are here: State Bank Collect > State Bank Collect'. A sidebar on the left lists options like 'Reprint Remittance Form' and 'Payment History'. The central form area has a section 'Select from Educational Institutions *' with a dropdown menu currently showing 'BARASAT GOVERNMENT COLLEGE ONLINE ADMISSION'. Below this are 'Submit' and 'Back' buttons. A lightbulb icon and text note that 'Mandatory fields are marked with an asterisk (*)'. The footer contains '© Copyright OnlineSBI' and links for 'Privacy Statement', 'Disclosure', and 'Terms of Use'.

Photograph 2.2: Online fee collection portal developed with State Bank of India

- The Admission Committee of the college is composed annually from within the Teachers' Council. It plays a definite role in framing the admission criteria for both UG and PG courses based on the guidelines of the West Bengal State University. It also undertakes the following measures to ensure that transparency is maintained at every level.
 - ☞ Display of merit lists showing marks obtained in the previous qualifying examination in the college website and notice board. Students' union plays a role in publicizing it.
 - ☞ Admission through open counseling in presence of students, parents, and teachers.
 - ☞ Complaints from stakeholders, if any, are promptly dealt with.

2.1.2. Explain in detail the criteria adopted and process of admission (Ex.(i) merit (ii) common admission test conducted by state agencies and national agencies (iii) combination of merit and entrance test or merit, entrance test and interview (iv) any other programmes of the Institution.

- At the UG level, Admission is conducted solely based on merit. Students are admitted on the basis of marks obtained in the last qualifying examination, i.e (10+2). The Departments have the autonomy to decide the formula for computation of merit score. Usually, aggregate of best four subjects along with marks obtained in the subject applied

for is considered to calculate the merit score. Admission is done strictly following the reservation rules for SC, ST, OBC and physically disabled students.

- For the PG courses, admission tests are conducted in a limited manner. 60% of the PG seats are reserved for students of the home university (WBSU) and the remaining 40% seats are open to graduates of all universities, including the home university. The 60% seats are filled strictly on the basis of marks obtained in the Honours subject. For the 40% seats, results of admission tests and merit are considered to prepare merit list. This practice is in vogue in accordance with the recommendation of the West Bengal State Council of Higher Education (WBSCHC).

Table 2.1: Formula to compute Merit Score for UG Level Admission

Subject	Computation of Merit Score
Bengali	Aggregate of best 4 subjects + Bengali marks
English	Aggregate of best 4 subjects + English marks
Sanskrit	Aggregate of best 4 subjects + Sanskrit marks
History, Philosophy, Political Science	Aggregate of best 4 subjects + Respective Subject/ English marks
Physics	Aggregate of best 4 subjects + Physics marks + Mathematics marks.
Chemistry	Aggregate of best 4 subjects + Chemistry marks
Mathematics	Aggregate of best 4 subjects + Mathematics marks
Botany	Aggregate of best 4 subjects + Biology marks
Zoology	Aggregate of best 4 subjects + Biology marks
Geography	Aggregate of best 4 subjects + Geography marks
Economics	Aggregate of best 4 subjects + Economics / Mathematics marks.
B.A General, B.Sc. General	Aggregate of best 4 subjects

2.1.3 Give the minimum and maximum percentage of marks for admission at entry level for each of the programmes offered by the college and provide a comparison with other colleges of the affiliating university within the city/district.

The minimum and maximum percentage of marks for admission at entry level for each of the programmes is given in the following chart along with comparative data from four colleges of the same city and district. The data has been compiled as per verbal feedback.

Table 2.2: Comparative Chart of Maximum and Minimum intake in the Session 2015-2016

- Barasat Government College (BGC)
- Acharya Prafulla Chandra College (APC)
- Vivekananda College, Madhyamgram (VCM)
- Barasat Evening College (BEC)

Sl. No.	UG Programme	College	Highest Merit Score (Unit in %)	Lowest Merit Score (Unit in %)
1.	Bengali	BGC	91.25	83.5
		APC	84	65
		VCM	80	60
		BEC	82	63
2.	English	BGC	93	86.75
		APC	87	72
		VCM	84	68
		BEC	85	70
3.	Sanskrit	BGC	83.75	77
		APC	80	61
		VCM	--	--
		BEC	--	--
4.	History	BGC	85	77.75
		APC	80	66
		VCM	76	58
		BEC	80	60
5.	Philosophy	BGC	83.25	76.25
		APC	78	64
		VCM	--	--
		BEC	75	62
6.	Political Science	BGC	77.5	72
		APC	75	63
		VCM	--	--
		BEC	72	60
7.	Geography	BGC	94.5	85.75
		APC	90	80
		VCM	85	73
		BEC	87	77
8.	Economics	BGC	79.25	60
		APC	75	60
		VCM	--	--
		BEC	--	--

9.	Physics	BGC	95.5	87
		APC	86	74
		VCM	--	--
		BEC	84	68
10.	Chemistry	BGC	93	86.75
		APC	86	74
		VCM	--	--
		BEC	82	70
11.	Mathematics	BGC	93.75	87
		APC	87	61
		VCM	--	--
		BEC	83	54
12.	Botany	BGC	85.25	77.5
		APC	80	67
		VCM	--	--
		BEC	80	65
13.	Zoology	BGC	89.75	85.5
		APC	85	68
		VCM	--	--
		BEC	82	62
14.	B.A. General	BGC	69	48
		APC	62	44
		VCM	58	40
		BEC	60	41
15.	B.Sc. General	BGC	72	46
		APC	67	43
		VCM	--	--
		BEC	65	40
Sl. No.	PG Programme	College	Highest Percentage (Unit in %)	Lowest Percentage (Unit in %)
1.	Physics	BGC	72	57
		APC	65	53
		VCM	--	--
		BEC	--	--
2.	Botany	BGC	68	56
		APC	--	--
		VCM	--	--
		BEC	--	--
3.	Zoology	BGC	71	58
		APC	--	--
		VCM	--	--
		BEC	--	--

4.	Bengali	BGC	70	58
		APC	--	--
		VCM	--	--
		BEC	--	--

2.1.4 Is there a mechanism in the institution to review the admission process and student profiles annually? If ‘yes’ what is the outcome of such an effort and how has it contributed to the improvement of the process?

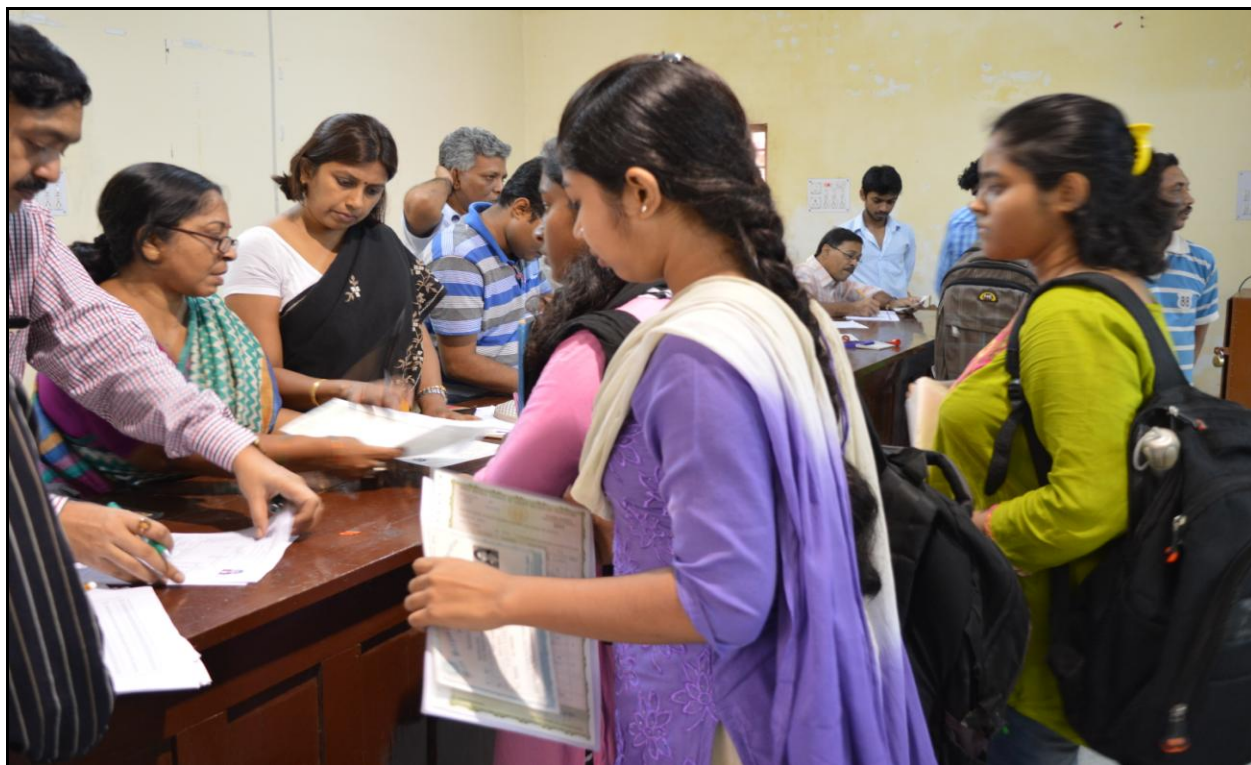
The admission process of the College are under constant review and procedural improvements are being introduced every year to enhance the efficiency of the process. The chronological shift from manual mode of admission process to fully digitized mode is being chronicled.

Year	Method of conducting Admission Process
2009	Manual method of form distribution and manual method of merit list publication.
2010	Online distribution of forms and publication of full merit list in the College website.
2013	Introduction of Online submission of forms with no extra financial burden.
2015	Compulsory online submission of forms along with fee collection mechanism through payment gateway portal of State Bank of India.

The Admission Committee of the College is the systematic mechanism that conducts and reviews the admission process and student profiles annually. Meetings are held frequently among the members to ensure that the framed policy is in consonance with the criteria laid down by the affiliating university as well as with the Government norms. Suggestions and recommendations from all HODs and other stakeholders are considered to review the modus operandi methodically. Student Profiles are reviewed by the Departments and duly communicated to the Admission Committee for counseling. Incremental modifications in cut-off marks are effected after reviewing the profile of the applicants. However, efforts are made to not disturb the mandate for inclusive education.



Photograph 2.3: Teachers and Non-Teaching staff working together during Admission process



Photograph 2.4: Credentials of Applicants being verified at the Admission Desk

2.1.5. Reflecting on the strategies adopted to increase/improve access for following categories of students, enumerate on how the admission policy of the institution and its student profiles demonstrate/reflect the National commitment to diversity and inclusion

This being a Government College, the admission policy is fully centered on the policy documents issued by the Government. Hence, the institution is fully committed to maintain the diversity in the student profile and uphold the mandate for inclusive education.

SC/ST:

22% seats are reserved for the SC and 6% students are reserved for the ST students as per West Bengal Government reservation policy. North 24 Parganas has 20.60% SC population and 2.22% ST population, as per the data published by the Minority Affairs Department. However, the number of SC and ST students admitted in the College are higher than this rate. A profile of the SC and ST students in the last three sessions are:

Table 2.3: Status of SC, ST Students

Academic Session	Total no. of registered students	Total no. of SC students	Ratio of SC students (Unit in %)	Total no. of ST students	Ratio of ST students (Unit in %)
2012-2013	970	277	28.56	27	2.78
2013-2014	1027	292	28.43	23	2.23
2014-2015	987	274	27.76	22	2.22

OBC

In consonance with relevant Govt. orders the College has initiated the gradual process for reserving 10% seats for OBC-A category and 7% seats for OBC-B category in a phased manner since 2013-14 session culminating in the 2019-20 academic session. The roadmap for implementing the mandate of OBC reservation is being attached in the following table.

Table 2.4: Roadmap for Implementing OBC Reservation by increasing seats incrementally

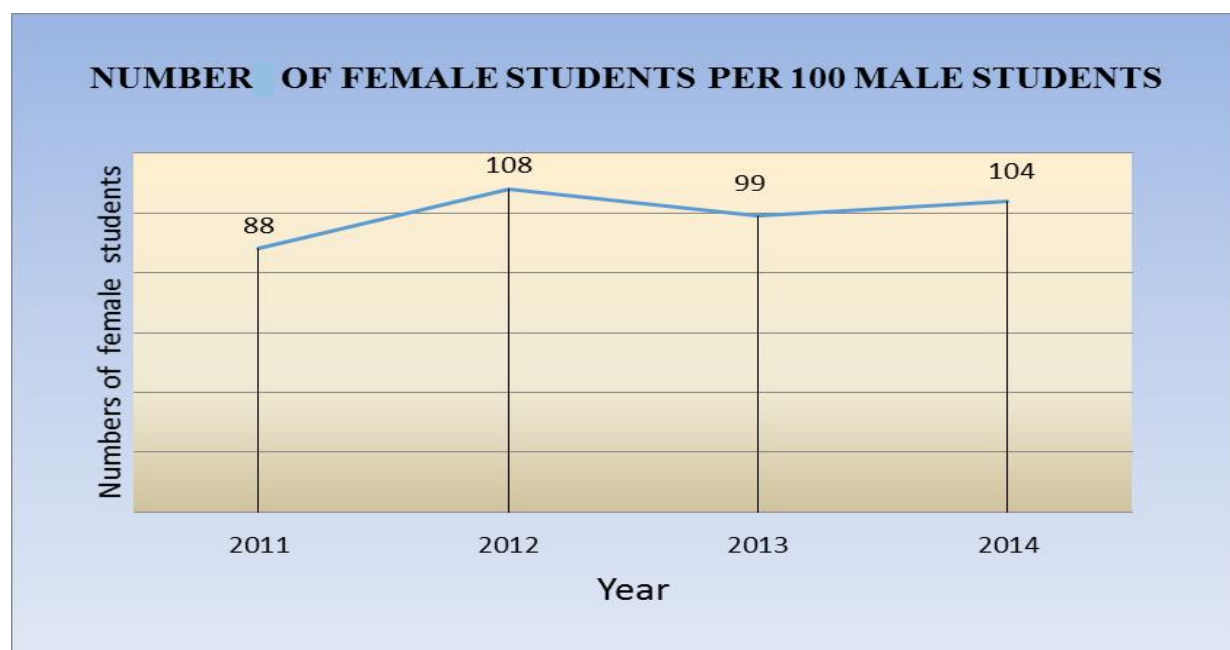
Subject with Seat Break-up	Year 2013-14	Year 2014-15	Year 2015-16	Year 2016-17	Year 2017-18	Year 2018-19	Year 2019-20
	Initial Intake						
English Bengali Philosophy History Political Science	Total-72	Total- 76	Total- 80	Total- 84	Total- 88	Total- 92	Total- 97
	General- 52	General- 52	General- 52	General- 52	General- 52	General- 52	General- 53
	SC- 16	SC (22%)- 17	SC (22%)- 18	SC (22%)- 18	SC (22%)- 19	SC (22%)- 20	SC (22%)- 21
	ST- 04	ST(6%)- 05	ST(6%)- 05	ST(6%)- 05	ST(6%)- 05	ST(6%)- 06	ST(6%)- 06
	PH-3% Horizontal	PH-3% Horizontal	PH-3% Horizontal	PH-3% Horizontal	PH-3% Horizontal	PH-3% Horizontal	PH-3% Horizontal
	OBC-A- 0	OBC-A- 01 (ad hoc)	OBC-A- 03 (ad hoc)	OBC-A- 05 (ad hoc)	OBC-A- 07 (ad hoc)	OBC-A- 09 (ad hoc)	OBC-A(10%)- 10
	OBC-B- 0	OBC-B- 01 (ad hoc)	OBC-B- 02 (ad hoc)	OBC-B- 04 (ad hoc)	OBC-B- 05 (ad hoc)	OBC-B(7%)- 07	OBC-B(7%)- 07
Sanskrit Botany Zoology Economics	Total-43	Total- 46	Total- 47	Total- 49	Total- 51	Total- 54	Total- 57
	General- 31	General- 31	General- 31	General- 31	General- 31	General- 31	General- 31
	SC- 09	SC (22%)- 10	SC (22%)- 10	SC (22%)- 11	SC (22%)- 11	SC (22%)- 12	SC (22%)- 13
	ST- 03	ST(6%)- 03	ST(6%)- 03	ST(6%)- 03	ST(6%)- 03	ST(6%)- 03	ST(6%)- 03
	PH-3% Horizontal	PH-3% Horizontal	PH-3% Horizontal	PH-3% Horizontal	PH-3% Horizontal	PH-3% Horizontal	PH-3% Horizontal
	OBC-A- 0	OBC-A- 01 (ad hoc)	OBC-A- 02 (ad hoc)	OBC-A- 03 (ad hoc)	OBC-A- 04 (ad hoc)	OBC-A- 05 (ad hoc)	OBC-A(10%)- 06
	OBC-B- 0	OBC-B- 01 (ad hoc)	OBC-B- 01 (ad hoc)	OBC-B- 01 (ad hoc)	OBC-B- 02 (ad hoc)	OBC-B- 03 (ad hoc)	OBC-B(7%)- 04
Physics	Total-50	Total- 53	Total- 56	Total- 59	Total- 62	Total- 65	Total- 68
	General- 36	General- 36	General- 36	General- 36	General- 36	General- 36	General- 37
	SC- 11	SC (22%)- 12	SC (22%)- 12	SC (22%)- 13	SC (22%)- 14	SC (22%)- 14	SC (22%)- 15
	ST- 03	ST(6%)- 03	ST(6%)- 03	ST(6%)- 04	ST(6%)- 04	ST(6%)- 04	ST(6%)- 04
	PH-3% Horizontal	PH-3% Horizontal	PH-3% Horizontal	PH-3% Horizontal	PH-3% Horizontal	PH-3% Horizontal	PH-3% Horizontal
	OBC-A- 0	OBC-A- 01 (ad hoc)	OBC-A- 03 (ad hoc)	OBC-A- 04 (ad hoc)	OBC-A- 05 (ad hoc)	OBC-A(10%)- 07	OBC-A(10%)- 07
	OBC-B- 0	OBC-B- 01 (ad hoc)	OBC-B- 02 (ad hoc)	OBC-B- 02 (ad hoc)	OBC-B- 03 (ad hoc)	OBC-B- 04 (ad hoc)	OBC-B(7%)- 05
Mathematics	Total-55	Total- 58	Total- 61	Total- 64	Total- 67	Total- 70	Total- 72
	General- 40	General- 40	General- 40	General- 40	General- 40	General- 40	General- 40
	SC- 12	SC (22%)- 13	SC (22%)- 13	SC (22%)- 14	SC (22%)- 15	SC (22%)- 15	SC (22%)- 16
	ST- 03	ST(6%)- 03	ST(6%)- 04	ST(6%)- 04	ST(6%)- 04	ST(6%)- 04	ST(6%)- 04
	PH-3% Horizontal	PH-3% Horizontal	PH-3% Horizontal	PH-3% Horizontal	PH-3% Horizontal	PH-3% Horizontal	PH-3% Horizontal
	OBC-A- 0	OBC-A- 01 (ad hoc)	OBC-A- 03 (ad hoc)	OBC-A- 04 (ad hoc)	OBC-A- 05 (ad hoc)	OBC-A(10%)- 07	OBC-A(10%)- 07
	OBC-B- 0	OBC-B- 01 (ad hoc)	OBC-B- 01 (ad hoc)	OBC-B- 02 (ad hoc)	OBC-B- 03 (ad hoc)	OBC-B- 04 (ad hoc)	OBC-B(7%)- 05

Subject with Seat Break-up	Year 2013-14	Year 2014-15	Year 2015-16	Year 2016-17	Year 2017-18	Year 2018-19	Year 2019-20
	Initial Intake						
Chemistry	Total-38	Total- 41	Total- 42	Total- 44	Total- 46	Total- 48	Total- 51
	General- 28	General- 28	General- 28	General- 28	General- 28	General- 28	General- 28
	SC- 08	SC (22%)- 09	SC (22%)- 09	SC (22%)- 10	SC (22%)- 10	SC (22%)- 11	SC (22%)- 11
	ST- 02	ST(6%)- 02	ST(6%)- 03	ST(6%)- 03	ST(6%)- 03	ST(6%)- 03	ST(6%)- 03
	PH-3% Horizontal	PH-3% Horizontal	PH-3% Horizontal	PH-3% Horizontal	PH-3% Horizontal	PH-3% Horizontal	PH-3% Horizontal
	OBC-A- 0	OBC-A- 01 (ad hoc)	OBC-A- 01 (ad hoc)	OBC-A- 02 (ad hoc)	OBC-A- 03 (ad hoc)	OBC-A- 04 (ad hoc)	OBC-A(10%)- 05
	OBC-B- 0	OBC-B- 01 (ad hoc)	OBC-B- 01 (ad hoc)	OBC-B- 01 (ad hoc)	OBC-B- 02 (ad hoc)	OBC-B- 02 (ad hoc)	OBC-B(7%)- 04
Geography	Total-48	Total- 50	Total- 52	Total- 54	Total- 56	Total- 59	Total- 62
	General- 34	General- 34	General- 34	General- 34	General- 34	General- 34	General- 34
	SC- 11	SC (22%)- 11	SC (22%)- 11	SC (22%)- 12	SC (22%)- 12	SC (22%)- 13	SC (22%)- 14
	ST- 03	ST(6%)- 03	ST(6%)- 03	ST(6%)- 03	ST(6%)- 03	ST(6%)- 04	ST(6%)- 04
	PH-3% Horizontal	PH-3% Horizontal	PH-3% Horizontal	PH-3% Horizontal	PH-3% Horizontal	PH-3% Horizontal	PH-3% Horizontal
	OBC-A- 0	OBC-A- 01 (ad hoc)	OBC-A- 02 (ad hoc)	OBC-A- 03 (ad hoc)	OBC-A- 04 (ad hoc)	OBC-A- 05 (ad hoc)	OBC-A(10%)- 06
	OBC-B- 0	OBC-B- 01 (ad hoc)	OBC-B- 02 (ad hoc)	OBC-B- 02 (ad hoc)	OBC-B- 03 (ad hoc)	OBC-B- 03 (ad hoc)	OBC-B(7%)- 04
B.A General	Total-300	Total- 316	Total- 332	Total- 348	Total- 364	Total- 380	Total- 396
	General- 216	General- 216	General- 216	General- 216	General- 216	General- 216	General- 217
	SC- 66	SC (22%)- 70	SC (22%)- 73	SC (22%)- 77	SC (22%)- 80	SC (22%)- 84	SC (22%)- 87
	ST- 18	ST(6%)- 19	ST(6%)- 20	ST(6%)- 21	ST(6%)- 22	ST(6%)- 23	ST(6%)- 24
	PH-3% Horizontal	PH-3% Horizontal	PH-3% Horizontal	PH-3% Horizontal	PH-3% Horizontal	PH-3% Horizontal	PH-3% Horizontal
	OBC-A- 0	OBC-A- 07 (ad hoc)	OBC-A- 14 (ad hoc)	OBC-A- 20 (ad hoc)	OBC-A- 27 (ad hoc)	OBC-A- 33 (ad hoc)	OBC-A(10%)- 40
	OBC-B- 0	OBC-B- 04 (ad hoc)	OBC-B- 09 (ad hoc)	OBC-B- 14 (ad hoc)	OBC-B- 19 (ad hoc)	OBC-B- 24 (ad hoc)	OBC-B(7%)- 28
B.Sc General	Total-132	Total- 139	Total- 146	Total- 153	Total- 160	Total- 166	Total- 172
	General- 95	General- 95	General- 95	General- 95	General- 95	General- 95	General- 95
	SC- 29	SC (22%)- 31	SC (22%)- 32	SC (22%)- 34	SC (22%)- 35	SC (22%)- 37	SC (22%)- 38
	ST- 08	ST(6%)- 08	ST(6%)- 09	ST(6%)- 09	ST(6%)- 10	ST(6%)- 10	ST(6%)- 10
	PH-3% Horizontal	PH-3% Horizontal	PH-3% Horizontal	PH-3% Horizontal	PH-3% Horizontal	PH-3% Horizontal	PH-3% Horizontal
	OBC-A- 0	OBC-A- 03 (ad hoc)	OBC-A- 06 (ad hoc)	OBC-A- 09 (ad hoc)	OBC-A- 12 (ad hoc)	OBC-A- 14 (ad hoc)	OBC-A(10%)- 17
	OBC-B- 0	OBC-B- 02 (ad hoc)	OBC-B- 04 (ad hoc)	OBC-B- 06 (ad hoc)	OBC-B- 08 (ad hoc)	OBC-B- 10 (ad hoc)	OBC-B(7%)- 12

Women

The college has a healthy male/female balance and female students have often fare better than their male counterpart. As a Government College, it ensures that Women education is given special attention. Barasat being a pioneer in female education, the enrollment of girl students has been considerable. With the introduction of the *Kanyashree* Scholarship (K2), a special scholarship set up by the Hon'ble Chief Minister of West Bengal for continuation of education of unmarried girl students, the ratio should see an upswing in the coming years.

Table 2.5: Ratio of Female students vis-a-vis Male students during last Four years



Differently-abled

During admission 3% of total seats are reserved for those with disabilities and the allotment is made from the category in which the PH candidate belongs. The degree of disability determines the order of preference among PH candidates. PH certificate issued by the specified authority recognized by the Government are accepted to determine the degree of disability.

Economically weaker sections

The mandate of inclusive education warrants that both the application fees and enrollment fees should be within affordable limits. The cost of applying to any courses has been kept at a bare minimum, without any profit motive. A student can simultaneously apply for two Honours

courses and one General course against payment of just Rs.50/- (fifty), along with Rs.10/- (ten) as Bank Fee. The monthly tuition fees are also considerably low, thus making the admission fees affordable. Beyond this, the Principal of the College uses his discretion to waive the admission fees for economically weak students.

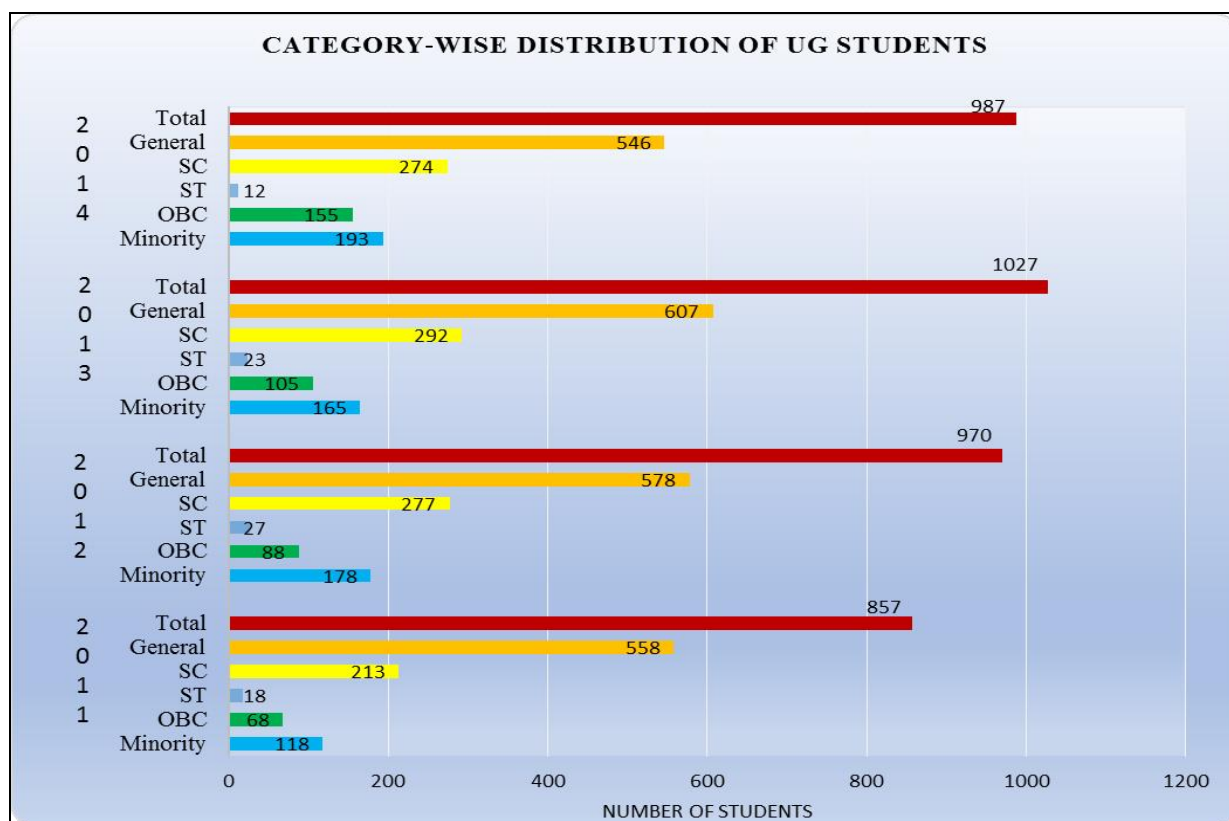
Table 2.6: List of Fees payable at the Time of Admission

	<i>B.Sc Hons. (except Economics)</i>	<i>B.Sc. Hons. in Economics</i>	<i>Hons. in Arts Subject</i>	<i>B.Sc. Pass</i>	<i>B.A. Pass</i>	<i>PG Courses</i>
<i>One month's tuition fee</i>	110	110	75	85	50	160
Heads	Fees payable during admission					
A) Tuition Fees	$110 \times 7 = 770$	$110 \times 7 = 770$	$75 \times 7 = 525$	$85 \times 7 = 595$	$50 \times 7 = 350$	$160 \times 7 = 1120$
B) Library Caution Money	5	5	5	5	5	20
(C) Lab Caution Money	20	---	---	15	---	50
(D) Punkha Fees	1	1	1	1	1	1
(E) Examination Fees	2	2	2	2	2	2
(F) Univ. (Regn.+ Exam form + Regn. handling charge) Fees	$110+20+10 = 140$	$110+20+10 = 140$	$110+20+10 = 140$	$110+20+10 = 140$	$110+20+10 = 140$	$130+20+10 = 160$
(G) Students' Union Fees (Annual)	150	150	150	150	150	150
(H) Students' Health Home	5	5	5	5	5	5
(I) Sports	60	60	60	60	60	60
(J) Miscellaneous	52	52	52	52	52	52
Total	1315	1295	1015	1110	815	1780

Minority community

North 24 Parganas is one among the ninety (90) Category-B districts of India, having been identified as Muslim minority concentration district. Each year a significant number of students from the minority community gets admitted in the College. The reservation under OBC- A category primarily ensures reservation of seats for the minority students also. The minority students can also avail Post-Matric Scholarship offered by West Bengal Minorities Development and Finance Corporation (WBMDFC).

Table 2.7: Minority Students in perspective of Other Category of Students



Any other

The College takes initiatives to support students who are keen to excel in athletics and other sports activities. They are provided with sports-gear and funds to participate at national/state level athletic meets. The College is considering a proposal for introduction of a sports quota during admission process. However, limited land is a vicarious challenge in this regard.

2.1.6. Provide the following details for various programmes offered by the institution during the last four years and comment on the trends i.e. reasons for increase/decrease and actions initiated for improvement.

Table 2.8: Trends of Admission process during last four years

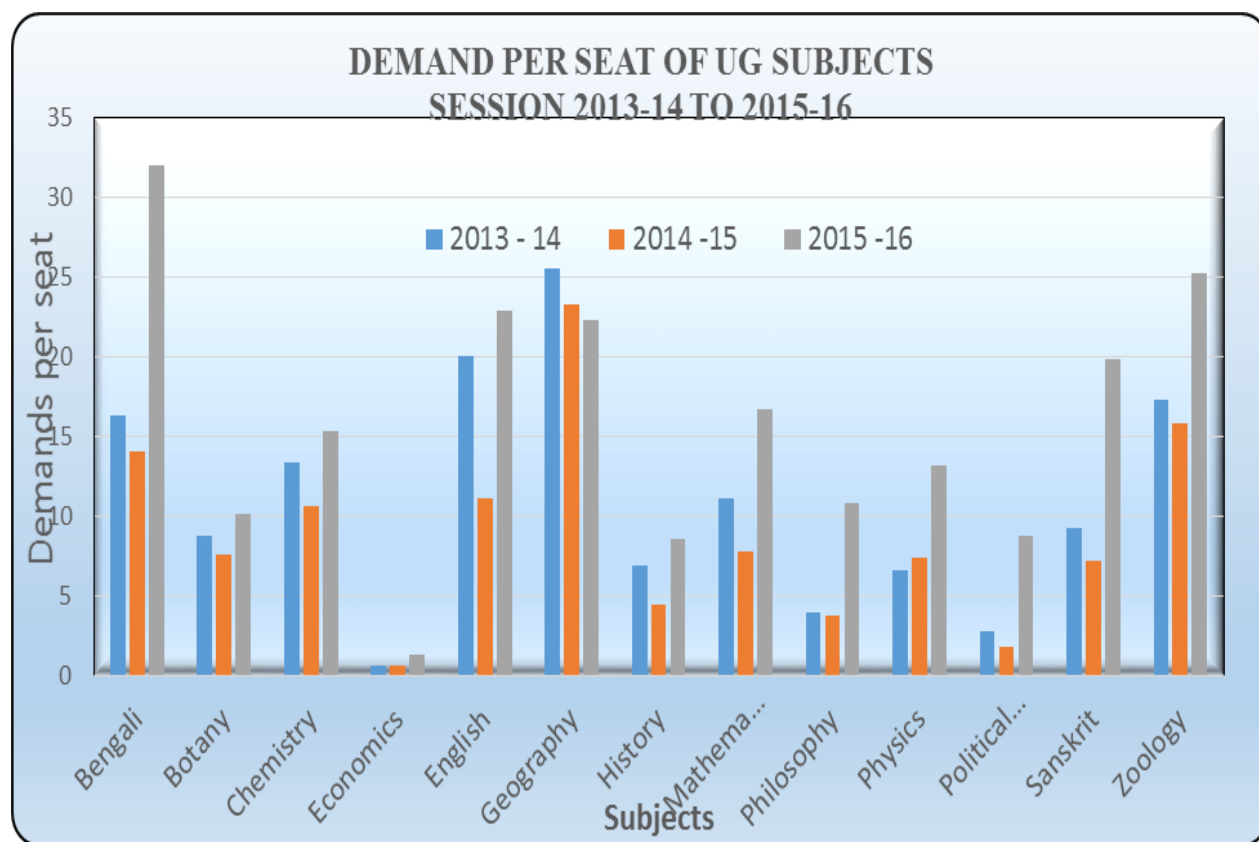
UG Programme	Academic Session	No. of Seats	Number of Applicants	No. of Students Admitted ¹	Demand Ratio
Bengali	2012-13	66	949	63	1:14.4
	2013-14	72	1174	72	1:16.3
	2014-15	76	1074	71	1:14.1
	2015-16	80	2566	71	1:32
Botany	2012-13	39	322	34	1:8.2
	2013-14	43	376	32	1:8.7
	2014-15	46	351	25	1:7.6
	2015-16	47	478	45	1:10.1
Chemistry	2012-13	35	383	28	1:10.9
	2013-14	38	511	33	1:13.4
	2014-15	41	435	33	1:10.6
	2015-16	42	647	39	1:15.4
Economics	2012-13	39	41	06	1:1
	2013-14	43	29	06	1:0.6
	2014-15	46	31	01	1:0.6
	2015-16	47	61	30	1:1.2
English	2012-13	66	1316	75	1:19.9
	2013-14	72	1447	75	1:20
	2014-15	76	846	72	1:11.1
	2015-16	80	1833	80	1:22.9
Geography	2012-13	44	1237	47	1:28.1
	2013-14	48	1266	52	1:25.5
	2014-15	50	1164	53	1:23.2
	2015-16	52	1160	52	1:22.3
History	2012-13	66	697	63	1:10.5
	2013-14	72	501	71	1:6.9
	2014-15	76	339	63	1:4.4
	2015-16	80	687	77	1:8.5
Mathematics	2012-13	50	339	47	1:6.7
	2013-14	55	615	46	1:11.1
	2014-15	58	452	50	1:7.7
	2015-16	61	1018	61	1:16.6

¹ Till the 2014-15 session, those students who have completed the registration process with the University, have been considered. For 2015-16 session, registration process is yet to commence.

Philosophy	2012-13	66	523	66	1:7.9
	2013-14	72	287	55	1:3.9
	2014-15	76	284	57	1:3.7
	2015-16	80	865	73	1:10.8
Physics	2012-13	46	346	37	1:7.5
	2013-14	50	331	33	1:6.6
	2014-15	53	392	36	1:7.3
	2015-16	56	737	51	1:13.1
Political Science	2012-13	66	248	58	1:3.7
	2013-14	72	204	60	1:2.8
	2014-15	76	141	43	1:1.8
	2015-16	80	700	79	1:8.7
Sanskrit	2012-13	39	402	35	1:10.3
	2013-14	43	398	40	1:9.2
	2014-15	46	330	44	1:7.1
	2015-16	47	936	47	1:19.9
Zoology	2012-13	39	717	39	1:18.3
	2013-14	43	746	40	1:17.3
	2014-15	46	728	43	1:15.8
	2015-16	47	1189	47	1:25.2
B.A General	2012-13	275	2799	309	1:10.7
	2013-14	300	2181	344	1:7.2
	2014-15	316	1363	334	1:4.3
	2015-16	332	3667	301	1:11
B.Sc. General	2012-13	121	678	63	1:5.6
	2013-14	132	571	68	1:4.3
	2014-15	139	446	62	1:3.2
	2015-16	146	881	110	1:6
PG Programme	Academic Session	No. of Seats	Number of Applicants	No. of Students Admitted	Demand Ratio
Bengali	2012-13	30	265	30	1:8.8
	2013-14	32	278	32	1:8.6
	2014-15	32	285	32	1:8.9
Botany	2012-13	25	104	25	1:4.1
	2013-14	25	116	25	1:4.6
	2014-15	27	110	27	1:4
Physics	2012-13	20	175	20	1:8.7
	2013-14	20	180	20	1:9
	2014-15	22	165	22	1:7.5
Zoology	2012-13	24	167	24	1:6.9
	2013-14	24	154	24	1:6.4
	2014-15	26	152	26	1:5.8

M.Phil.	N.A	N.A	N.A	N.A	N.A
Ph.D.	N.A	N.A	N.A	N.A	N.A
Integrated	N.A	N.A	N.A	N.A	N.A
Value added	N.A	N.A	N.A	N.A	N.A
Certificate	N.A	N.A	N.A	N.A	N.A
Diploma	N.A	N.A	N.A	N.A	N.A
PG Diploma	N.A	N.A	N.A	N.A	N.A
Any other	N.A	N.A	N.A	N.A	N.A

Table 2.9: Demand Ratio at a glance



From the macro-level projection it appears that there was a relative lull in demand during 2014-15 session followed by a sharp upswing in demand for few honours subjects during the 2015-16 admission process. Introduction of complete online system along with fee collection portal may have contributed to such growth in demand.

2.2 Catering to Student Diversity

2.2.1. How does the institution cater to the needs of differently-abled students and ensure adherence to government policies in this regard?

- Among manifold issues related to educational aspects, the College takes into consideration the problems and necessities of the differently able students.
- In consonance with the directives of the Government, 3% of seats in each discipline are reserved during admission for persons with disabilities and the allotment is made from the category in which the candidate belongs. The degree of disability determines the order of preference among PH candidates. PH certificate issued by specified authority recognized by the Government are accepted to determine the degree of disability.
- The college has constituted the sub-committee named 'Higher Education for Persons with Special Needs (HEPSN)' and the "Equal Opportunity Cell" for providing and monitoring the necessary support services to students with disabilities and students from disadvantaged section of the society,. The college also seeks to provide barrier-free environment for students with special learning needs to ensure equal opportunities and full participation in regular teaching learning and similar co-curricular activities. Construction of ramp, arrangements for wheel chair, braille books in the library, purchase of hearing equipment are some of the necessary measures that the college has undertaken.
- Moreover, the above committees have also arranged awareness programmes, seminars and discussions. On 21st September 2012 an awareness programme was organized on "The Problems of Inclusion in the Higher Education, for Persons with Disabilities". On 27th March 2015, a short seminar was arranged on the title "The Role of Mass Media in Creating Social Awareness for The Differently Able". On the whole, the college makes sincere endeavour to look after the facilities of the students with special learning needs and to assure them equal opportunities for their full and enabled participation in the mainstream academic activities. Presently one of our differently abled student Sahida Khatun (with class S-4 disabilities) has the unique distinction of participating in Paralympics and she was also awarded by the State Government in the category of 'Role Model' for her outstanding performance in sports.

2.2.2. Does the institution assess the students' needs in terms of knowledge and skills before the commencement of the programme? If 'yes', give details on the process.

One significant way of assessing the skills of the students is to conduct admission tests. However, Admission tests are not conducted to honour the assessment of the previous examining body. Students are enrolled according to the marks attained in the qualifying examinations with special stress on marks attained in the subject opted for honours. This is how the teachers of the Department gets to know the academic profile of the students prior to the commencement of the curriculum based teaching. Fresher's Welcome programmes are organized centrally by the Students' Union and also individually by the Departments. Skills of the younger lot get exhibited through such events.

On the other hand, assessment of the needs of the students is a continuous process. Teachers interact with the students regularly and maintain a close teacher-student bond. Often students confide in the teachers about their financial difficulties, and the teachers try to address the same through institutional assistance, such as half-free or full-free studentship.

2.2.3. What are the strategies adopted by the institution to bridge the knowledge gap of the enrolled students (Bridge/Remedial/Add-on/Enrichment Courses, etc.) to enable them to cope with the programme of their choice?

As the college admits students from diverse backgrounds, it takes definite steps to address the knowledge gap between different types of students. To bridge the knowledge gap the Departments arrange tutorial classes for the slow learners. UGC sponsored Remedial Classes (for SC, ST, OBC and other non-creamy layer students) are also arranged. Even when there is a lack of remedial funds the College advises HODs to organize special classes for weak students before or after college hours, or during free periods as tutorial classes. Departments also procure specific books in their respective seminar library which these students can use.

The college takes special interest in spreading basic computer literacy and social awareness among students. Under-graduate first year students of this College are imparted a compulsory computer course, where the College has partnered with the local Centre of National Institute of Electronics & Information Technology (NIELIT, erstwhile DOEAC), an autonomous body

under the Department of Information Technology, Government of India. Provision for such classes were incorporated within the class-routine of the under-graduate first year students and after completion of the course the organization issue participatory certificate. Students, especially from economically weaker sections, continues with it even after they have passed out. Seminars on moral and ethical values, human rights, gender-neutrality etc. are also organized to enrich the students and broaden their community orientation.

2.2.4. How does the college sensitize its staff and students on issues such as gender, inclusion, environment etc.?

GENDER

The nation-wide demand for gender-justice has made the college keen on addressing gender issues. In order to spread awareness on the theme the NSS unit of the College collaborated with *Sappho for Equality*, Kolkata and conducted a workshop on gender sensitization in February 2014. There is a functional Internal Complaints Committee (ICC) within the campus. A special box has also been provided so that any gender-related issue may be reported.

On the other hand, the number of girl students in the College is significantly higher and the College authority explores all opportunities to sustain this ratio. Prompt actions are taken to ensure that eligible girl students receive the Kanyashree scholarship of the Government on time.

INCLUSION

Recently the College had organized a special lecture programme to commemorate the sesquicentennial birth anniversary of Dr. B.R. Ambedkar. Mass participation by teachers, non-teaching staff and students made this sensitization programme on the theme of social inclusion a success. An awareness programme was organized on “The Problems of Inclusion in the Higher Education, for Persons with Disabilities” in September 2012. Besides, the College strictly adheres to the reservation policy of the Government and admits students in the following ratio.

- (a) S.C. –22% of Total seats
- (b) S.T. – 6% of total seats
- (c) OBC-A – 10% of total seats.
- (d) OBC-B – 7% of total seats.
- (e) Physically Handicapped – 3% horizontal reservation across all categories.

ENVIRONMENT

The College has constituted an “Environment Protection and Nature Cell”. It is in charge of maintaining a ‘Green Campus’. The college uses environment friendly and star rating instruments for moderate consumption of energy. The college is in the process to install a Solar Panel photo-voltaic system on the roof top of the college building with the initiative of PWD, Electrical wing, Govt. of West Bengal. Vendor is already selected by PWD, Electrical wing. The final approval from the Government is awaited for the initiation of the work. Burning of rubber and plastic in the campus and throwing e-waste in municipal wastes are strictly prohibited. A Waste Accumulation Area (WAA) outside the Department of Chemistry is specially constructed to dispose of the hazardous wastes. On the request of the College, Surface Water Investigation Department (SWID), and Agri-Engineering Department, Govt. of West Bengal has investigated the feasibility of rain water harvesting under ‘Jal Dharo Jal Bharo’, a Govt. project. The report is expected soon. A seminar was organized on 10.02.15 on this issue.

2.2.5. How does the institution identify and respond to special educational/learning needs of advanced learners?

The College promotes the interests of advance learners by procuring reference books in the seminar library and by encouraging teachers to help these bright minds towards greater success. The genial student-teacher relationship helps this process further, as most teachers take out extra-time to groom those with promise. They are also encouraged to take part in inter-college seminars, and are advised on their academic career opportunities. These students usually draw advice from their respective departments about the admission tests and enrollment in PG courses. Often they take special guidance during their preparation for NET/SET/GATE/JAM and similar examinations or PhD programmes. Departmental alumni, through social media, is utilized especially to maintain regular interaction with past-students and to encourage.

2.2.6. How does the institute collect, analyze and use the data and information on the academic performance (through the programme duration) of the students at risk of drop out (students from the disadvantaged sections of society, physically challenged, slow learners, economically weaker sections etc. who may discontinue their studies if some sort of support is not provided)?

The College considers the aspect of monitoring the academic performance crucial for maintaining its goodwill as a center of learning. To uphold the mandate of inclusive education, constant monitoring of students from socially and economically challenged students are done by the teachers. Special incentives are provided to the financially challenged students. The institution employs the following methods to keep a check on drop-outs:

- Regular check on attendance.
- Maintaining a departmental record of each students address and phone number. Absenteeism is discouraged and absent students are contacted to encourage them to return to college.
- Parent-Teacher Meetings are conducted and parents are encouraged to approach the department if their ward faces any difficulties with their studies or in the campus.
- Often teachers visit the homes of inattentive students to speak with their parents and motivate them for continuing studies.
- Remedial classes are conducted for the slow learners.
- Students facing financial challenges are given incentives to continue their studies. Scholarship grants as arranged for as much number of students as possible.

2.3 Teaching-Learning Process

2.3.1. How does the college plan and organize the teaching, learning and evaluation schedules? (Academic calendar, teaching plan, evaluation blueprint etc.)

At the beginning of every year, Academic Calendar Sub-Committee prepares an institutional Academic Calendar. Then each department sets up separate Academic Calendar on the basis of the main structure.

The calendar includes —

- (i) Detailed break-up of syllabus.
- (ii) Number of classes allotted for each paper.
- (iii) Time schedule for tutorial classes.
- (iv) Probable dates of class tests, college examinations, and university examinations.
- (v) List of Holidays and vacations, etc.

▪ Teaching plan

In most departments, the departmental teachers prepare their Teaching Plan. These teaching plans are displayed in the departmental notice boards.

The **evaluation blue print** is structured by the affiliating university and sent to the college, which is adhered by the respective departments of the college. The detailed breakup of marks, question pattern, probable date of examination etc. is communicated to the students at the beginning of the academic session. Any changes in the pattern is intimated well in advance.

2.3.2. How does IQAC contribute to improve the teaching–learning process?

- The college has established the Internal Quality Assurance Cell (IQAC) in 6.1.2010. Since its initiation, the IQAC has been a regularly functioning unit which supervises the teaching-learning process of the institution.
- The IQAC team annually visits all the departments to conduct internal academic audit of the departments. During the visits, the IQAC team monitors the academic activities, records of students' seminars, records of results of students and progress of University examination results of the departments.

2.3.3. How is learning made more student-centric? Give details on the support structures and systems available for teachers to develop skills like interactive learning, collaborative learning and independent learning among the students?

Keeping in mind the information boom and tech-savvy profile of the youth, the college constantly revises the teaching learning process. Along with the old fashioned chalk and lecture method, the teachers have eagerly adopted to new methods of imparting information through –

- ICT (for web-based material)
- Projectors (for better demonstration) and
- Films (to inculcate greater interest in the subject)

These methods help to make the courses more interactive, collaborative and research- oriented.

Interactive Learning

This includes group discussions in class, seminars, debates and quiz programmes. Students'

Seminars are organized and students are encouraged to present papers. Often certain portion of the curriculum is taught through these seminars. More importantly the seminar-method instills confidence in the students, both over their subject and in the art of presentation. They also get a chance to use ICT enabled technologies during presentations. The Students' Union organized an Inter-College Quiz Programme, *Mind-Quest* in 2014, which shows that students too have responded to the College's attempts to make learning interactive and enjoyable. Debates are a regular feature of Annual intra-college competitions. Other regular features are department wall-magazines. Efforts are on to publish a regular students' magazine. Interaction with ex-students also help in this process as they become good guides especially for final year students. They impart vital information regarding furtherance of knowledge for follow-up courses.

Collaborative Learning

Interactive learning, naturally and surely, leads to Collaborative Learning. Lab-based classes greatly encourage collaborative learning. Field trips and college excursions, which are mandatory for science students, also support the same. Humanities students are encouraged to study in groups and make group presentations. Besides these, participation in College competitions, cultural functions, wall-magazines, games and sports etc. help in collaborative learning as well.

Independent Learning

Through the Library (and Seminar Library) the College encourages Independent Learning. Moreover, students are constantly asked to write answers and discuss the same with their teachers during tutorial classes, or in between classes, whenever possible. It is heartening to note that not only the advanced learners, but slow learners approach teachers regularly. Installation of internet facilities in the campus is a big support towards independent learning.

2.3.4. How does the institution nurture critical thinking, creativity and scientific temper among the students to transform them into life-long learners and innovators?

The College takes several steps to nurture critical thought, creativity and scientific approach among the students.

- Students are encouraged to ask questions and advance their opinions within the classrooms to make the teaching-learning process interactive.
- The College regularly arranges seminars and invitational lectures and workshops in various disciplines. The students and teachers of all departments are encouraged to participate in these deliberations to promote inter-disciplinary academic spirit within them.
- Students' seminars in various departments are regularly conducted to inculcate independent critical thinking as well as collaborative learning among the students.
- NSS organized programmes like seminars on child rights, AIDS awareness, Thalassemia Detection Camps and awareness programmes etc. also instill critical thinking and scientific temper among the students.

2.3.5. What are the technologies and facilities available and used by the faculty for effective teaching? Eg: Virtual laboratories, e-learning resources from National Programme on Technology Enhanced Learning (NPTEL) and National Mission on Education through Information and Communication Technology (NMEICT), open educational resources, mobile education, etc.

As the needs of the time, the faculty of this college is continuously upgrading themselves with modern day technology in addition to the conventional chalk and talk method.

- Under the National Mission on Education through ICT (NMEICT), funded by the Ministry of Human Resources Development, Government of India, provision for high speed broadband internet through both wireless and wired medium has been created in all the Departments, Teachers' Room, Library and College Office. A separate local area network (LAN) has been set up as well, interconnecting physically distant points of various Departments. The College authority fully appreciates the opportunities that can emanate from internet access and is committed to remove all barriers in this regard.
- The IQAC is considering the options for integrating the virtual class lectures available through NPTEL programme and devising ways to incorporate the same into conventional classroom teaching. For this purpose, physical infrastructures are being augmented, such as creation of e-classrooms, improving broadband internet speed etc.
- Following technology enabled facilities are available for effective teaching:

- Use of LCD projectors.
 - Use of internet and audio-visual medium like films.
 - Use of software such as QGIS, 21st Century, SPSS, Excel Stat Pro, Geomatica, Bhuban, Google Earth Pro, and Corel Draw by Dept. of Geography.
 - Use of software such as MATLAB, OCTAVE, LATEX, SIGMA PLOT, ORIGIN, GEANT 4.0, Cascade, MAUD by the Department of Physics.
 - Use of Mathematica, MATLAB software by the Department of Mathematics.
 - Use of Chem Draw, Chem Win, ISIS Draw etc. software by the Dept. of Chemistry.
 - Searching books through LIBSYS software from the library.
 - The Library has INFLIBNET facility, a portal through which the teachers and students can have access to useful journals. Also, online membership of British Council Library enables the faculty and the students to access important materials.
- In a recent development, the College is developing its own free android App to disseminate vital information through the mobile platform. It is hoped that eventually such platform can be harnessed in future to augment mobile education.

2.3.6. How are the students and faculty exposed to advanced level of knowledge and skills (blended learning, expert lectures, seminars, workshops etc.)?

- ☞ Up-grading of knowledge for the faculty and the students take place constantly. For this purpose, several National level and State level seminars have been organized.
- ☞ Students are encouraged to take and share information from the Web. This helps to blend traditional teaching-learning process with e-learning. **Blended Learning** has been partially initiated with the availability of e-resources to the students. The students are encouraged to browse the internet constructively to access study materials available there.
- ☞ A more effective way of bringing about Blended Learning is through the organization of expert lectures and seminars, and the various departments have dedicatedly organized these special sessions. Some departments have also organized UGC Funded Special lectures delivered by renowned teachers and academicians. The list of seminars and special lectures are being shown in the table 2.10 and 2.11 below.

Table 2.10: List of Major Seminars Organized during last Five years

SI No.	Organizing Department	Title of the Seminar	Date/Year
1.	Departments of Bengali, History, Philosophy, English and Sanskrit in collaboration with Paschimbanga Itihas Samsad	UGC-sponsored State Level Seminar on “Technologies of Revolution: Society, Economy & Polity”	4 th -5 th March 2010
2.	PG Dept. of Botany, Barasat Govt. College and Biological Science Division, ISI Kolkata.	National Seminar on ‘Emerging Trends in Plant Science’	14 th -15 th July 2011
3.	Department of Chemistry, Barasat Govt. College in collaboration with Indian Association for the Cultivation of Science (IACS), Jadavpur.	UGC-sponsored National Seminar on “Modern Trends of Research in Chemistry: Scope of Inclusion in Undergraduate and Post-graduate Courses”	September 7 and 8, 2011
4.	Department of Zoology, Barasat Government College in collaboration with West Bengal State University	UGC Sponsored National Seminar on “Rediscovering 100 Years of Journey on the Field of Immunology: Present Status of Immunological Research in India”	September 19 th -20 th , 2011
5.	Departments of English, History, Philosophy, and Sanskrit in collaboration with School of Women's Studies, Jadavpur University	UGC-sponsored National-level seminar on “Women and Literature: Different Faces, Different Voices”	16 th and 17 th January 2012

Table 2.11: List of Special/Extension Lectures and other Activities organized recently by different Departments/College

Sl No.	Organizing Department	Theme of the Lecture/programme and name of Resource Person	Date/Year
1.	Philosophy	A talk on Sankhya Philosophy by Dr. Tapan Kumar Chakraborty, formerly Professor of Philosophy, Department of Philosophy	28 th February 2014
		A Special lecture on 'Vivekananda: His Thoughts' by Dr. Aparna Banerjee, Prof. of Philosophy, Calcutta University	7 th March 2014
		A talk on Nyaya Philosophy by Dr. Tapan Kumar Chakraborty, formerly Prof. of Philosophy, Department of Philosophy, Jadavpur University	1 st December 2014
		A Students' seminar	21 st January 2015
2.	Chemistry	One day Seminar on 'Acharya Prafulla Chandra Ray Memorial Lecture'	30.09.2010
3.	English	UGC sponsored National level seminar in collaboration with Bidhan Nagar College titled "Literature in Translation".	August 2013
4.	History	Extension lecture on "French Revolutions" by Prof. Subash Ranjan Chakrabarty, former Professor of History, Presidency University	09.01.2015.
5.	Sanskrit	A special lecture on Karmavada	August 2014
		A talk on the theories of Kavya	18.12.2014
		A Students' Seminar	20.1.2015
6.	Political Science	Awareness Programme on Human Rights with lectures by a) Hon'ble Justice Chittatosh Mookerjee b) Dr. Indrashis Banerjee of Ramakrishna Mission Vidyamandira, Belur.	15.12.2014
		A Students' Seminar on Human Rights	15.12.2014
7.	Physics	One day seminar on 'Physics Teaching Methodology' Speakers – Dr. Birendranath Das (Presidency University), Dr. Bhupati Chakraborty (City College, Kolkata), Dr. Surajit Chakraborty (Maharaja Manindra Chandra College, Kolkata), Dr. Syed Minhaz Hossain (IEST, Shibpur).	21.01.12
		Seminar lecture on 'Why do we require optics in computing'. Speaker- Dr. Tanay Chakraborty (WBPDC, Kolaghat)	03.10.12.
		Seminar lecture on 'The amazing story of the Higgs boson'. Speaker-- Professor Soumitra Sengupta (Indian Association for the Cultivation of Science)	13.10.12.
		Seminar on "Recent Trends on Physics"	31.08.2013

		Seminar lecture on 'Indian initiative in neutrino research' Speaker-- Dr. Kolahal Bhattacharya (TIFR)	16.01.13.
		Seminar lecture on 'Effect of projectile breakup on fission fragment mass distribution in ${}^6\text{Li} + {}^{238}\text{U}$ reactions'. Speaker: Mr. Dipayan Chattopadhyay (BARC)	02.08.2014
8.	Bengali	Special Lecture on 'Drama' for PG students. Speaker: Dr. Pabitra Sarkar	28.11.2014
		Special Lecture on 'Meghdut' for all the students of the Department Speaker: Dr. Nrisingha Prasad Bhaduri	12.11.2014
		Meghdut Path Sanchalana by Aharnish Patrika Gosthi	12.11.2014
		'Novel er Romance : Romance er novel'; special lecture for PG 3 rd Semester Students by Dr. Biswajit Roy	13.11.2014
		Special Lecture on Raktokarobi & Rabindra Drama-song by Dr. Rajasree Bhattacharyay	18.03.2014
9.	The College	A seminar cum mass awareness programme on rain water harvesting sponsored by Surface Water Investigation Department (SWID), Govt. of West Bengal	10.02.2015
		Amdedkar Memorial Lecture to commemorate sesquicentennial birth centenary of Dr. B.R. Ambedkar, organized with Tathya Sanskriti Bibhag, North 24 Parganas.	25.07.2014
10.	NSS Unit of College	One day seminar on 'Protection of Child Rights' organized by West Bengal Commission for Protection of Child Rights. Speaker: Indu Sekhar Mukherjee, Ushree Musherjee.	29.03.2015
11.	HEPSN Committee and Equal Opportunity Cell	An awareness programme on "The Problems of Inclusion in the Higher Education for Persons with Disabilities".	21.09.2012
		A short seminar on the title "The Role of Mass Media in Creating Social Awareness for The Differently Able".	27.03.2015
12.	Environment Protection and Nature Cell	Awareness programme related to Safe handling/usage/savings of LPG domestic Gas in collaboration with Successor's Elevating Forum.	19.08.2013

2.3.7. Detail (process and the number of students/benefitted) on the academic, and psycho-social support and guidance services (professional counseling/mentoring/academic advice) provided to students?

The College has successfully conducted the UGC Entry-in-Services Programme to provide career related mentoring to many students. For details of the programme, kindly refer to Table 1.3 under Criterion-I. The College has also undertaken UGC funded remedial classes from 2010-2013. Details of this programme is given in Table 2.12 below.

Besides these the College arranges for tutorial classes within class hours for further academic guidance. By and large the faculty, who share a genial relationship with the students offer both academic counseling for further studies as well as psycho-social counseling, wherever required. This year the Career and Counselling Cell of the College collaborated with EIILM to arrange professional career guidance and training for final year students. The College is also planning to open up a psychological counseling cell for the students with a visiting Counselor.

Table 2.12: Number of Classes Held under UGC Remedial Programme during past few Years

Subject	2010-2011 Fund Allocated (Recurring) Rs.1,00,000/-		2011-2012 Fund Allocated (Recurring) Rs.4,20,000/-		2012 to 2013 September Fund Allocated (Recurring) Rs.1,50,000/-		2013-2014 (Fund yet to be received)		2014-2015 (Fund yet to be received)	
	Number of Classes Held		Number of Classes Held		Number of Classes Held		Number of Classes Held		Number of Classes Held	
	UG	PG	UG	PG	UG	PG	UG	PG	UG	PG
English	30		80		35		30		40	
Geography	35		146		35		32		35	
History	35		179		50		50		60	
Philosophy	30		100		30		30		35	
Political Science	25		30		30		30		35	
Sanskrit	20		95		30		30		30	
Botany	40	20	141	176	35	35	30	30	40	40
Chemistry	50		100		40		40		40	
Mathematics	30		80		25		25		20	
Physics	20	10	20	14	20	15	20	20	20	15
Zoology	30	20	100	140	37	33	35	35	45	35
Total	345	50	1,071	330	367	83	352	85	400	90

2.3.8. Provide details of innovative teaching approaches/methods adopted by the faculty during the last four years? What are the efforts made by the institution to encourage the faculty to adopt new and innovative approaches and the impact of such innovative practices on student learning?

Keeping in mind the changing mindset of students the teachers strive to generate and involve students' interest in the course. The following methods were implemented in the last four years:

- a. Organization of seminars, special talks by invited speakers and students seminars.
- b. Using ICT in classroom teaching
- c. Using films and documentary as supportive material
- d. Through debates, quizzes and wall-magazines.
- e. Conducting educational tours. These initiatives are not limited to science departments only.

Social science departments too involve the students in such educational tours, like Department of History arranged trips to the Indian Museum.

2.3.9. How are library resources used to augment the teaching-learning process?

The library is constantly in use by the students. The central library houses more than 80,000 books (including a book bank) and subscribes about 20 journals. Apart from the central library, there are seminar libraries attached to all individual departments. The *Libsys* software, consisting of Cataloguing Biblio and Utility facilities, have made it more user-friendly. The library has joined INFLIBNET (Information and Library Network) and has acquired institutional membership of *The British Council Library*, Kolkata. Both provide access to a wide number of e-journals and research inputs and material available on the internet. These can be utilized by teachers and students alike through specially generated user-ids from any internet portal, even if he is not physically present in the college.

The Library provides:

- Air-conditioned Reading room facilities and reference services
- Internet-access
- E-learning facilities
- E-journals and research theses made available by British Council Library, Kolkata
- Home lending of books
- Photocopying facility for postgraduate students.

2.3.10. Does the institution face any challenges in completing the curriculum within the planned time frame and calendar? If ‘yes’, elaborate on the challenges encountered and the institutional approaches to overcome these.

Natural calamities, strikes, general elections, delay in University examinations and in-service transfer of faculty usually threaten to disrupt the Academic Calendar. In order to prevent disruption of the Academic Calendar teachers reschedule routines and arrange for extra-classes, at times even during long holidays to complete the syllabus.

2.3.11. How does the institute monitor and evaluate the quality of teaching-learning?

The monitoring of the teaching-learning process is done through a graded method:

- On a central level, the IQAC keeps a constant vigil on the academic processes of the College. It checks and keeps record of the functioning of the faculty and the students.
- Internal academic audits by the IQAC are a mechanism to supplement its monitoring.
- Teachers constantly monitor students’ attendance through regular attendance records. Students’ progress is also evaluated through class assessments and/or tests.
- If any student is found with poor attendance or appears disinterested in learning, then the teachers discuss the matter separately with the concerned guardians.
- Regular Parent-Teacher meetings are conducted to apprise the guardians about the academic affairs of the College and the progress of their wards.
- The Principal monitors the functioning of the departments by regularly checking the Teachers Daily Self Appraisals and conferring with HoDs on pertinent matters.
- All academic activities are decided through the Teachers’ Council.
- The College also informs and involves the Students’ Union and the Alumni to muster support to ensure optimum results from Teaching-Learning.

2.4 Teacher Quality

2.4.1 Provide the following details and elaborate on the strategies adopted by the college in planning and management (recruitment and retention) of its human resource (qualified and competent teachers) to meet the changing requirements of the curriculum.

Table No. 2.13: Qualification of the Teaching faculty

Highest qualification	Professor		Associate Professor		Assistant Professor		Total
	Male	Female	Male	Female	Male	Female	
Permanent teachers							
D.Sc./D.Litt.	x	x	x	x	x	x	x
Ph.D.	03+ 01 Principal	x	13*	06	14	13	50
M.Phil.	x	x	x	x	02	01	03
PG	x	x	05	01	12	06	24
Temporary teachers (Guest Faculty)							
Ph.D.					16	x	16
M.Phil.					x	x	x
PG					x	x	x
Part-time teachers							
Ph.D.					00	01	01
M.Phil.					x	04	04
PG					02	18	20

**Includes the Librarian as well*

The College is guided by the recruitment policy of Government of West Bengal and so it cannot appoint regular faculty on its own. The recruitment of the teaching staff is made as per existing rules following UGC norms by the Department of Higher Education through the Public Service Commission, West Bengal. However, the College is empowered to engage eminent faculties as Guest Teachers. The Postgraduate departments in particular invite senior retired academicians to deliver course lectures or special lectures.

2.4.2 How does the institution cope with the growing demand/scarcity of qualified senior faculty to teach new programmes/modern areas (emerging areas) of study being introduced (Biotechnology, IT, Bioinformatics etc.)? Provide details on the efforts made by the institution in this direction and the outcome during the last three years.

Along with an established PG Course in Botany, the college has introduced PG Courses in Zoology, Bengali and Physics since the last visit of the Peer Team of NAAC in 2009. In these courses, several renowned teachers have been appointed as Guest Faculty. The college is yet to introduce any new programme on emerging areas of study like Biotechnology, IT,

Bioinformatics etc. However, Microbiology as special paper has been introduced in the PG department of Botany to meet the requirements of emerging fields. Also PG Course in Chemistry will be introduced soon as the necessary approval from the University has been obtained. The number of guest faculty in PG departments is shown in the table below:

Table No. 2.14: Details of Guest/Visiting Faculty associated with the PG Departments

<u>Name of the Department</u>	<u>Name of the Teacher</u>	<u>Qualification</u>
Zoology	Dr. Deboprasad Chakrabarty	M.Sc. PhD
	Dr. Madhusudan Ghosal	M.Sc. PhD
	Dr. S.K. Gupta	M.Sc. PhD, D.Sc.
	Dr. Rupendu Roy	M.Sc. PhD
	Dr. Swadesh Duttagupta	M.Sc. PhD
Botany	Prof. Timir Baran Jha	M.Sc. PhD
	Dr. Manas Majumder	M.Sc. PhD
	Dr. Arun Kr. Banerjee	M.Sc. PhD
Physics	Dr. Subhas Ch. Kar	M.Sc. PhD
	Dr. Swapan Kr. Das	M.Sc. PhD
	Dr. Prabir Paul	M.Sc. PhD
	Dr. Abhijit De	M.Sc. PhD
	Dr. Gour Bhattacharya	M.Sc. PhD
	Dr. Saibal Roy	M.Sc. PhD
	Dr. Debapriyo Syam	M.Sc. PhD
	Dr. Pradip Kumar Dutta	M.Sc. PhD
Bengali	Many eminent faculties and persons related to Bengali Literature have been associated with this Department, to impart lectures and specific knowledge. Due to the space constraint, names of everybody cannot be accommodate here. For details list of all such visiting faculty, kindly refer to the Profile of the Department of Bengali in Part-E of this document.	

2.4.3 Providing details on staff development programmes during the last four years elaborate on the strategies adopted by the institution in enhancing the teacher quality.

A. Nomination to staff development programmes

Table No. 2.15: Number of Staff Development Programmes Attended by Teachers

Academic Staff Development Programmes	Number of faculty nominated
Refresher courses	33
HRD programmes (Faculty Development Programmess)	02
Orientation programmes	15
Staff training conducted by the university	--
Staff training conducted by other institutions	--
Summer/winter schools, workshops, etc.	01

B. Faculty Training programmes organized by the institution to empower and enable the use of various tools and technology for improved teaching-learning.

Though the College does not have a formal structure to organize training programme for the faculties on aspects like Teaching-Learning methods, Handling new curriculum, Content Management, Handling of Enrichment Materials, Audio-Visual Aids, Open Educational Resources, Handling of Learning Material etc., these are nonetheless taken care of subliminally through various informal networks within and outside the institution. There have been several sustained in-house methods to update the knowledge-pool through new modes and technologies for disseminating the same to the students.

- **Teaching learning methods/approaches:** Refresher Courses/ Orientation Programmes/ Summer Schools/Workshops to acquire new knowledge assures faculty enrichment and an upgrading of the teaching process. The College authority ensures such participation by teachers without disrupting the normal academic schedules.
- **Handling new curriculum:** The Faculty is in constant communication with the members of the Board of Studies of WBSU to take advice on new aspects in the curriculum. Teachers are encouraged to attend workshops arranged in this regard and implement the inputs from the workshop within the academic framework of College.
- **Content/knowledge management:** This is primarily ensured through Refresher Courses which is aimed for upgrading knowledge management. Use of ICT aids also

help both faculty and students to negotiate emerging areas of knowledge.

- ***Selection, development and use of enrichment materials:***

Selection: UG departments have limited option in this area as they have to follow syllabus determined by the University. However many teachers of different departments are members of the BoS of the WBSU and they regularly participate in the syllabus restructuring. BoS of the PG departments are regularly update the syllabus and incorporate emerging areas for special papers. Even some UG departments offer optional modules within the curriculum. For instance the department of English offers both modern American Literature in English and Indian Writings in English as optional group in Paper-VIII, where most institutions offer only one option.

Development and Use: Teachers are constantly developing power-point presentations to make the teaching-learning process more interesting. All the departments have adopted to the ICT driven methods of teaching-learning. New software have been utilized by different science departments. For details on the use of software, kindly refer to the response under Point No. 2.3.5.

- ***Assessment:*** The IQAC constantly reviews the practice of the new methods within the teaching-learning programmes. Good practices and roadblocks in these new methods are discussed with the teachers. The feed-back from students also inform us about the success and importance of these assessment methods.
- ***Cross cutting issues:*** Special programmes are organized by the College on gender sensitization, environmental protection, human rights, child rights etc. to highlight these socially pertinent concerns as well as to enlighten teachers and students on current laws pertaining to these issues.
- ***Audio Visual Aids/ multimedia:*** The College always encourages the teachers to use Power point presentations, multimedia presentations/demonstrations, films etc. in regular classes. Bonhomie among fellow teachers ensure that technological know-how does not remain limited to a few teachers and is spread among all the teachers.
- ***OER's:*** Open educational resources (OERs) such as free software, wikis, academic resources out of the purview of copyright, resources from the internet etc. are used by teachers to enrich the students.

- **Teaching-learning material development, selection and use:** Methods for selection of traditional teaching-learning material such as books, journals etc. by the teachers is constantly reviewed. The College Library also provides e-learning facilities through its networking with INFLIBNET and the British Council Library. So far as development of teaching-learning material is concerned, teachers are encouraged to write books, contribute articles or chapters in books/journals to enrich the available resources.

C. Percentage of faculty

Invited as resource persons in Workshops/Seminars/ Conferences organized by external professional agencies	34%
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.	90%

2.4.4 What policies/systems are in place to recharge teachers? (e.g. providing research grants, study leave, support for research and academic publications teaching experience in other national institutions and specialized programmes industrial engagement etc.)

Being a government college, the institute itself has no authority of its own to provide research grants or study leaves. The college authority, however, always encourages the teacher to apply for research grants from various agencies. Many teachers are conducting research by associating with agencies like UGC, CSIR, DST, WBDST, ICMR, CSSS and have been awarded major and minor research projects and are being funded accordingly.

There is an internal Research Committee in the college which monitors the research activities of the faculty. The teachers are also given leave to present papers in various seminars and conferences within and outside the state of West Bengal. If any teacher applies for study leave under Faculty Development Programme, the sanctioning of the same is considered by the Higher Education Department, Government of West Bengal. The college teachers show zeal and enthusiasm to pursue research activities which get reflected by the significant number of academic publications in national and international journals. The college also promotes research orientation by creating the platform for publishing peer reviewed articles in 'Aureole',

the institutional academic journal (ISSN 0976-9625), where many faculty members from this institution and other institutions have published acclaimed research paper.

2.4.5 Give the number of faculty who received awards/ recognition at the state, national and international level for excellence in teaching during the last four years. Enunciate how the institutional culture and environment contributed to such performance/ achievement of the faculty.

Ambarish Sen has received a State award for performance and achievement as a Disabled Person in the field of Academics in December, 2011. Our Librarian Dr. Arun Roy had received an award titled ‘Tinkari Dutta Memorial Award’ for writing best article in the journal named ‘Granthagar’. Even though the other faculty members do not have such accolades it does not in any way undermine their potential to receive such awards, as most are competent as teachers and dedicated researchers. The College will consider ways to generate an environment that would urge the faculty out of their self-effacement.

2.4.6 Has the institution introduced evaluation of teachers by the students and external Peers? If yes, how is the evaluation used for improving the quality of the teaching-learning process?

The college follows the practice of evaluation of teachers by the students through feedback forms. Students, especially the outgoing students of both UG and PG Courses, fill the feedback forms. The forms are analyzed by the IQAC and they are discussed with the departmental teachers in the presence of the Principal. Suggestions, if any, are offered to the teachers to improve the standard of teaching-learning. Internal academic audit by IQAC also serves the purpose for evaluation of teachers’ performance. Assessment by external peers is conducted during Career Advancement Programmes, which takes place continually.

2.5 Evaluation Process and Reforms

2.5.1 How does the institution ensure that the stakeholders of the institution especially students and faculty are aware of the evaluation processes?

Notifications for all examinations are circulated through the college notice boards and departmental notice boards. The internal assessment papers are always shown to students and

the marks obtained by students are submitted to the tabulation committee for maintenance of records. The findings of the Result-review Committee is discussed extensively in the meetings of the Teachers' Council. Often teachers conduct several sessions to discuss the results with the students, which helps them to understand not only the subject matter but also the marking pattern. As most of the faculties are involved in the University's assessment process as paper setter/moderator/examiner they have a first-hand understanding of the evaluation process at the University level and can thus be depended upon to provide competent guidance to the students.

2.5.2 What are the major evaluation reforms of the university that the institution has adopted and what are the reforms initiated by the institution on its own?

As per the guidelines of the University, the College has adopted the 1+1+1 method of evaluation for the UG course, instead of the earlier 2+1 method. In order to implement these new structures, the college has changed its half-yearly examinations into class assessments and a 'Test' at the end of the annual UG sessions. This has allowed the institution to keep a regular tab on the students' performance. Often the marking pattern of few subjects are altered by the respective BoS of the University and the Departments suitably accommodate such pattern.

While some of the PG courses were following the annual method of evaluation earlier, currently all the PG departments have adopted the semester system to focus on continuous evaluation. The qualitative aspects are ensured through evaluation of students by external members. Seminars are part of the curriculum, where students present independent papers.

2.5.3 How does the institution ensure effective implementation of the evaluation reforms of the university and those initiated by the institution on its own?

The College has undertaken the following measures to implement the evaluation reforms:

- i) The University has provisions for re-evaluation of answer scripts for those students who may remain dissatisfied with their score. Departmental teachers discuss and familiarize the students about the scope of such system. Often they recommend those advanced learners who have fared poorly, to consider this option. There have been instances when the observation of the Departmental teachers has benefitted students.
- ii) The University has provisions to show answer scripts to students under RTI. The College provides complete support to those individual students who wish to assess the evaluation of one's scripts through this method.

- iii) The College has substituted the half-yearly Tests with Class-assignments/ Tutorials/paper presentations and similar methods of systematic continual evaluation.
- iv) Test examination is modelled on the question pattern that the University provides through their model questions. This makes the exercise fulfilling as it gives students a chance to assess their preparations in a setting akin to the real time environment.
- v) For smooth conduction of examinations, Teachers' Council of the college constitutes different Examination Committees (for Part-I, Part-II and Part-III). The teachers perform tirelessly to ensure a full-proof examination system. An Internal Examination committee is also constituted to oversee the internal Tests examinations.
- vi) The tabulation Committee maintains a record of the marks obtained by each student in the different internal assessments. Findings of the committee are discussed in results-review meetings, attended by all teachers of the College.
- vii) The College Office is involved in the Examination processes through the University Registration processes, distribution of admit cards and UG Grade-Cards. The Office also maintains a record of the number of students appearing in the examination and preserves the gazettes published by the University with the data of examinee's marks.

All these methods ensure that the evaluation is complete and well-documented.

2.5.4 Provide details on the formative and summative assessment approaches adopted to measure student achievement. Cite a few examples which have positively impacted the system.

To ensure that student assessment is continual and definite, the College conducts regular class tests and annual Test examination. Formative Assessment is carried out by the evaluation of the students through class tests, tutorial tests, performance of the students in the class and students seminar etc. Evaluated scripts are shown to the students so that they could identify as well as rectify their mistakes.

Summative Assessment is carried out through the university examinations which are held annually in the UG Courses (1+1+1 Pattern) and semester wise (four semesters) in the PG Courses. On several occasions the Heads of the Departments encouraged the students to apply

for application for Review of answer scripts, in support of the student's claim for higher grades. The student's past records in College examinations provide the Heads of the Departments with supportive data for such action. There have been instances when the observation of the Departmental teachers has benefitted students.



Photograph 2.5: Performance of PG Students being evaluated by External Evaluators

2.5.5 Detail on the significant improvements made in ensuring rigor and transparency in the internal assessment during the last four years and weightage assigned for the overall development of students (weightage for behavioral aspects, independent learning, communication skills etc.

The college strictly maintains transparency in the internal assessment of students. The teachers adhere to the pattern of evaluation prescribed by the University. Record of marks of internal examinations and class tests are maintained by respective departments and by the Tabulation Committee. Departments organize paper presentations, group discussions, debate, quiz in order to extract the best from each student. Students also participate in different intra, and inter-college co-curricular and extra-curricular activities. Teachers usually judge intra-college competitions, which foments student-teacher bonds, as well as gives the teachers added information on the students' abilities, thus providing greater scope for a holistic assessment.

2.5.6 What are the graduate attributes specified by the college/affiliating university?**How does the college ensure the attainment of these by the students?**

The graduate attributes of the college are specified in the stated goals and objectives of the college:

- The College makes an effort to mould its students into talented professionals in their respective fields of study.
- In this regard, self-reliance and skills in communication, coordination, planning, management, academic writing, and presentation skills are also expected from the students so that they can undertake any career that demand these skills.
- The College strives to create sense of accountability within the students and to ensure accountability to the society at large.

The college ensures the attainment of these attributes by the students in the following ways:

- Providing a harmonious ambience within the institution where students can fulfill their potentials.
- Undertaking rigorous programmes of teaching-learning through which students can acquire the above mentioned skills.
- Emphasizing co-curricular and sports related activities to inculcate the importance of holistic view of education among students.
- Encouraging the students to participate in extension activities for community orientation.

2.5.7. What are the mechanisms for redressal of grievances with reference to evaluation both at the college and University level?

In case of grievances regarding evaluation at the College level, following steps are followed:

- Answer scripts are shown to the students. The concerned teacher often explains to the students their weak points and ways for better performance.
- If not satisfied, the students may directly approach the Head of the Department with their grievance.

For redressal of grievances with reference to evaluation at the University level, following steps are followed:

- The students may apply for scrutiny or review of answer scripts, which is duly forwarded by the College authority.
- The University has provisions to show answer scripts under RTI. The College provides complete support to any individual student who wishes to assess the evaluation of one's scripts through this method.
- Students can also approach the Controller of Examinations or the Vice-Chancellor for intervention on their part, with regard to any anomalies. The institution supports the students' cause in such cases.

2.6. Student performance and Learning Outcomes

2.6.1 Does the college have clearly stated learning outcomes? If 'yes' give details on how the students and staff are made aware of these?

One of the missions of the College pertains to the all-round development of its students. Students are provided with the opportunities required to identify and develop their inherent qualities to help them flourish as responsible and sensitive citizens.

The College thus gives equal importance to:

Sports Activities – facilities for both indoor and outdoor sports activities are available at the College. Volley-ball courts and badminton courts have been set up. Table-tennis equipment have been refurbished. Competition for these court and table games are also conducted throughout the year. There is a well-equipped multi-gym facility in the College. The annual athletic meet provides a platform for the students to showcase their skills.

Yoga – Recently the College has also undertaken initiatives to facilitate the practice of Yoga. These programmes are organized in order to inculcate inner strength and confidence in each student so that they may be able to meet the challenges of life with courage and good sense.

Cultural Activities – Cultural programmes are organized annually through competitions, college social days and special programmes by departments to mark special days like Rabindra Jayanti, Bhasha Divas, Vana Mahotsava, Teachers' Day and so on.

Value based programmes on social and health issues like child rights, thalassemia, kala-azar, rights of the differently abled, gender sensitization, human rights etc. have been organized.

2.6.2 Enumerate on how the institution monitors and communicates the progress and performance of students through the duration of the course/programme? Provide analysis of the students' results/achievements (Programme/course wise for last four years) and explain the differences if any and patterns of achievement across the programmes/courses offered.

Table 2.16: Performance record of Students in Part-III Examination for last four years

UG Programme	2011	2012	2013	2014
Bengali	Candidates:48	Candidates:50	Candidates:52	Candidates:60
	1 st Class M-2,F-0	1 st Class M-0,F-1	1 st Class M-0,F-5	1 st Class M-0,F-5
	2 nd Class-42	2 nd Class-47	2 nd Class-46	2 nd Class-49
	General/PNC-04	General/PNC-02	General/PNC-01	General/PNC-06
English	Candidates:40	Candidates:47	Candidates:46	Candidates:54
	1 st Class M-2,F-1	1 st Class M-1,F-0	1 st Class M-2,F-2	1 st Class M-0,F-2
	2 nd Class-35	2 nd Class-42	2 nd Class-36	2 nd Class-48
	General/PNC -02	General/PNC-04	General/PNC -06	General/PNC-04
History	Candidates:47	Candidates:41	Candidates:43	Candidates:49
	1 st Class M-1,F-0	1 st Class M-0,F-0	1 st Class M-0,F-0	1 st Class M-0,F-0
	2 nd Class-45	2 nd Class-38	2 nd Class-36	2 nd Class-43
	General/PNC-01	General/PNC-03	General/PNC-07	General/PNC-06
Philosophy	Candidates:35	Candidates:40	Candidates:42	Candidates:33
	1 st Class M-0,F-12	1 st Class M-3,F-5	1 st Class M-3,F-1	1 st Class M-0,F-2
	2 nd Class-22	2 nd Class-30	2 nd Class-36	2 nd Class-29
	General/PNC-01	General/PNC-02	General/PNC-02	General/PNC-02
Political Science	Candidates:38	Candidates:39	Candidates:32	Candidates:41
	1 st Class M-0,F-1	1 st Class M-0,F-0	1 st Class M-0,F-1	1 st Class M-1,F-2
	2 nd Class-32	2 nd Class-35	2 nd Class-26	2 nd Class-35
	General/PNC-05	General/PNC-04	General/PNC-05	General/PNC-03
Sanskrit	Candidates:22	Candidates:31	Candidates:28	Candidates:35
	1 st Class M-1,F-3	1 st Class M-1,F-4	1 st Class M-0,F-6	1 st Class M-2,F-2
	2 nd Class-17	2 nd Class-24	2 nd Class-21	2 nd Class-29
	General/PNC-01	General/PNC-02	General/PNC-01	General/PNC-02

Botany	Candidates:16	Candidates:19	Candidates:10	Candidates:21
	1 st Class M-1,F-3	1 st Class M-0,F-3	1 st Class M-0,F-0	1 st Class M-1,F-9
	2 nd Class-12	2 nd Class-14	2 nd Class-9	2 nd Class-10
	General/PNC-0	General/PNC-02	General/PNC-01	General/PNC-01
Chemistry	Candidates:16	Candidates:15	Candidates:24	Candidates:13
	1 st Class M-1,F-3	1 st Class M-6,F-3	1 st Class M-10,F-2	1 st Class M-8,F-3
	2 nd Class-12	2 nd Class-5	2 nd Class-9	2 nd Class-1
	General/PNC-0	General/PNC-01	General/PNC-03	General/PNC-01
Geography	Candidates:37	Candidates:35	Candidates:31	Candidates:34
	1 st Class M-6,F-1	1 st Class M-3,F-0	1 st Class M-1,F-0	1 st Class M-2,F-5
	2 nd Class-29	2 nd Class-30	2 nd Class-27	2 nd Class-24
	General/PNC-1	General/PNC-02	General/PNC-03	General/PNC-03
Economics	Candidates:07	Candidates:7	Candidates:01	Candidates:05
	1 st Class M-0,F-0	1 st Class M-0,F-0	1 st Class M-0,F-0	1 st Class M-0,F-0
	2 nd Class-05	2 nd Class-4	2 nd Class-1	2 nd Class-03
	General/PNC-02	General/PNC-03	General/PNC-0	General/PNC-02
Mathematics	Candidates:14	Candidates:21	Candidates:38	Candidates:39
	1 st Class M-7,F-2	1 st Class M-8,F-4	1 st Class M-15,F-7	1 st Class M-5,F-9
	2 nd Class-04	2 nd Class-08	2 nd Class-14	2 nd Class-24
	General/PNC-1	General/PNC-01	General/PNC-02	General/PNC-02
Physics	Candidates:14	Candidates:13	Candidates:19	Candidates:19
	1 st Class M-6,F-3	1 st Class M-7,F-2	1 st Class M-0,F-3	1 st Class M-7,F-2
	2 nd Class-5	2 nd Class-04	2 nd Class-14	2 nd Class-10
	General/PNC-0	General/PNC-0	General/PNC-02	General/PNC-0
Zoology	Candidates:19	Candidates:15	Candidates:20	Candidates:27
	1 st Class M-3,F-6	1 st Class M-1,F-2	1 st Class M-2,F-4	1 st Class M-1,F-8
	2 nd Class-10	2 nd Class-10	2 nd Class-12	2 nd Class-17
	General/PNC-0	General/PNC-02	General/PNC-02	General/PNC-01
B.A General	Candidates: 223	Candidates: 241	Candidates: 250	Candidates:198
	1 st Class-0	1 st Class-2.48%	1 st Class-0	1 st Class-2.52%
	2 nd Class-13.4%	2 nd Class-79.6%	2 nd Class-7.20%	2 nd Class-88.89%
	P division-83.4%	P Division-	P Division-74%	P Division-
	Passed- 96.86%	Passed-82.15%	Passed-81.2%	Passed-91.41%

B.Sc. General	Candidates:34	Candidates:89	Candidates:19	Candidates:42
	1 st Class-5.88%	1 st Class-8.98%	1 st Class-5.2%	1 st Class-11.9%
	2 nd Class-20.58%	2 nd Class-82%	2 nd Class-57.80%	2 nd Class-78.57%
	P division-29.4%	P Division-	P Division-	P Division-
	Passed- 55.88%	Passed-91.01%	Passed-63%	Passed-90.47%

Table 2.17: Performance record of PG Students in last four years

PG Programme	2011	2012	2013	2014
M.A	Candidates:26	Candidates:27	Candidates:29	Candidates:26
	1 st Class- 23.07%	1 st Class- 55.5%	1 st Class-41.3%	1 st Class-53.8%
	2 nd Class-76.9%	2 nd Class-45.4%	2 nd Class-58.6%	2 nd Class-46.2%
	Passed – 100%	Passed – 100%	Passed – 100%	Passed – 100%
M.Sc.	Candidates:44	Candidates:68	Candidates:60	Candidates:65
	1 st Class- 90.9%	1 st Class- 88.2%	1 st Class-91.6%	1 st Class-84.6%
	2 nd Class-9.1%	2 nd Class-11.7%	2 nd Class-8.3%	2 nd Class-15.4%
	Passed – 100%	Passed – 100%	Passed – 100%	Passed – 100%

The progress and performance of every student is closely monitored throughout the course by the respective departments.

- After each internal examination, results are displayed on the departmental notice boards. After the declaration of University results, the same is displayed on the College notice board.
- The IQAC monitors the results of the students and tries to overcome any lacuna in the teaching-learning process in consultation with individual Departments.
- The Departments organize Parents-Teachers Meeting where teachers discuss the performance of students and suggest ways of improvement.

2.6.3 How are the teaching, learning and assessment strategies of the institution structured to facilitate the achievement of the intended learning outcomes?

The Institution promotes learning through assignments, seminars, project works and practical sessions, through which the students acquire and develop skill in collecting, processing and presenting relevant data, and also develop dexterity in communication, co-ordination, planning management and academic writing.

The Institution encourages field visits and other such academic engagements by which the students develop their knowledge, consciousness on conservation and nature and social orientation. Students and staff are made aware of these through academic calendar, classroom teaching and interactive sessions. A basic computer-training course is arranged within the College campus for all students, in collaboration with NIELIT.

PG departments equip their students to undertake quality jobs with higher education and materialize their career ambitions. The Career Counselling Cell of the College and the College Library stocks resource materials containing information on recruitment processes, higher education institutions and quality jobs. Co-curricular group activities like NSS and cultural programmes foster self-development, community service, national integration and accountability towards the society in general.

2.6.4 What are the measures/initiatives taken up by the institution to enhance the social and economic relevance (student placements, entrepreneurship, innovation and research aptitude developed among students etc.) of the courses offered?

In the introductory classes of any course, teachers make the new students aware of the social and economic relevance of the course. Teachers focus on how the study of the courses can be economically and socially significant and explain the job opportunities and scope of further studies and research work in the respective subject. Departments organize invitational lectures to discuss the issues relating to impact of studying the subjects in the society.

The UGC Funded Entry-in-Services Course offers guidance to the students for qualifying in different competitive examinations. Many aspirants of this institution and others have benefitted from such course. However, it is the Career Counseling Cell of the College which takes active role to inform the students about different career opportunities. Various such programmes of the Cell is being shown in the following table.

Table 2.18: Various Industry Interaction Initiatives

Year	Date	Institute/Organization/Expert	Topic/Area
2013	11.03.13	IFB Agro Industries Ltd.	Career in Fisheries (for students of Zoology)
	11.03.13	EPITOME	Career Orientation
	11.03.13	IIJT	Career Orientation
	11.12.13	NIC Institute of Technology “STAR PROJECT PROGRAM” Launched by Ministry of Finance, Govt. of India	Skill Development of the Unemployed Youth
	11.12.13	District Employment Exchange, Barasat, North 24 Pgs.	Career Talk
	22.07.13	Digital Network Appliances	Network
	22.07.13	5 Teachers Group	WBCS Examination
2014	26.08. 14	Consulting Management Incorporate Pvt. Ltd.	Personality Development
	26.08. 14	Pidilite	Profession in fabric related work
	26.08. 14	ITM-Group of Institution	Career building
	09.09.14	ICFAI Group	Soft Skill Development & Group Discussion
	09.09.14	The George Telegraph Training Institute. “Barasat Group”	Professional Courses & their Prospects
	19.11.14	Eastern Institute for Integrated Learning in Management (EILM)	Workshop on CV Writing, GD skills, Interview skills, and Career Counselling
	03.12.14		
	10.12.14		
	18.12.14		
2015	16.03.15	BRAINWARE	Engineering & Technological Courses & Vocational Courses
	16.03.15	RTG Animate – Animation Academy	Animation Courses & Prospects

2.6.5 How does the institution collect and analyze the student performance and learning outcomes and use it for planning and overcoming barriers of learning?

- Each department maintains data of the students’ performance in college and university examinations. These data are analyzed and reviewed by the IQAC. If any matter requires general discussion, it is discussed in the Teachers’ Council Meeting. These data are also used to prepare the Annual Quality Assurance Reports and annual AISHE reports.

- In the Departmental Meetings, the performance of the students is discussed. Slow learners are identified and tutorial/remedial classes are arranged for them. The feedbacks from the Parents-Teachers Meeting of each department are also collected and analyzed by the IQAC.

2.6.6 How does the institution monitor and ensure the achievement of learning outcomes?

The institute tries to monitor and ensure the quality of the teaching-learning in various ways.

- The departmental teachers constantly monitor the performance of the students. Besides judging their performance through classroom teaching, Departments arrange for surprise tests.
- The Principal of the college constantly interacts with the Departmental Heads and with individual teachers, to improve the quality of teaching process and increase the academic productivity. The Principal also monitors the Daily Self-Appraisal of individual teachers.
- The IQAC makes suggestions to the departments regarding the effective way of teaching-learning. The performance of the teachers gets reflected in the Annual Quality Assurance Report. Assessment of formal and informal feedbacks from different stakeholders help the process of monitoring the teaching and learning in the college.



Photograph 2.6: PG students during an Examination

2.6.7. Does the institution and individual teachers use assessment/evaluation outcomes as an indicator for evaluating student performance, achievement of learning objectives and planning? If 'yes' provide details on the process and cite a few examples.

Yes, the institution and individual teachers use assessment outcomes as an indicator to evaluate student performance, achievement of learning objectives and planning.

The institution and the faculty members assess the students on the basis of the internal examinations like class tests/tutorial tests etc. After the evaluation of the answer scripts, the teachers show the evaluated answers scripts to the students pointing out the deficiencies of the answer. This helps the students to identify and consequently rectify their errors and achieve good performance in the university examination.

On the basis of the individual assessment of the students, the faculty members guide different students for different openings. Often advanced learners are groomed for advanced courses whereas slow learners are encouraged to elevate their academic level.

Any other relevant information regarding Teaching-Learning and Evaluation which the college would like to include.

The College encourages inter-department interactions through organization of academic and co-curricular events in order to break down the myopic compartmentalization of learning. Inter-disciplinary seminars organized by humanities departments also witness enthusiastic participation from faculties of science disciplines. Students from all the departments participate in the discussions. The Department of Comparative Literature, *West Bengal State University*, conducted a workshop on *The Prospects of Comparative Literature* (Jan 07, 2015) to encourage students to break-down conventional barriers and adopt holistic learning. In future, the College also intends to avail the scope of virtual laboratories, open educational resources, mobile education and collaborative programmes with other institutes.

CRITERION – III

RESEARCH, CONSULTANCY **AND EXTENSION**

CRITERION III: RESEARCH, CONSULTANCY AND EXTENSION**3.1. Promotion of Research****3.1.1 Does the institution have recognized research center/s of the affiliating University or any other agency/organization?**

Teachers of both postgraduate and undergraduate departments are involved in active research work which is reflected by a considerable number of major and minor research projects sponsored by UGC and other funding agencies (Please refer to 3.2.7). Many teachers of the college are also involved in guiding students for doctoral work in Ph.D. level under affiliation of WBSU and other universities all over India (please refer to section 3.1.5).

3.1.2 Does the Institution have a research committee to monitor and address the issues of research? If so, what is its composition? Mention a few recommendations made by the committee for implementation and their impact.

Yes, a Research Committee is formed in accordance with UGC guidelines, representing both the Arts and Science streams whose composition is as follows:

1. Principal
2. Prof. Pradip Mukherjee (Convenor), Department of Physics
3. Dr. Arup Bandhyopadhyay, Associate Professor, Department of Chemistry
4. Dr. Basabi Roy Chowdhuri, Associate Professor, Department of English

The Committee informs teachers about various Research schemes and Fellowships as advertised by different Govt. and other funding agencies, encourages them to apply for the same and screens project proposals funded by different agencies.

A large number of successful projects (Table 3.6) bear testimony to the way the Committee promotes and directs research in the College.

Recommendations of the committee:

- To encourage Faculty members who are yet to pursue the PhD to register forthwith. The basic concept is to encourage the teachers for academic excellence and for newly developed Career Advancement Scheme (CAS) criterion.

- Teachers who have completed PhD are encouraged to carry out inter and intra departmental collaborative research in possible cases. Followings are the few examples of sanctioned Major/Minor research projects recommended by the Research Committee.

Table 3.1: Select Research Projects as per Recommendation of the Research Committee

Sl No.	Title of the project	Name of the Teacher and Department	Funding agency	Sanction No. and Duration
1.	Sakaler Puran	Antara Banerjee, Department of Sanskrit	UGC Minor Project	PHW-251/13-14 dt. 18.03.2014
2.	Surrogate Motherhood: Empowerment or Exploitation	Mrinal Kanti Sarkar, Department of Philosophy	UGC Minor projects	PHW-250/13-14 ID No. WBS-039 dt. 18.03.2014
3.	Synthesis, Characterisation and Electrochemical study of Graphene/manganese dioxide nano composite	Dipanwita Majumdar, Department of Chemistry	UGC Minor Research Project	PSW- 145/13-14 (ERO) dated 18.03.2014
4.	Morphological, palynological and molecular characterization of eastern Himalayan <i>Capsicum</i>	PI: Dr. Saikat Naskar, PG dept. of Botany; Co-PI: Prof. T.B.Jha	UGC Major Project	Yet to be sanctioned

- Faculty members will be motivated to avail financial assistance for research from different organizations and agencies like UGC, DST, CSIR etc.
- Faculties are asked to submit a copy of the report of the project to the Research Committee. Recommendation of the Committee members is mandatory before the proposals are forwarded to the Principal for submission to the respective funding agencies.
- To increase inter-disciplinary interactions through collaborative seminars. Several such seminars have been organised by both arts and science departments. (Details in Table 3.8)

Impact:

The successful functioning of the research committee is obvious from

- a) the number of ongoing/completed minor/major research projects that the Institution has supported in the last five years;
- b) the respectable number of state/national level seminars and workshops organised severally by different departments in this period;
- c) the increase in the number of students' seminars that have been organised in this period, proving a developing research culture among the students.

3.1.3 What are the measures taken by the institution to facilitate smooth progress and implementation of research schemes/projects?

Institutional support is provided to enable implementation of research schemes in the following ways:

- Full autonomy is given to the Principal investigator for smooth conduct of the research project.
- Funds sanctioned by the different agencies are released without delay as and when required by the researcher.
- The College provides major infrastructural facilities like library, laboratory, computer and internet facilities to pursue research activities. Central Instrument Facility containing sophisticated instruments are available (especially for Science departments) to researchers to carry out advanced investigations.
- Teachers in general are permitted to carry out their research work during summer and Puja vacations. Besides, one day per week is allotted for preparatory/research work. There is also a provision for Study Leave as per WBSR with prior approval from the Higher Education Department for completing research work. The teachers may also avail this facility under FDP scheme of UGC if required.
- Teachers who are pursuing M.Phil. / PhD and required to attend Course Work are provided with flexible working schedule. Duty Leaves are given to interested teachers who will present papers/participate in seminars and conferences.
- Laboratory facilities, equipments, Internet, LAN and other ICT enabled research support system, etc. are made available to researchers (details in Section 3.3).
- All research grants and expenditure are audited by qualified auditors of auditing firms. The final audit report and Utilisation Certificates are sent to the funding agencies in due time.

3.1.4 What are the efforts made by the institution in developing scientific temper and research culture and aptitude among students?

The major steps taken to enhance the research environment and scientific disposition among students are:

- Increase in Seminars expose students to greater interactions beyond the syllabi and develop their research acumen.
- Special Lectures by eminent academicians and researchers are organised in order to instil research interests in students
- Dissertations with viva-voce are mandatory in PG programmes. This ensures that each student has an opportunity to demonstrate their individual research aptitudes.
- Seminar Library sessions allow students to access important books and be guided towards important journals/books by their teachers. PG students, in particular are encouraged to read recent research papers.
- Departmental seminars, student seminars, science based contests, exhibitions, training programmes are regular features of both UG and PG programmes.
- Workshops on emerging techniques (e.g. Biosciences) are organised and eminent scientists are invited to impart hands on techniques to the students.
- Access of online journals through INFLIBNET and off-campus library facility through institutional membership of British Council Library has been introduced to enhance the research environment.
- Several UG and PG Departments offer special modules on interdisciplinary and emerging areas in gender and films.
- The Undergraduate course of Geography incorporates Field Work (carrying 25 marks in B.Sc. Part-III Hons.) where the students have to submit a Field Report working as a Team. Excursions and educational tours (included in Field work) are compulsory in the UG and PG curriculum of Zoology and Botany as well. This inculcates research orientation and interest among the UG as well as PG students. Some of the places visited by the students of these Departments are given below:

Table 3.2: List of Educational Excursions and Field Visits organized by Different Departments

Department	Place of Educational Excursion	Year of Visit
Botany*	Darjeeling and Sikkim, B.Sc. 2nd year	November 2010
	Uttarakhand, M.Sc. Sem-III	September 2010
	Uttarakhand, M.Sc. Sem-III	September 2011
	Madhyapradesh, B.Sc. 2nd year	November 2011
	Uttarakhand, M.Sc. Sem-III	September-October 2012
	Darjeeling and Dooars, B.Sc. 2nd year	November 2012
	Shilong, M.Sc. Sem-III	October 2013
	Darjeeling and Sikkim, B.Sc. 2nd year	November 2013
	Mangalore, Ooty, Mysore, M.Sc. Sem-III	September 2014
	Darjeeling and Sikkim, B.Sc. 2nd year	November 2014
Zoology	Bandhavgarh and Kanha National Park Zoological Garden and National Museum, Kolkata	2011-2012
	Kanha National Park Zoological Garden and National Museum, Kolkata	2012-2013
	Gir and Narara National Park Navegaon Nagzira Tiger Reserve Zoological Garden and National Museum, Kolkata	2013-2014
	Bandhavgarh National Park, Buxa Tiger Reserve, Zoological Garden and National Museum, Kolkata	2014-2015
Geography	Panchmari, Madhya Pradesh	2010-2011
	Falti-Beliaghata	2011-2012
	Munnar, Kerala	2012-2013
	Vizag-Araku, Andhra Pradesh	2013-2014
	Jabalpur, Madhya Pradesh	2014-2015

*Department of Botany also conducted two local excursions each year for both UG and PG students at Jagadish Chandra Botanical Garden, Shibpore and surrounding areas of Barasat.

The postgraduate courses of Botany, Zoology and Physics incorporate field work and individual dissertation work for their M.Sc. students, which lay the foundation for research activity. The PG students are made to involve in various field work and data collection purposes in order to train them in some of the methodologies that are regularly used in research work.

Table 3.3: Select Dissertations by PG students

Department	Topic of Research	Name of student	Year	Supervisor
Physics	Probing Atoms by Scanning Tunnelling Microscope	Rahul Ghosh	2014	Dr. Sankar Mondal
	Action Principles: the role of the boundary terms	Reet Chanda	2014	Dr. Pradip Mukherjee
	The Mysterious behaviours of the Abraham Lorentz equation	Souvik Das	2015	
	Dynamical system analysis of Quintessence dark energy model.	Soumik Aon (WBSU)	2015	
	Dynamical system analysis of ghost condensate dark energy model revisited.	Jani Islam (WBSU)	2015	
	Unity in different formulations of Quantum Mechanics: A Study taking the simple harmonic oscillator as an example.	Koushik Jana	2015	
	Chaos in electronic circuit	Atanu Kabiraj	2015	Dr. Srijit Bhattacharyya
	Chaos in diode	Putul Kundu	2014	
	Investigation of the origin of sound from bubble rupture in boiling water	Sandipan Majumder	2015	
	Superconductivity & Levitation	Sayani Majumdar	2014	Dr. Dhananjoy Roy
	Solar Cell: Management of Power and Pollution	Bijan Halder	2015	
	A Numerical Study on Oscillation: Scopes and Difficulties	Sukhendru Jana	2014	
	Ingradients of Chaotic System: A nonlinear oscillation approach	Subhankar Roy	2015	Dr. Somnath Bhattacharyya
	On Quantum Measurement Problem and Bell's Inequality	Dibyendu Deb	2014	Dr. Jyotirmoy Maiti
	Ladder operator approach in Quantum Mechanics	Debashish Debnath	2015	
	Origin and Evolution of magnetic field in neutron star by magnetic flux freezing method	Bhaskar Majumder	2014	Sutapa ghosh
	Switched capacitor circuit analysis	Ankan Hari	2014	Mina Mazumder
	Relativistic particle model revisited	Esadul Islam	2014-15	
	Unity in different formulations of Quantum Mechanics: A Study taking the simple harmonic oscillator as an example.	Moumita Das	2014-15	

Bengali	Parasuramer- Religion	Ria Ghosh	2014-15	Dr. Manju Mandal
	Fiction	Apurba Kumar Pal	2014-15	
	Drama 19th century and Bengali Drama	Rojina Khatun	2014-15	
	Novel	Swapna Dutta	2014-15	Dr. Rita Ghosh
	Modern Poetry	Soma Dey	2014-15	
	Tagore Literature	Susmita Das	2014-15	
	Novel	Bakul Mazumder	2014-15	
	Short story	Ramen Das	2014-15	Sandip Kumar Patra
	Drama	Tanmoy Mondal	2014-15	
	Lyric Poetry 19th Century	Sujata Sarkar	2014-15	
	Novel	Subhadra Nath	2014-15	
	Rabindranath: Short Story as Narative	Debanjana Banerjee	2014-15	Manas Kundu
	Rabindranath: Novel as Narative	Mitali Bhattacharyya	2014-15	
	Rabindranath: On Music	Nabanita Saha	2014-15	
	Mahasweta Debi: 'Subaltern World'	Rakhi Biswas	2014-15	
	Rabindranath: Dramatic World	Arpita Roy	2014-15	
	Katha Sahitya	Avik Dutta	2014-15	Piali Khan
	Short Stories	Barnali Talukdar	2014-15	
	Novel	Madhumita Roy	2014-15	
	Short Stories	Sangita Tarafder	2014-15	
	Short Stories	Lakshmi Mondal	2014-15	

Botany	Biochemical and antimicrobiological properties of fruiting bodies of <i>Pleurotus fossulatus</i> obtained from submerged fermentation	Manisha Maity	2015	Dr. Nirmalendu Das
	Effect Of Organosphate Pesticide (Dimethoate) On Some Cyanobacteria	Subhra Prakash Biswas	2015	Sri Benudhar Mandal
	Gene Duplication & Salt Tolerance - Case Study On Arabidopsis & Brassica	Sonali Saha	2015	Dr. Paramita Nandi
	The study of poaceae family in the light of morphology and anatomy	Manjima Mukherjee	2015	Dr. Saikat Naskar
	Study of Salinity and Drought Stress on Two Varieties of Rice Plants	Taniya Sanyal	2015	Dr. N. C. Karmakar
	Effect of temperature during preservation of (musa sapientum l.)	Riya Chandra	2015	Dr. Kunal Sen
	Comparative biochemistry of five major vegetables of cucurbitaceae family	Sarbani Chakroborty	2015	Dr. Kunal Sen & Dr Subhra Talai
Zoology	Effect of anti malarial and anti depressant drug on treatment of leishmaniasis	Subhankar bhowmick	2014-15	Dr. Madhumita Manna
	Molecular diagnosis of leishmaniasis	Subhankar bhowmick	2014-15	
	Present status of food-borne parasitic zoonoses in India	Jayeeta Mukherjee	2014-15	
	Stress and its effect on immune system	Suchitra Guha Thakurata	2014-15	
	Multidrug resistance	Pinki Ghosh.	2013-14	
	DNA Vaccine for the neglected tropical disease : Leishmaniasis	Pinki Ghosh.	2013-14	
	Phytotherapy against the Leishmania Parasites	Shilpi Rani Kundu.	2013-14	
	Neglected tropical disease	Shilpi Rani Kundu.	2013-14	Dr. Debajyoti Chakrabarty
	Reducing Hilsafish on Gangetic Basin	Soumen Roy	2014-15	
	Ecological Resilience	Soumen Roy	2014-15	
	Small Indigenous fish of India and Bangladesh as Source of nutrition	Paramita Banerjee	2014-15	
	Medical importance of fish	Paramita Banerjee	2014-15	

Vermicomposting – a Farm Visit	Tanaya Kar	2013-14	
Molluscicidal Properties of Natural Plants	Tanaya Kar	2013-14	
A review on the diminishing ichthyofaunae diversity in the riverine system of Sunderban due to uncontrolled prawn seed collection	Shubhajit Saha	2013-14	
Culture, maintenance and acute toxicity testing of copper sulphate on the fresh water snail-Bellamya bengalensis	Shubhajit Saha	2013-14	
Vermicomposting	Keya Halder	2013-14	
Fish Sanctuary-A possibility	Keya Halder	2013-14	
Phosphorus Cycling	Dixie Ghosh	2012-13	
Fish Migration	Nibedita Sarkar	2012-13	
Drinking bottled water in India	Antu Bhattacharya	2014-15	Dr. Tuhin Kumar Saha
Green plastics –an alternative for petroleum based plastics	Antu Bhattacharya	2014-15	
Life in high altitude lake	Loknath Biswas	2014-15	
Effect of temperature on the distribution of soil micro-arthropods at a brick manufacturing kiln	Loknath Biswas	2014-15	
Rice bran oil: The healthy oil	Tua Paul	2013-14	
Indian species and herbs and their effect on human health	Tua Paul	2013-14	
Recent trends of friendly decomposer	Subham Nandy	2013-14	
Electronic wastes and its hazards	Subham Nandy	2013-14	
Arsenic consuming bacteria and its future aspects	Susanta Das	2013-14	
Spider silk and its applications	Susanta Das	2013-14	
Life in hot desert	Mahua Mallick	2012-13	
A pilot study to assess the level of elements in flesh of Labeo rohita and Hilsa ilisa	Mahua Mallick	2012-13	
Ocean acidification	Pubali Ray	2012-13	
Relevance of prebiotics and probiotics today	Pubali Ray	2012-13	
High altitude lake in eastern India	Purnima Karmakar	2012-13	
Use of bio indicator in the evaluation of toxicity in aquatic ecosystem	Purnima Karmakar	2012-13	

Animal defense against predators	Kantu Mondal	2014-15	Dr. Sanjay Podder
Coral reef: How they are impacted by climate change?	Kantu Mondal	2014-15	
Exposure to fine particulate air pollution increased risk of autism	Soumita Biswas	2014-15	
Salamander is an abundant food source of forest ecosystem	Soumita Biswas	2014-15	
Fluorosis	Sudipta Kanrar	2013-14	
Bio-mimicry	Sudipta Kanrar	2013-14	
Immediate hypersensitivity to house dust and house dust mites among Kolkata population	Sanghamitra Guha	2012-13	
Formalin, a formidable carcinogen, rampant in edible fishes in markets-its detection and effect on carps, probable impact on consumers	Aritra Ghosh	2014-15	Dr. Tanaya De
Impact of certain traits of blue- head wrasse in ecology	Aritra Ghosh	2014-15	
In the shadows of illumination-effect of artificial light on the ecology of birds and mammals	Sangita Das	2014-15	
Behavioural changes in animals undergoing domestication	Sangita Das	2014-15	
Non-human primate behaviour and the effect of captivity on it	Prodipta Roy	2013-14	
Non human primate language	Prodipta Roy	2013-14	
Visual pollution and its aspects at few places in West Bengal	Milan Kumar Jana	2013-14	
Depletion of polar ice cap	Milan Kumar Jana	2013-14	Dr. Debjani Sarkar
Primary amoebic meningoencephalitis	Samriddhi Sen	2014-15	
Childhood acute lymphoblastic anaemia	Samriddhi Sen	2014-15	
Targetted therapies in cancer	Himadri Nath	2014-15	
Tristetraprolin- its role in inflammation and cancer	Himadri Nath	2014-15	
Inflammation and autoimmune disease	Priya Prasad	2013-14	
Superantigens	Priya Prasad	2013-14	
Advantages and disadvantages of synthetic drugs on inflammation	Moutan Chakraborty	2013-14	Dr. Debjani Sarkar
Xenografting	Moutan Chakraborty	2013-14	

Immunological aspect of malaria	Monidipa Das	2012-13	
Genetic transformation of parasitic protozoa	Monidipa Das	2012-13	
Immunological aspect of SARS	Debadrita Paul	2012-13	
Herbs used in cancer management	Debadrita Paul	2012-13	
Immunological aspect of rheumatoid arthritis	Pamela Sarkar	2012-13	
Antibody based immunotherapy of cryptosporidiosis	Pamela Sarkar	2012-13	
Effects of chromium (VI) toxicity on murine peritoneal macrophages and chromium induced histological changes of pancreatic islets and liver: A Preliminary study of metal induced diabetes development(project)	Brintasree Chackraborty	2014-15	Dr. Srikanta Guria
Highly Active Anti Retroviral therapy on AIDS- status and prospects (Review)	Brintasree Chackraborty	2014-15	
Hepatitis B & its therapeutic approaches (Review)	Moumita Banerjee	2014-15	
Molecular Mimicry-A Possible Cause Of Human Diseases	Moumita Banerjee	2014-15	
Cytomorphology of mice peritoneal macrophages, spleen cells and histological analysis of tissues under Eltroxin induced hyperthyroid condition(project)	Juin Mondal	2013-14	
Cancer immunotherapy	Juin Mondal	2013-14	
Role of Macrophages in Atherosclerosis: Risk of Cardiac Arrest (Review)	Nabanita Majumder	2013-14	
Traversal of pathogen through blood-brain barrier, insight mechanism	Nabanita Majumder	2013-14	
Role of Macrophages in Alzheimer's Disease (Review)	Madhurima Bose	2013-14	
Invertebrate immunity	Madhurima Bose	2013-14	
Anthrax and bioterrorism	Arpita Kundu	2013-14	Dr. Rupendu Roy
Sarcocystis- its morphology, lifecycle, pathogenecity and control.	Namita Nashkar.	2013-14	
Poem syndrome, a rare autoimmune disease	Arpita Kundu	2013-14	
Poultry coccidiosis	Namita Nashkar.	2013-14	

	How Ebv impairs recognition by CD8+ T cell?	Suman Karmakar	2014-15	Dr. Salil Kumar Gupta
	Coccidiosis in poultry birds	Md. Sahariar Sardar	2014-15	
	Chromobacterium and its entomopathogenic activities in malaria and dengue infection	Suman Karmakar	2014-15	
	Immunity and vaccination against H1N1 virus	Anwesha Banerjee	2014-15	
	Myiasis in human and domestic animals	Anwesha Banerjee	2014-15	
	Avian malaria	Sinjini Mukherjee	2014-15	
	Pathogenicity of Ebola virus	Sinjini Mukherjee	2014-15	
	Abundance and diversity of different necrophilous arthropods in fishes available in fish markets with reference to forensic entomology	Moumita Laha	2014-15	
	Diversity by ecology and management with bio-pesticides of insects and mites infesting pulps and oil seed crop	Moumita Laha	2014-15	
	Mites infesting fruit trees	Tanusree Ghoshal	2014-15	
	Biofuel production from algae	Tanusree Ghoshal	2014-15	
	Electric eels remotely control their prey	Indrani Adhya	2014-15	
	Insect Venom	Indrani Adhya	2014-15	
	Insects as food	Sharmistha Banerjee	2014-15	
	Insect Associated Mite	Sharmistha Banerjee	2014-15	
	Assessment of Baculovirus as insecticide	Sujit Sarkar	2013-14	
	Pathogens and predators of ticks and there potential in biological control – A review	Subrata Mondal	2013-14	
	Age, Sex and disease(Parasitic)	Debjit Debnath	2013-14	
	Insulin dependent diabetes mellitus-An autoimmune diseases	Debjit Debnath	2013-14	

- At the PG level **optional Special Papers** are offered to students as given in the Table below:

Table 3.4: Elective Special Papers in PG courses

Subject	Special Paper offered in PG programme	Semester	Marks
Zoology	Parasitology and Immunology	Sem- III, Sem-IV	210 marks
	Ecology and Environmental Biology	Sem-III, Sem-IV	210 marks
Botany	Plant Physiology, Biochemistry and Molecular Biology	Sem-IV	200 marks
	Taxonomy of Angiosperms and Biosystematics	Sem- IV	200 marks
	Genetics and Genomics	Sem- IV	200 marks
	Microbiology	Sem- IV	200 marks
	Ecology	Sem-IV	200 marks
Physics	Condensed Matter Physics	Sem IV	100 marks (T) + 50 marks (P)
	Astrophysics	Sem-IV	50 marks
	High Energy Physics	Sem-IV	50 marks
	Physics Teaching Methodology	Sem-IV	50 marks
Bengali	Rabindra Sahitya	Sem-IV	200 marks
	Katha Sahitya	Sem-IV	200 marks

- Some departments (eg. History, Philosophy) arrange educational tour which also induces research orientation among the students.
- Availability of 80,541 books (including old and rare books) and about 50 journal titles across the fields in the library provides the students of the college the opportunity of having a treasure of knowledge. Access to online journals through INFLIBNET and British Council Library adds to this wealth.
- Students are frequently sent to different quiz contests (on or off-campus), debates etc. related to their respective disciplines so that they acquire recent knowledge.

3.1.5 Give details of the faculty involvement in active research (Guiding student research, leading Research Projects, engaged in individual / collaborative research activity, etc.

- Most faculties of the PG Departments (Physics, Zoology, Bengali, and Botany) supervise the project work and/or dissertation of PG students that is a mandatory part of the curriculum.
- Some of the faculty members are also involved in guiding students for doctoral research. Their details have been provided in the following Table.

Table 3.5: Faculty members as supervisor of doctoral research

Name of the Faculty with Department	Name of the student	Topic of Research	Status	Registration No./ name of University
Dr. Madhumita Manna, Department of Zoology	Sanchita Datta	An Approach to develop an immunotherapeutic and prophylactic agent by attenuated leishmania parasite.	PhD degree Awarded 2014	Jadavpur University
	Supriya Khanra	Analysis of the Genome and Genetic markers of the clinical isolates of Indian Kala-azar for molecular taxonomic purpose.	Submitted Thesis, 2015	Reg. No. 33/12/Life Sc./21 under Jadavpur University
	Sangita Lahiri	Assessment of Anti Leishmanial activities of some medicinal plants of India	Ongoing	Cleared RET in Jadavpur University Yet to be registered
	Piyali Das (MBBS)	Association of Oxidative stress and obesity in type II diabetes mellitus in Indian Population	Ongoing	Registered in West Bengal University of Health Sciences
Dr. Debojyoti Chakraborty Department of Zoology	Himadri Pal	Evaluation of some alternative (low cost) feed sources for cat fish (<i>Heteropneustes fossilis</i>) [Bloch, 1794] and <i>Clarias batracus</i> [Linnaeus, 1758]	PhD degree Awarded 2014	Reg. no. 1050103360 under Singhaniya University, Rajasthan

Dr. Sanjoy Poddar Department of Zoology	Sampa Dutta	Molecular Mechanism associated with allergic manifestation in response to common aeroallergens	Ongoing	Reg no. 0504 Ph. D.(Sc.) Proceed/13 under Calcutta University
Dr. Paramita Nandy, Dept. of Botany	Nirjhar Dasgupta	Certain Biochemical and Molecular Aspects of some mangrove Taxa from Indian Sundarbans towards efficient salt management and sustainability	PhD degree Awarded 2014	Kalyani University
Dr. Nirmalendu Das Department of Botany	Pratik Chowdhury	Comparative Study of Lignocellulose degrading enzymes during growth and development of <i>Pleurotus fossulatus</i> and evaluation of its nutritional and medicinal properties	Ongoing	Reg. No. 020654 of 2003-2004 under North Bengal University (Ref. No. Ph.D./Bot.(186)/357 1/R-2012 dated 30.11.2012
Prof. Pradip Mukherjee Department of Physics	Anirban Saha	Aspects of Symmetries in Field and String Theories	PhD degree Awarded 2009	Calcutta University
	Biswajit Pal	Investigations in Higher Derivative Field Theories	PhD degree Awarded 2015	Calcutta University
	Arpita Mitra	Non Relativistic Diffeomorphism invariance and its Application	Ongoing	Reg. No. 5709/ Ph.D (Sc) Proceed/2014 Calcutta University
Dr. Rajnarayan Gupta, Department of Economics	Dr. Prosenjit Ghosh	The Determinants in Agricultural prices in India since Liberalisation	PhD degree Awarded in 2012	Jadavpur University

- Many faculty members have completed or have been pursuing a number of research projects during the last four year period. The details of the research projects are given in the following table:

Table 3.6: Major/Minor Research Projects (completed and ongoing)

Name of the Faculty	Title of Project	Duration Year	Funding Agency	Grant Sanctioned	Grant Received
Ongoing Research projects					
Prof. Timir Baran Jha	Karyosystematic Analysis of Indian Lentils Through Fluorescent Chromosome Banding (yet to be implemented)	2015-just sanctioned	UGC-Major	16 L	Yet to receive
Dr. Madhumita Manna, In Collaboration with 1.Gauhati Medical College, Assam 2.National Medical College, Kolkata	Direct diagnosis and characterization of the causal agents of Kala-azar from North East and Eastern region of India by molecular methods.	January 16, 2013 - 2016	Department of Bio-technology (DBT), Govt. of India [DBT TWINNING Programme for NE]	Rs. 99.98 Lakhs (L)	Rs. 28.28 L
Dr. Madhumita Manna	An Approach to develop an immunotherapeutic and prophylactic agent by attenuated leishmania parasite'	2011 - till date	CSIR	Rs.9.02 L	--
	Application of modern taxonomical methods for characterization of drug sensitive and drug unresponsive isolates of Kala-azar in India	2013 - till date	CSIR	Rs.6.01 L	--
Dr. Dipanwita Majumdar	Synthesis, Characterization and Electrochemical study of Graphene/manganese dioxide nano composite	2014- till date	UGC	5 L	3.45 L
Dr. Chandan Surabhi Das	Monitoring the Sundarban Ecosystem and its Livelihood using Geo-spatial Technique: A case study of Gosaba Block	2014-2016	UGC	4.15 L	2.975 L
Dr. Sankar Mandal	Development of Cathode Materials of Lithium Ion Battery as a Source of alternative Power storage system	2015- 2017	UGC	4.2 L	3.1 L
Dr. Nirmalendu Das	Comparative studies of <i>Pleurotusfossulatus</i> and other commercially cultivated oyster mushrooms (<i>Pleurotus</i> sp) with special reference to their yield, antioxidant and antimicrobial properties.	24 months from May 2014	UGC	3.70L	--

Dr. Srijit Bhattacharya	Analysis of Cellular Phone Tower radiation in residential area and its effect on human	2015- 2017	UGC	2.45 L	1.87 L
Dr. Mrinal Kanti Sarkar	Surrogate motherhood: empowerment or exploitation	2014- till date	UGC	2.5 L	2.07 L
Dr. Prabir Kumar Sen	Bergallini condensation: Expeditious synthesis of multifunctionalised acids	2012- till date	UGC	2 L	1.325 L
Dr. Somnath Bhattacharya	Early stage Dynamics of Nonlinear Systems and its effect on related properties.	2015- 2017	UGC	1.5 L	1.15 L
Dr. Prasanta Paul	On some entropy based measure of uncertainty and their properties	2015-till date	UGC	1.7 L	1.525 L
Dr. Antara Banerjee (Transferred)	Sakaler Puran	2014- till date	UGC	2.70 L	2.35 L
Completed Research Projects					
Prof. Timir Baran Jha	Analysis of Important Bioactive Compounds and Genomic DNA Polymorphism in <i>Swertia</i>	2009 - 2012	CSIR	16.9 L	16.9 L
	Documentation of Genetic and phytochemical variations and assessment of Immunomodulatory and Anti Cancer activities of <i>Gymnema sylvestre</i> (retz)r.Br & S and newly described species <i>Gymnema kollimalayanum</i> Ramach & M.B Viswan, from Eastern India and Western Ghats..	2012- 2015	ICMR	50 L	50 L
	Detection and Chemical analysis of myo-inositol biosynthesis in some vascular cryptogams under <i>in vivo</i> and <i>in vitro</i> conditions	2008 - 2011	UGC	7 L	7 L
Dr. Madhumita Manna	Influences of trace elements in the immune functions in visceral leishmaniasis and post kala-azar dermal leishmaniasis of India	2009-2014	UGC-DAE Consortium for Scientific Research, Kolkata Centre	8.5 L [approx]	8.5 L [approx]
Dr. Nirmalendu Das	Highly efficient and simple methods for the preparation of active laccase antibody conjugates for enzyme-immunoassay and immunoblots	Three years (from 2008 to 2010)	DBT	14.43 L	14.43 L
Dr. Sanjoy Poddar	Studies on the Aeroallergens of Kolkata and adjoining areas in relation to Masobronchial allergic disorders	2011-2014	WBDST	9.0 L	9.0 L

Dr. Saikat Naskar	Morphological and Histological Characterization and Cataloging of Diversity of Some Highly Salt Tolerant Species in Indian Sundarban Delta	18 months (16.11.2009 to 17.05.2011)	UGC	1.47 L	1.47 L
Dr. Subhra Talai Mukherjee	Study of Algal biodiversity in and around Kolkata	18 months (from 10.09.11 to 10.03.13)	UGC	1.36 L	1.36 L
Dr. Paramita Nandi	An attempt to study the regulation of L-myo inositol phosphate synthase gene (INO1) in <i>Avicennia officinalis</i> , in response to drought and salinity: a semi-quantitative approach.	18 months (from 2010 to 2012)	UGC	1.11 L	1.11 L
Dr. Mrinal Kanti Sarkar	Justification of the Application of Euthanasia in India	2010-2012	UGC	0.4 L	0.4 L
Dr. Sanjoy Poddar	Diversity of phytophagous and predatory mites infesting Tea in Darjeeling Hills and Terai region assessing the effect of mite feeding on biochemical component	2008-2010	UGC	0.625 L	0.625 L
Dr. Sudeshna Chattopadhyay	Impact of WTO on Indian Garment Industry	2012- 2014	UGC	1.37 L	1.29 L
Mriganka De Sarkar (Transferred)	Environmental Hazards of the Indian Thermal Power Plants	2011-2013	(ICSSR)	2.89 L	2.89 L

Many faculty members have acted as Resource persons in National/International Seminars and Conferences. The details are given in the Table below:

Table 3.7: Faculty members as Resource Persons

Faculty	Type of Participation	Date/Year
Dr. Rajnarayan Gupta	Delivered Invited lecture on "Indian Macroeconomic Scenario" at <i>Tech Mahindra</i> , Salt Lake, Kolkata	15 th September 2010
	Delivered Invited lecture on "Major Macroeconomic Issues" at <i>Mahindra Satyam</i> , Hyderabad	25 th November 2010
	Delivered Invited lecture on "Macroeconomic Theory and Policy" at <i>Tech Mahindra</i> , Pune	25 th and 28 th January 2011
	Took special classes on "Managerial Economics" at <i>Tech Mahindra</i> , Mumbai	1 st February 2011
	Delivered Invited lecture on "Overview of Macroeconomics" at <i>Tech Mahindra</i> , Noida	20 th May 2011
Dr. Sudeshna Chattopadhyay	Delivered an invited lecture on 'Industry Trade and Environment' to final Semester PG students in University of Calcutta	2015

Sujit Kr. Bhattacharyya	Acted as coordinator and counselor of courses offered by Netaji Subhas Open University	2014
Aznarul Islam	Delivered invited talk in Awareness Program on Prakriti Sanrakhan Dibas organised by WAPCOS in collaboration with Ministry of water Resource, Govt. of India	17 th June 2014
Aznarul Islam	Delivered Special Lecture on "Recent Issues in soil and Bio-Geography" organised by Department of Geography, Aliah University	27 th April 2015
Dr. Ruksanara Begum	Acted as counselor of courses offered by Netaji Subhash Open University	2014
Dr. Chandan Surabhi Das	Invited lecture at Shahid Nurul Islam Mahavidyalaya on 'Issues of Water Conservation'	July 25, 2014
	Invited lecture at Subarnarekha Mahavidyalaya on 'Water Crisis and Management'	January 13, 2015
Arpita Neogi Sengupta	Panelist in ICPR-sponsored Discussion "Philosophy and Philosophizing in Bengal" organized by the Department of Philosophy, West Bengal State University	19 th November 2013
	Chaired a session in the National level seminar on 'Language, Communication and Society' organized by West Bengal State University	19 th December 2014.
	Invited as a guest-faculty for a course in the 2 nd semester of P.G. Department of W.B. State University and took classes.	February 2014 to July 2014.
Debashree Dutta	Invited as a guest-faculty for a course in the 2 nd semester of P.G. Department of W.B. State University and took classes.	Since 2015
Manas Kundu	Visiting Professor, Belur Ramkrishna Mission, PG Department of Bengali	Since 2012
Rajkumar Chakrabarti	Delivered lecture at the PG Department of History, Fakir Chand College	1st February 2015
Prabal Bagchi	Delivered a lecture on "Idea of India" at Presidency College (FAEA Workshop)	December 2013
	Delivered extension lecture on "Popular culture in 19th Calcutta – its political economic background" at Mahadevananda College, Barrackpore	17 April 2014
Dr. Madumita Manna	Acted as Resource person UGC DAE pre PhD Course work	2010-2011
	Acted as Resource person in M. Phil. courses in Kalyani University and Calcutta University	2010-2011
Ranjan Kumar Ray	Visiting Professor, <i>Indira Gandhi Open University</i> , Eastern region, Kolkata.	Since 2007
Kinshuk Nandi	Invited as an expert to address at a Career Counselling Session for the UG students from the Department of Political Science during the 7th & 8th Career Fair, 2013 at Barrackpore Rastraguru Surendranath College	2013, 2014
Gouri Sankar Nag (Transferred faculty)	Visiting Professor of Department of Political Science, West Bengal State University	2011-2012

Dr. Basabi Roy Chowdhury	Delivered Lectures on "English literature and Language and Judicial Academy" at Bijan Bhaban, Salt Lake	2010, 2011, 2012
Swaty Mitra	Resource person for post graduate classes in Lady Brabourn College for Special session Doris Lessing's <i>Martha Quest</i>	September 2011
	Acted as Resource Person for <i>Netaji Subhas Open University</i>	2012-2015
	Invited speaker at Gokhale Memorial Girls' College	2015
Ambarish Sen	Delivered Lecture as resource person on English Language, Grammar and writing skills for preparation of WBCS (prelims) organized by employment exchange Barasat under labour Department, Govt. of W.B.	2014
Debjani Ray Moulik (Transferred faculty)	Chief Speaker at the release of a documentary film on <i>Binodini Dasi</i> at Rammohun Library.	July 5, 2013.
Dr. Sanat Kumar Saha	Acted as counselor for courses offered by <i>Netaji Subhas Open University</i>	2010-2014
Dr. Dipanwita Majumdar	Acted as counselor for courses offered by <i>Netaji Subhas Open University</i>	2010- 2014
	Delivered an invited talk at Lady Brabourne College (Kolkata) on "Formation Dynamics of V and Y shaped Polyaniline nanowires".	2010
	Delivered an invited talk on "Nanopesticides: A Challenging Domain of Current Research" at Panchkot Mahavidyalaya, Purulia.	2012
Dr. Nabakumar Bera	Acted as counselor for courses offered by <i>Netaji Subhas Open University</i>	2010-2012
Dr. Prabir K. Sen	Acted as counselor for courses offered by <i>Netaji Subhas Open University</i>	2010-2012
Dr. Soma Nath (Deoghor)	Acted as counselor for courses offered by <i>Netaji Subhas Open University</i>	2013-2014
Dr. Antara Banerjee (Transferred faculty)	Delivered an invited lecture at <i>Howrah Sanskrit Sahitya Samaj</i>	December 2012

- Many faculty members of different Departments are also actively engaged in collaborative research work with many leading institutions/organisation. Few examples are given below.
- Dr. Dipanwita Majumdar, Assistant Professor of Department of Chemistry is engaged in collaborative research with Prof. Swapan Kumar Bhattacharyya, Department of Chemistry, Physical Chemistry division, Jadavpur University, Kolkata.
 - Mina Mazumder, Assistant Professor of Physics started collaborative research programme with the Department of Theoretical Physics, IACS, Kolkata.
 - Dr. Sankar Mandal, Assistant Professor of Physics is continuing collaborative research with Professor D. Chakraborti (Emeritus Professor) at IACS, Jadavpur.
 - Dr. Srijit Bhattacharya, Assistant Professor of Physics collaborated with experimental Nuclear Physics Division at VECC, Kolkata.
 - Dr. Jyotirmoy Maiti, Assistant Professor of Physics collaborated with Theory division SINP,

Kolkata and Department of Theoretical Physics, TIFR, Mumbai.

- Dr. Pradip Mukherjee, Professor of Physics continued his collaboration with Professor Rabin Banerjee, SNBCBS, Kolkata.
- Dr. T. B. Jha, Professor of Botany collaborated with Medical Research Institute (ICMR), Belgaon, Karnataka.

3.1.6 Give details of workshops/ training programmers/ sensitization programmers conducted/ organized by the institution with focus on capacity building in terms of research and imbibing research culture among the staff and students.

The objective of all seminars/workshops/training programmes conducted by the college is to increase capacity of research and instil research outlook among faculty and students. Sensitisation programmes are organised to spread awareness on issues requiring urgent address at the social level. The reflection of the same objectives is to be found in the following programmes conducted by the college, details of which are given in the following table.

Table 3.8: Seminars/Conferences/Workshops/Special Lectures organized during last four years and the source of funding

Organizing department	Type	Theme	Speakers	Funding Agency	Year/Date
Department of Chemistry	UGC sponsored national Level seminar	Recent Trends of Research in Chemistry: Scope of Inclusion in UG and PG Courses	1. Prof. Animesh Chakraborty, IACS, Kolkata 2. Prof. Amitava Sarkar, IACS 3. Prof. Amit Basak, IIT Kharagpur 4. Prof. Debsankar Ray, IACS 5. Dr. Debabrata Maiti, IIT Bombay 6. Prof. Kamal Bhattacharyya, University of Calcutta 7. Prof. Sanjib Bagchi, IISER, Kolkata 8. Prof. Kankan Bhattacharyya, IACS, Kolkata	UGC	September 7 and 8, 2011
	Special Lecture	Acharya Prafulla Chandra Ray Memorial Lecture	1. Prof. Somnath Ghosh, Jadavpur University 2. Prof. Debsankar Ray, IACS.	College Funding	March 2010
	Special Lecture	One day Seminar on Recent trends in Chemistry	1. Prof. Chandrakanta Bandhyopadhyay, Department of Chemistry, RKMVC, Rahara 2. Prof. Tapan Kumar Paine, IACS.	College Funding	10th January 2015

Department of Physics and Chemistry	Seminar Lecture	The Amazing Story of the Higgs Boson	Professor Soumitra Sengupta, IACS, Kolkata	College Funding	October 13, 2012
Barasat Govt. College and Paschim Banga Itihas Samsad	UGC-sponsored State Level Seminar	Technologies of Revolution: Society, Economy & Polity	1. Prof. Sibaji Bandyopadhyay, Jadavpur University 2. Dr. Shobhanlal DuttaGupta, University of Calcutta 3. Dr. Sudhir Chakraborty, Institute of Development Studies, Kolkata 4. Subhash Ranjan Chakraborty, Presidency College	UGC	March 4 and 5, 2010
PG Dept. of Botany and Biological Science Division, ISI Kolkata.	UGC-Sponsored National Seminar	Emerging Trends in Plant Science	1. Prof. R.S. Upadhyay, Dept. of Botany, BHU 2. Prof. A.K.Pal, Dept. of Botany, University of Calcutta 3. Dr. Arunava Goswami, ISI, Kolkata 4. Dr. Amita Pal, Scientist, Bose Institute Dr. Prabir Ghosal, ISI, Kolkata	UGC	July 14 and 15, 2011
Zoology Department of Barasat Government College & West Bengal State University	UGC Sponsored National Seminar	Rediscovering 100 Years of Journey on the Field of Immunology: Present Status of immunological Research in India	1. Dr. Bhaskar Saha, NCCS, Pune 2. Dr. Ashok Ch. Ghosh, retired Professor, Bose institute 3. Dr. Shyamal Roy, IICB, Kolkata 4. Dr. Santu Bandyopadhyay, IICB, Kolkata 5. Dr. Subrata Majumder, Bose Institute, Kolkata 6. Dr. Mitali Chatterjee, IPGME&R, Kolkata 7. Dr. Tapas Biswas, NICED, Kolkata 8. Dr. Ashim Chakraborty, retired Professor, NBU 9. Dr. Rathindranath Baral, CNCI, Kolkata	UGC	September 19 th -20 th , 2011
Departments of Philosophy, English, History and Sanskrit in collaboration with School of Women's Studies, Jadavpur University	UGC-sponsored National-level seminar	Women and Literature: Different Faces, Different Voices	1. Dr. Ritu Sen Chaudhuri, Department of Sociology, WBSU 2. Dr. Santanu Sarkar, Department of Bengali, Assam, Shilchar 3. Dr. Bijaya Goswami, Department of Sanskrit, Jadavpur University 4. Sri Abhijit Roy, Department of Film Studies, Jadavpur University 5. Dr. Miratun Nahar, retired Professor, Department	UGC	16 th and 17 th January 2012

			Philosophy, Victoria College 6. Dr. Malavika Karlekar, Editor, Indian Journal of Gender Studies 7. Smt. Aparna Banerjee, Department of History, Lady Brabourne College 8. Dr. Aparna Roy, Department of Bengali, Visva-Bharati University		
Department of English in Collaboration with Bidhan Nagar Govt. College	UGC sponsored National level seminar	Literature in Translation	1. Prof. Sanjukta Dasgupta, Department of English, CU 2. Prof. Supriya Chowdhury, Department of English, JU 3. Sri Samik Bandyopadhyay, renowned film critic and translator	UGC	August 2013
Department of History	Extension lecture	French Revolutions	Prof. Subash Ranjan Chakrabarty, Formerly Associate Professor, Presidency University	College Funding	January 09, 2015
PG Department of Physics	Special Seminar	Recent Trends in Physics	Prof. Rabin Banerjee (S N Bose National Centre for Basic Sciences) Prof. Sibaji Raha (Director, Bose Institute, Kolkata) Prof. G. P. Das (Indian Association for the Cultivation of Science)	UGC	August 31, 2013
	Special Seminar	Physics Teaching Methodology	Dr. Birendranath Das (Presidency University), Dr. Bhupati Chakraborty (City College, Kolkata) Dr. Surajit Chakraborty (Maharaja Manindra Chandra College, Kolkata) Dr. Syed Minhaz Hossain (IEST, Shibpur)	College Funding	January 21, 2012
	Special Seminar	Why do we require optics in computing?	Dr. Tanay Chakraborty (WBPDC, Kolaghat)	College Funding	October 03, 2012
Department of Physics	Seminar lecture	Indian Initiative in Neutrino Research	Dr. Kolahal Bhattacharya (TIFR)	College Funding	January 16, 2013
	Seminar lecture	'Effect of projectile breakup on fission fragment mass distribution in $^{6,7}\text{Li} + ^{238}\text{U}$ reactions'	Mr. Dipayan Chattopadhyay (BARC)	College Funding	August 02, 2014

Department of Sanskrit	Special Lecture	Karmavada	Dr. Kakoli Ghosh, Jadavpur University	College Funding	August 2014
	Special Talk	Theories of Kavya	Dr. Monidipa Das, Rabindra Bharati University	College Funding	December 18, 2014
Department of Philosophy	Special Lecture	Sankhya Philosophy	Dr. Tapan Kumar Chakraborty, Prof. of Philosophy	College Funding	28.02.2014
Department of Philosophy and Sanskrit	Special Lecture	Vivekananda: His Thoughts	Dr. Aparna Banerjee, Prof. of Philosophy, Calcutta University Dr. Kakoli Ghosh, Jadavpur University	College Funding	7 th March 2014
Department of Philosophy	Special Lecture	Nyaya Philosophy	Dr. Tapan Kumar Chakraborty, Prof. of Philosophy	College Funding	December 01, 2014
Department of Bengali	Special Lecture	Meghdut	Dr. Nrishingha Prasad Bhaduri	College Funding	November 12, 2014
	Special Lecture	Meghdut Path Sanchalana	Aharnish Patrika Gosthi	College Funding	November 12, 2014
	Special Lecture	Novel er Romance: Romance er Novel	Dr. Biswajit Roy	College Funding	November 13, 2014
	Special Lecture	Raktokarobi and Rabindra drama-song	Dr. Rajasree Bhattacharyya	College Funding	March 18, 2014
	Special Lecture	Drama	Dr. Pabitra Sarkar	College Funding	2014
Barasat Govt. College	Seminar cum mass awareness programme	Rain Water Harvesting	Mr. Soumya Mondal, Chemist, SWID	SWID, Govt., of WB	February 10, 2015

3.1.7 Provide details of prioritized research areas and the expertise available with the institution.

The faculty members of the College are actively involved in various aspects of research, namely, pre-doctoral research guidance, supervising student projects, dissertations, field studies, excursions and study tours besides pursuing their own research projects. The prioritized research areas of some of the faculty members involved in research are given below which reflects their expertise in different fields.

Table 3.9: Prioritized Research Areas of Present Faculty

Department	Name of the Faculty Member	Prioritized research area
Bengali	Prof. Dilip Kumar Naha	Drama, Linguistics
	Dr. Manju Mandal	Tagore Literature
	Sri Sandip Kr. Patra	Novel and Short Stories
	Dr. Rita Ghosh	Folk Culture and Literature
	Sri Manas Kundu	Literary theory and Comparative Literature
	Sri Md. Abdur Rafik Sardar	Comparative Literature
	Smt. Piali Khan	Medieval Literature
Botany	Prof. Timir Baran Jha	Cytogenetics and Plant Biotechnology
	Prof. Jukta Adhikary	Enzymology
	Dr. Kunal Sen	Plant Physiology
	Dr. Nirmalendu Das	Mushroom Biotechnology, and Environmental Microbiology
	Sri Benudhar Mandal	Environmental Microbiology
	Dr. Naryan Chandra Karmakar	Environmental Ecology
	Dr. Saikat Naskar	Angiosperms Taxonomy, Mangrove Ecology
	Dr. Subhra Talai Mukhopadhyay	Phycology, Bryology, Pharmacognosy
	Dr. Paramita Nandy (Dutta)	Stress Physiology, Cytogenetics
	Sri Dibyendu Mahanty	Plant Physiology, Biochemistry
Chemistry	Dr. Arup Bandyopadhyay	Surface Chemistry
	Dr. Sanat Kr. Saha	Protein Chemistry
	Dr. Prabir Kr. Sen	Synthetic Organic Chemistry
	Dr. Dipanwita Majumdar	Material Science/Nano Science
	Dr. Nabakumar Bera	Quantum Mechanics, Statistical Mechanics, Quantum and Statistical Dynamics
	Dr. Sanjukta Muhuri	Synthetic Organic Chemistry
	Dr. Soma Nath (Deoghorla)	Co-ordination Chemistry
English	Dr. Basabi Roychowdhury	Victorian Novels; Emphasis on Charles Dickens's Novels
	Smt. Swaty Mitra	Post Fifties English Novel with special emphasis on Doris Lessing's Novels
	Sri Ambarish Sen	Indian English writings; Special Emphasis on Novels of Amitava Ghosh
Economics	Sri Saroj Kumar Panja	Agricultural Economics
	Dr. Sudheshna Chattopadhyay	Trade industry and Environment
	Dr. Rajnarayan Gupta	Macroeconomics Financial economics
	Mr. Tusar Kanti Samanta	Demographic transition and economic development
Geography	Sri Sujit Kumar Bhattacharyya	Economic Development and Resource studies
	Dr. Ruksanara Begum	Human Geography
	Dr. Sourama Saha	Regional Planning and development
	Dr. Chandan Surabhi Das	Environmental Geography and Bio-Geography
	Smt. Shrabana Mazumder	Urban Development and Planning
	Sri Aznarul Islam	Applied Geomorphology

History	Sri Prabal Bagchi	Economic History of Modern India
	Sri Rajkumar Chakrabarti	Political and social History of Modern India, Historiography
Mathematics	Dr. Nisith Chandra Das	Maximum Entropy Principle: Characterization and application
	Dr. Prasanta Paul	Ordering and ageing Properties of Reliability Theory and Information Theory
	Dr. Indranath Bhattacharyya	Theoretical Physics, Cosmology and Astroparticle Physics
	Sri Jayanta Biswas	Abstract Algebra: Binary Relation, Semi group, Group; Linear algebra: Matrix algebra; Number Theory: Collatz Conjecture
	Dr. Shobhan Mandal	Abstract algebra: Ring, Semi ring and Semi group Theory
Philosophy	Dr. Arpita Neogi Sengupta	Logic
	Dr. Madhumita Chatterjee	Environment ethics and Animal Rights
	Sri Mrinal kanti Sarkar	Practical Ethics
	Smt. Debasree Dutta	Western Epistemology
Political Science	Sri Ranjan Kumar Ray	Ancient and Medieval Public Administration in India
	Sri Kinshuk Nandi	Sustainability and federal Governance
	Smt. Sreemoyee Ghosh	Development and Gender Studies.
Physics	Dr. Pradip Mukherjee	Theoretical High Energy Physics, Gravitation and Cosmology
	Dr. Shilbhadra Chatterjee	Theoretical Nuclear Physics
	Dr. Sankar Mondal	Condensed Matter Physics
	Dr. Ajita Sengupta	Solid State Physics
	Dr. Dhananjoy Roy	Condensed Matter Physics
	Dr. Srijit Bhattacharya	Experimental Physics
	Dr. Somnath Bhattacharyya	Statistical physics
	Smt. Mina Majumder	Quantum Field Theory, Electronics
	Dr. Sutapa Ghosh	Astrophysics
	Dr. Jyotirmoy Maiti	Theoretical High Energy physics
	Sri Amit Singha Roy	Cosmology
	Sri Sudip Mukherjee	Statistical Physics
Sanskrit	Sri Tamonash Chakraborty	Indian Philosophy
	Smt. Poulomi Saha	Indian Philosophy and Indian poetics
Zoology	Dr. Madhumita Manna	Vaccine development for Kala-azar, genome sequencing of clinical isolates of KA, Phyto and Chemotherapy
	Dr. Debojyoti Chakraborti	Fisheries
	Dr. Tuhin Kumar Saha	Animal Physiology, Biochemistry
	Dr. Sanjoy Poddar	Hematology, Immunology
	Dr. Tanaya De	Endocrinology and Reproductive Biology, Cell Biology
	Dr. Debjani Sarkar	Hematology
	Dr. Srikanta Guria	Cell Biology, Endocrinology, Immunology
	Sri Somaditya Dey	Parasitology, Immunology

3.1.8. Enumerate the efforts of the institution in attracting researchers of eminence to visit the campus and interact with teachers and students?

Almost all the Departments of this Institution frequently organize Seminars and Symposiums where a good number of eminent faculty members and researchers from different institutions of repute have visited as Resource Persons and Invited Speakers. Details are given in the following table.

Table 3.10: List of eminent Scientists/Academicians/Visitors

Department	Eminent Academicians/ Scientists/Visitors	Affiliation	Purpose of visit	Year
Bengali	Dr. Pabitra Sarkar	Jadavpur University	Guest Faculty, PG 1st & 3rd Semester	2014-2015
	Abdul Kafi	Jadavpur University	Guest Faculty, Paper Setter, Examiner, Moderator	2014-2015
	Soharab Hossain	City College	Guest Faculty	2014
	Arun Kumar Ghosh	Burdwan University	Guest Faculty	2014-2015
	Manabendra Mukhapadhyay	Viswa Bharati University	Guest Faculty	2014-2015
	Sabyasachi Deb	Presidency University	Guest Faculty	2014-2015
Zoology	Dr. Deboprasad Chakrabarty	Retired faculty, Presidency College	Special lecture	2014-15
	Dr. Madhusudan Ghosal	Retired faculty, Surendranath College, Kolkata	Special lecture	2014-15
	Dr. S. K. Gupta	Retired Scientist, Zoological Survey of India	Special lecture	2014-15
	Dr. Rupendu Roy	Retired faculty, Barasat Govt. College	Special lecture	2014-15
	Dr. Swadesh Dattagupta	Retired Scientist, Indian Institute of Chemical Biology.	Special lecture	2014-15
Chemistry	Prof. Debsankar Ray	IACS, Kolkata	Special Lecture	2010-2011
	Prof. Animesh Chakraborti	IACS, Kolkata	Speaker in National Seminar	2011
	Prof. Sanjib Bagchi	IISER, Kolkata	„	2011
	Prof. Amit Basak	IIT Kharagpur	„	2011
	Prof. Amitava Sarkar	IACS, Kolkata	„	2011
	Prof. Kamal Bhattacharyya	Calcutta University	„	2011
	Prof. Chandrakanta Bandyopadhyay	RKMVC, Rahara	„	2015

	Dr. Tapan Kanti Paine	IACS, Kolkata	„	2015
Physics	Prof. Sibaji Raha	Director, Bose Institute	Special lecture	2014
	Prof. G. P. Das	IACS, Kolkata	Special lecture	2014
	Prof. Rabin Banerjee	S, N, Bose Center for Basic Sciences	Special lecture	2014
	Prof. Soumitra Sengupta	IACS, Kolkata	Special Lecture	2013
Political science	Hon'ble Justice Chittatosh Mookerjee	-	Key note Address in an awareness programme on Human Rights	2014
	Dr. Indrashis Banerjee, Associate Professor of Political Science	Ramakrishna Mission Vidyamandira	Seminar Lecture on Human Rights	2014

3.1.9 What percentage of the faculty has utilized Sabbatical Leave for research activities? How has the provision contributed to improve the quality of research and imbibe research culture on the campus?

Sabbatical leave is yet to be adopted by Higher Education Department, Government of West Bengal. However, the faculty members make optimal use of Summer and Puja vacations, Winter recess, holidays and preparatory days for pursuing their research. Additionally, the faculty member can avail the UGC *Faculty Improvement Programme* (FIP) for two years or the Government Sanctioned Study Leave (12 months at any one time and 24 months during service period). The Principal co-operates in facilitating these leave with promptness.

3.1.10 Provide details of the initiatives taken up by the institution in creating awareness/advocating/transfer of relative findings of research of the institution and elsewhere to students and community (lab to land)

Dr. Madhumita Manna, faculty of Department of Zoology has been doing extensive research work on 'Kala-azar' and she frequently participates in various awareness programme on this issue. Significantly, in the year 2013 and 2014 she had participated in 'Kala-azar Detection Camp' in collaboration with Calcutta National Medical College.

3.2 Resource Mobilization for Research

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

As such the college does not have any separate provision for funding research work. However, many faculty members have their own research projects funded by different agencies like UGC, DST, and CSIR etc. The college can only provide infrastructural facility to the researchers. A fraction of the Plan expenditure of the State Govt. and Development Grant of UGC are utilized for purchasing sophisticated equipment which are used for research and development purpose in addition to the requirement of the curriculum. The teachers are encouraged to make best use of infrastructural facilities of the college such as library, instruments, laboratory, computer, internet to carry out their research work. The impact of this encouragement can readily be seen from the sheer volume of research projects being carried out by our teachers. Detailed budgetary report is furnished in Criterion VI, *Section 6.4.3 and 6.4.4.*

3.2.2 Is there a provision in the institution to provide seed money to the faculty for research? If so, specify the amount disbursed and the percentage of the faculty that has availed the facility in the last four years?

The Institution is a Government College without financial autonomy and bound by the West Bengal Financial Rules in all pertaining matters. Under prevailing circumstance there is no provision for providing seed money to the researchers.

3.2.3 What are the financial provisions made available to support student research projects by students?

As the college has no financial autonomy, it is difficult to provide financial help to support research projects by students. However, the institution provides all forms of infrastructural support for researchers, including library facilities, computer laboratories with internet connections and well equipped laboratories to support the students for their research projects.

3.2.4 How does the various departments/units/staff of the institute interact in undertaking inter-disciplinary research? Cite examples of successful endeavors and challenges faced in organizing interdisciplinary research.

One of the primary objectives of the institution is to develop an atmosphere of inter-disciplinary exchanges. For which the following steps have been initiated:

- Regular interaction among different departments on inter-disciplinary subjects.
- Offering inter-disciplinary topics for PG projects and dissertations.
- The curricula of PG departments are designed maintaining inter-disciplinary focus.
- Inter-disciplinary teaching and supervising of inter-disciplinary PG dissertations, e.g. student projects of Physics departments are frequently guided by the faculty members of Chemistry department.
- On-going collaborative research work on Gravitation and Cosmology by Mathematics and Physics faculties.
- Organizing collaborative Seminar/workshops on inter-disciplinary themes, e.g. the Seminar on *Women and Literature* (details in Table 3.8).

3.2.5 How does the institution ensure optimal use of various equipment and research facilities of the institution by its staff and students?

The College has a Central Instrumentation Facility for the Science departments for research and project works of the students.

- Latest instruments are regularly purchased, and are made available to the students under the supervision of the faculty.
- The students are divided into small groups for effective learning of technical skills as required for operating various sophisticated equipment.
- Computer and Internet facilities are made available to the students for their project/research work.

3.2.6 Has the institution received any special grants or finances from the industry or other beneficiary agency for developing research facility? If yes' give details.

The Institution has received many special grant or finances from beneficiary agencies like UGC, DST-FIST etc. for developing research facility. Details are given in section 6.4.4 and 6.4.3.

Moreover, the faculties are also constantly working towards acquiring such financial support and recognition from the related institutes/industries.

3.2.7 Enumerate the support provided to the faculty in securing research funds from various funding agencies, industry and other organizations. Provide details of ongoing and completed projects and grants received during the last four years.

The Research Committee of the College extends full support to the faculty in getting grants from funding agencies for pursuing their individual research projects right from the submission stage till the completion of the project as discussed in detail in Section 3.3.2. The details of ongoing and completed projects and grants received during the last four years have been given in Table 3.6.

3.3 Research Facilities

3.3.1 What are the research facilities available to the students and research scholars within the campus?

- Research laboratories equipped with sophisticated instruments in the departments of Geography, Physics, Chemistry, Botany and Zoology.
- Separate Computer Room with Internet facility in Geography, Physics, Chemistry, Mathematics, Botany and Zoology is available.
- The campus is fully Wi-Fi enabled.
- The Dept. of Geography has an RS-GIS laboratory (with nine desktops for students' use).
- Specific software tools for research like Remote Sensing - GIS software 21st Century, QGIS (presently installed in the Dept. of Geography) for image analysis and GIS mapping.
- A separate Central Library housing more than Eighty thousand books and fifty journals.
- Access to online research journals through INFLIBNET has been made available in the library.
- Separate Seminar Libraries in all Departments.
- Access to off-campus library facilities like British Council Library through institutional

membership. The faculty members may also avail the libraries of ISI, SINP, and IACS etc. with the recommendation by the Principal.

- Photocopy facility within the campus.

3.3.2 What are the institutional strategies for planning, upgrading and creating infrastructural facilities to meet the needs of researchers especially in the new and emerging areas of research?

The main strategy of the College is to maintain separate academic and administrative sub-committees like “UGC Committee”, “Research Committee”, “Library Development Committee”, “Seminar Committee” and “Academic Journal Committee” to cater the separate needs of the researchers.

The sub-committees work individually and also cooperatively to chalk out plans for upgrading and creating infrastructural facilities in the new and emerging areas of research.

- The UGC sub-committee monitors the Funds sanctioned by UGC for the College, also the Minor and Major research projects by individual faculty members.
- The Research sub-committees encourage the faculty members to undertake research projects and, in consultation with the Heads of the Departments/Faculty, try to identify both existing and new infrastructure requirements of the researchers.
- The Library sub-committee subscribes new books, journals and e-journals keeping in mind the demands of both UG and PG departments.
- The scholars get access to online journals through INFLIBNET.
- The remaining sub-committees provide additional support necessary to meet the needs of the researchers.

In addition, the College encourages the undertaking of inter-disciplinary research projects by the faculty members of various departments. For example, some PG projects of Physics Department are supervised by the faculty members of Chemistry Department. The college also encourages faculty members to participate in Faculty Development Programmes like Orientation Programme, Refresher Course, Seminar, Workshops, Symposium, Conference, etc. to stay up-to-date with the new and emerging areas of research.

3.3.3 Has the institution received any special grants or finances from the industry or other beneficiary agency for developing research facilities? If ‘yes’, what are the instruments/facilities created during the last four years.

The College has received several special grants from UGC, DST-FIST and State Government for developing research facilities. The major instruments and facilities created during last four years are given below.

Table 3.11: List of Major Instruments purchased during last four years

Department	Year	Name of the Instrument/Facility	Amount	Funding agency
Botany	2011-12	Gel Doc EZ-BIO-RASD	Rs. 5,48,773/-	Govt. Grant
		UV-Vis Spectrophotometer (Shimadzu)	Rs. 4,05,000/-	
	2012-2013	Carl Zeiss Microscope	Rs. 5,42,709/-	Govt. Grant
		All Quartz Double Distillation Unit with Power Supply- BOROSIL	Rs. 2,61,290/-	
	2013-2014	Carl Zeiss Microscope	Rs. 5,70,447/-	DST-FIST
		Laminar Airflow	Rs. 1,18,000/-	
		Rotary Microtome	Rs. 2,19,581/-	
		Gel DOC- BIORAD	Rs. 2,22,000/-	
		Air Sampler	Rs. 90,789/-	
		Gel Electrophoresis Trans Blot	Rs. 71,850/-	
Geography	2012-2013	21st Century Licence user-3	Rs. 37,440/-	Govt. Grant
	2013-2014	Satellite Imagery	Rs. 30,000/-	Govt. Grant
Zoology	2011-2012	1. Trinocular Research microscope	1.Rs. 299480/-	UGC
	2012-2013	1. Microscope	1.Rs. 1,70,250/-	1.UGC
		2. Rotary vacuum Evaporator	2. Rs. 2,92,926/-	2.Spl. Govt. Grant
		3. CO ₂ Incubator	3. Rs. 2,75,000/-	3. Spl. Govt. Grant
		4.Metler balance	4. Rs. 96917/-	4. UGC
	2013-2014	1.Cold Centrifuge (Eppendorf)	1. Rs. 6,69,495/-	1.DBT (Dr. M. Manna's Research project)
		2.Liquid nitrogen Can	2. Rs. 1,47,705/-	2. DBT (Dr. M. Manna's Research project)
		3. Online UPS (Microteknik)	3. Rs. 3,15,000/-	3.DST -FIST
		4.Laminar Flow	4. Rs. 2,33,000/-	4.UGC
		5.Sub Cell GT system with power pack (BioRad)+Gel tray	5. Rs. 1,04,870/-	5.DBT (Dr. M. Manna's Research project)
		6. Digital balance	6. Rs. 84730/-	6. DBT (Do)
	2014-2015	1. Trinocular Microscope	1. Euro 7,000 (approx. Rs. 4,90,000/-)	1.UGC

Chemistry	2012-2013	Borosil all Quartz distillation apparatus	Rs. 1,50,547/-	State Govt. Grant
	2013-2014	1. Mettler Semimicro balance (5 digits) 2. Shimadzu UV-Visible spectrophotometer	Rs.1,70,100/- Rs. 6,86,175/-	DST-FIST
	2014-2015	Ultra Sonicator	Rs. 3,02,486/-	UGC
Physics	2012-2013	FTIR	Rs. 8,00,000/-	UGC
	2013-14	STM	Rs. 6,00,000/-	DST-FIST
		UV-VIS Spectrophotometer	Rs. 6,00,000/-	DST-FIST

3.3.4 What are the research facilities made available to the students and research scholars outside the campus/other research laboratories?

- The College ensures that UG & PG Departments of Zoology, Botany and Geography can go for excursions and field studies, which are mandatory for the respective programmes.
- The college facilitates for the students of the Department of Chemistry to go an educational tour of the Laboratories of the Indian Association for the Cultivation of Science, Kolkata which incites their research interests.

3.3.5 Provide details on the library/information resource center or any other facilities available specifically for the researchers?

- The Central Library of the College houses 80,541 books and subscribes to 50 journals across all subjects which the researchers can access.
- Access to online research journals through INFLIBNET-NLIST is available.
- It contains reading room for the researchers.
- It provides off-campus library facility of British Council Library through institutional membership.
- There are 3 desktop computers connected through LAN and 2 printers in the Library.
- Through LIBSYS software, computerization of catalogues and printing of computer generated catalogues is being done.
- It provides OPAC facility by which the user can know the status of a particular document/book/journal.
- Fumigation chambers are already installed for preservation of old and rare books.
- In addition to these, resources of Seminar Libraries in each Department are also made available to the researchers.

3.3.6 What are the collaborative research facilities developed/created by the research institutes in the college. For ex. Laboratories, library, instruments, computers, new technology etc.

Although the college does not have such facilities at present, however different departments in the college are constantly negotiating with other institutions like ISI, SINP, IACS etc. to develop such facilities in the college campus.

3.4 Research Publications and Awards

3.4.1 Highlight the major research achievements of the staff and students in terms of

- *Patents obtained and filed (process and product):* Nil
- *Original research contributing to product improvement:* Nil
- *Research studies or surveys benefiting the community or improving the services*

Table 3.12: Some Important Community Surveys done by the College in last four years

Department	Research study/survey	Benefit of the community/improving services
Dr. Madhumita Manna, Department of Zoology	To organize Kala-azar detection camps in different endemic regions of Kala-azar in WB and adjoining states for molecular epidemiological works on Kala-azar in collaboration with Calcutta National Medical College in 2013 and 2014	The rural poor people got the chance of medical checkup by medical officers in one hand and detection of the dreaded disease on the other. The molecular epidemiological research work starting from field to high throughput genome characterization of the clinical isolates will help to divulge the problem of drug resistance and eradication of the disease in future.

➤ ***Research inputs contributing to new initiatives and social development***

Arindam Bhattacharyya, assistant professor in Economics have done his doctoral research work on "Primary Education In Kolkata Slums-An Enquiry on Stakeholders Behavior" and was actively engaged in a project to prepare "District Human Development Report of North 24 Parganas", under the guidance of Prof. Ratan Khasnabis of Department of Business Management, University of Calcutta, funded by the Government of West Bengal.

3.4.2 Does the Institute publish or partner in publication of research journal(s)? If ‘yes’, indicate the composition of the editorial board, publication policies and whether such publication is listed in any international database?

The College has an Academic Journal, the details of which are given in the Table below.

Table 3.13: Details of Academic Journal ‘Aureole’

Name of the Journal	Editorial Board	Publication policies	Whether listed in any international database
AUREOLE - AN ACADEMIC JOURNAL (ISSN 0976-9625)	Chief Editor- Dr. Subhasis Dutta Executive Editors- Dr. Basabi Roy Chowdhury Smt. Arpita Neogi Sengupta Dr. Debojyoti Chakraborty Assistant Editors- Dr. Prabir Kumar Sen Mr. Rajkumar Chakrabarti Associate Editors- Dr. Madhumita Manna, Dr. Sanjoy Poddar, Dr. Paramita Nandy, Dr. Sanat Kumar Saha, Dr. Sanjukta Muhuri, Mr. Jayanta Biswas, Mrs. Ruksanara Begum, Mr. Jyotirmoy Maity, Ms. Sreemoyee Ghosh, Mr. Kinshuk Nandi	The Academic Journal of Barasat Govt. College publishes two volumes in each year. One volume includes the articles related to Science and another volume is for important articles on Social Sciences and Humanities. All the articles are doubly reviewed by two independent referees. The secrecy policy of the reviewers is strictly maintained.	No

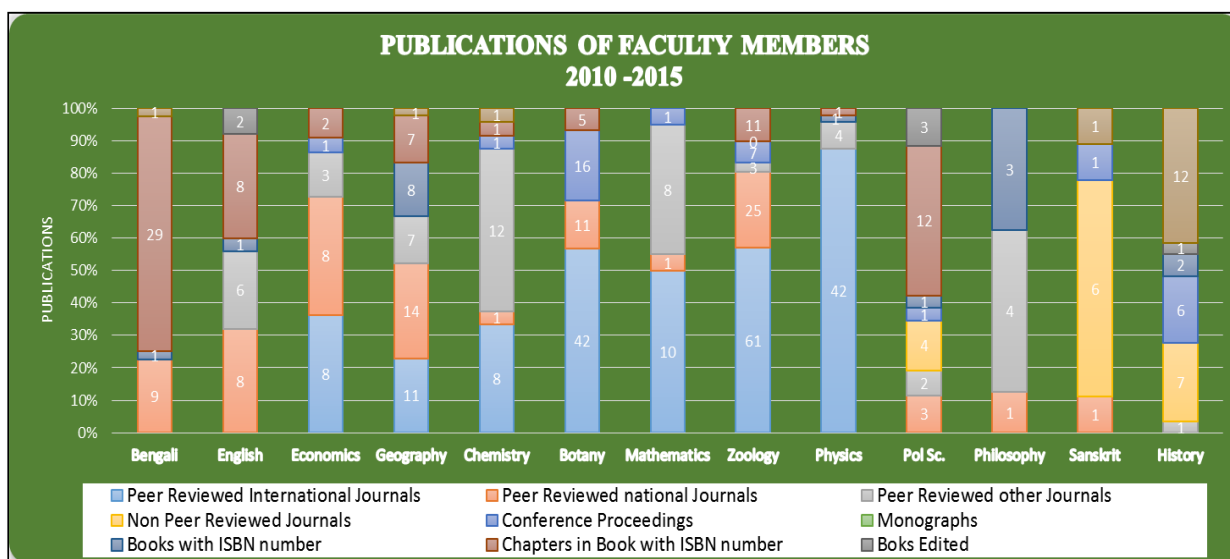
3.4.3 Give details of publications by the faculty and students:

During the period from 2010-2015, the total number of publications by faculty members (serving this College) and students comprising papers published in peer and non-peer reviewed journals, monographs, chapter in books and books with or without ISSN/ISBN No. is 470. Within this period a large section of the faculty has been transferred out to other colleges, as well as, many teachers have been transferred into or been freshly posted to this college. The list of publications of faculty members during 2010-2015 (including all transferred faculty members) has been summarized in the following Table.

Table 3.14: Publications by the Faculty Members for the period 2010-2015

Department	Peer reviewed journals			Non peer reviewed journals/others	National/International Conference proceedings	Monographs	Books with ISSN/ISBN No.	Chapters in Book with ISSN/ISBN No.	Books Edited	Book/Chapter without ISSN/ISBN No.
	No. of Publications in international level Journals	No. of Publications in National level Journals	Others							
Bengali	-	9	-	-	-	-	1	20	-	-
English	-	8	6	-	-	-	1	8	2	-
Economics	8	8	3	-	1	-	-	2	-	-
Geography	11	14	7	-	-	-	8	7	-	1
Chemistry	8	1	12	-	1	-	-	1	-	1
Botany	42	11	-	-	16	-	-	5	-	-
Mathematics	10	1	8	-	1	-	-	-	-	-
Zoology	61	25	3	-	7	-	-	11	-	-
Physics	42	-	4	-	-	-	1	1	-	-
Political Science	-	3	2	4	1	-	1	12	3	-
Philosophy	-	1	4	-	-	-	3	-	-	-
Sanskrit	-	1	-	6	1	-	-	-	-	1
History	-	-	1	7	6	-	2	-	1	12

N.B.: Citation Index, SNIP, SJR, Impact factor, H-index belong to individual faculty members. Therefore these are included in the Departmental Profiles.

Figure 3.1: Publications of faculty members at a glance

3.4.4 Provide details (if any) of

- *Research awards received by the faculty*
- *Recognition received by the faculty from reputed professional bodies and agencies, nationally and internationally*
- *Incentives given to faculty for receiving state, national and international recognitions for research contributions.*

Table 3.15: Research Awards and Recognitions (2010-2015)

Name of Faculty	Department	Research Award received / Recognition received from reputed professional bodies and agencies, nationally and internationally
Sourama Saha	Geography	PhD degree from University of Calcutta, 2010
Ruksanara Begum	Geography	PhD degree from University of Calcutta, 2011
Aznarul Islam	Geography	M.Phil. Degree from University of Burdwan, 2013
Shobhan Mandal	Mathematics	PhD degree from University of Calcutta, 2014
Nabakumar Bera	Chemistry	PhD degree awarded from Jadavpur University, 2011
Dipanwita Majumdar	Chemistry	PhD degree awarded from Jadavpur University, 2011
Debjani Sarkar	Zoology	PhD degree awarded from University of Calcutta, 2011
Srikanta Guria	Zoology	PhD degree awarded from University of Calcutta, 2014
		Award for outstanding paper presentation at National Symposium on "Man, Animal And Environment Interaction in the Perspective of Modern Research" organized by, Department of Zoology, University of North Bengal dt. March 08-09, 2013
		Young scientist award on a National Seminar organised by 24th All India Congress of Zoology and National Helminthological Congress at University of Kalyani on the basis of paper presentation dt. 24 Nov, 2013.
Madhumita Chatterjee	Philosophy	PhD degree awarded from Viswa Bharati University, 2012
Debjani Ray Moulik	English	PhD degree awarded from University of Calcutta, 2014
Arindam Bhattacharya	Economics	PhD degree awarded from University of Calcutta, 2013
Prof. Pradip Mukherjee	Physics	Awarded Visiting Associateship of IUCAA, Pune.
Shubhra Talai Mukhopadhyay	Botany	PhD degree awarded from University of Calcutta, 2012
Narayan Chandra Karmakar	Botany	PhD degree awarded from University of Calcutta, 2013
Saikat Naskar	Botany	PhD degree awarded from University of Calcutta, 2014
Ambarish Sen	English	State award for performance and achievement as disable person in the field of academics, Dec, 2011
Gouri Sankar Nag (Transferred faculty)	Political Science	PhD degree awarded from University of Calcutta, 2013
Arun Kumar Roy	Librarian	PhD degree awarded from University of Kalyani, 2012

3.5 Consultancy

3.5.1 Give details of the systems and strategies for establishing institute-industry interface?

Different departments of the College plan industry visits and educational tours from time to time. Such visits are very much in the curriculum of the PG Departments; additionally, some of the UG Departments have also conducted study tours so that the students get exposure to relevant industries or laboratories. A few examples are given below.

Table 3.16: Industry-Institute Interactions

Name of the industry interacted	Purpose of visit	Year of visit
Waste Water Plant, Titagarh	Visited by the PG students of Department of Zoology to bring awareness among students	2014
IFB Agro Industries Ltd.	Interaction with the PG students of Department of Zoology for searching career opportunities in Fisheries	2013
Pidilite	Students of the college got professional training in fabric related work	2014

Department	Institute Visited	Year of Visit
Chemistry	Indian Association for the Cultivation of Science, Jadavpur	2015
Zoology	Indian Institute of Chemical Biology (IICB), Kolkata	2013
	Institute of Post Graduate Medical Education and Research (IPGMER), Kolkata	2014
	West Bengal State University	2015
	CICFRI Barrackpur and CIFA, Khardah	2014
Botany	Botanical Survey of India, Kolkata	2010-2014
	Indian Statistical Institute (ISI), Kolkata	
	Presidency University	

3.5.2 What is the stated policy of the institution to promote consultancy? How is the available expertise advocated and publicized?

All the faculty members of the Institution are free to provide consultancy services on an honorary basis since they belong to West Bengal Education and Senior Education Service (WBES, WBSES). No extra effort is made by the college to advocate and publicize their expertise. However, their expertise is known through various sources like College website, conferences and peer-references. Various organizations /institutes avail of their services frequently on honorary basis.

3.5.3 How does the institution encourage the staff to utilize their expertise and available facilities for consultancy services?

The IQAC and Research committees of the institution always encourage the faculty members to extend consultancy service. They are provided with On-Duty Leave, if required, for offering their service. There is no scope for obtaining financial revenue for the institute as it is a Government Institute under the Department of Higher Education, Govt. of West Bengal. However, keeping the social commitment in mind, the institute always promotes different consultancy services by the teachers free of cost to different agencies when approached.

3.5.4 List the broad areas and major consultancy services provided by the institution and there venue generated during the last four years.

The broad areas and major consultancy services provided by the Institution during 2010-2015 are as follows:

Table 3.17: Broad Areas and Major Consultancies of the College.

Area of Consultancy	Faculty/Department providing service	Year
Expertise consultancy services for nature protection, e.g. the DFO of the North 24 Parganas and a local NGO sought for expert view to preserve old road side rain trees in the district.	Department of Botany, Professors led by HOD, Dr. P. Roy	2013-2014
Consultant in a ‘Kala-azar Detection Camp’ organised by Calcutta National Medical College, Kolkata	Dr. Madhumita Manna	2013 & 2014
Member of Technical and Research Committee, Biotechnology Department, Govt. of West Bengal	Dr. Jukta Adhikari	Since 2015
Member of “International Mass Awareness Programme” (NGO- sponsored by DBT, WB)		Since 2014
Member of Clinical Research Ethics Committee, Calcutta School of Tropical Medicine, Kolkata.		Since 2013
Reviewer of International Journals: <ul style="list-style-type: none"> Acta Physiologiae Plantarum – Springer - Berlin Heidelberg; International Journal of Remote Sensing 	Dr. Jukta Adhikari	

<ul style="list-style-type: none"> – Taylor & Francis, UK; • International Journal of Plant Physiology & Biochemistry – South Africa; • Journal of Medicinal Plants Research – South Africa • Journal of Pediatric Endocrinology & Metabolism (USA) 		--
Reviewer of the Research Proposal: Science and Engineering Research Board (SERB)	Dr. Madhumita Manna	2015
Reviewer of International Journals: Journal of Parasitic Diseases (Springer) Immunologic Research (Springer) Proceedings of Zoological Society (Springer) International Journal of Biological macromolecule (Elsevier) Journal of Proteomics and Bioinformatics (OMICS) Parasites and Vectors (Biomed central)	Dr. Madhumita Manna	Since 2011
Reviewer of an international Journal of Springer entitled "Human Ecology" and Acted as a member of the editorial board of "Monan"	Dr. Chandan Surabhi Das	Since 2013
Reviewer of an international Journal of Springer entitled "Modelling Earth System Science and Environment"	Aznarul Islam	Since 2015
District Level Jury Member in Science Awareness Competition by Youth Welfare Department	Dr. Chandan Surabhi Das	2014
Expert for interviewing qualified Candidates in the written Examination of TET, 2012	Dr. Ruksanara Begum	2013
Jury Member in a competition, titled “Yuba Samsad o Quiz Pratijogita” in Barasat Municipal Area, Conducted by Barasat Municipality, North 24 Parganas.	Jayanta Biswas	17.12.2012
Judge in a district level competition in North 24 Parganas district, titled “District Students Science Seminar – 2013”. The topic was “Water Cooperation”, held at Barasat Rabindra Bhavan, Conducted by Dept. of Youth Services.	Jayanta Biswas	29.08.2013
Joint Convenor in “West Bengal State Students-Youth Science Fair - 2013”, on behalf of North 24 Parganas District, Conducted by Dept. of Youth Services.	Jayanta Biswas	2013

Jury Member for selection of Science Model under Inspire Award Programme, held at Barasat Mahatma Gandhi Memorial High School, Conducted by Govt. Of West Bengal through Office of the District Inspector of Schools (SE), North 24 Parganas. This programme had been introduced by the Department of Science and Technology, Govt. Of India.	Jayanta Biswas	15.09.2014
Exam Coordinator/Officer -in-Charge/venue -in-charge of various Public Examinations like SET, SSC, WBPSC, West Bengal Police Department, Railway recruitment cell, WBCSC etc. at Barasat Government college centre.	Jayanta Biswas	2012, 2013, 2014
Officer-in-Charge of WBBSE of Barasat Centre (Madhyamik Pariksha)	Jayanta Biswas	2014 and 2015
Officer-in-Charge of WBBSE of Barasat Centre (Madhyamik Pariksha)	Mrinal Kanti Sarkar	2011, 2012, 2013
Venue-in-Charge of written examination for the recruitment of Constable/ Lady Constable at Barasat Govt. College Centre	Dr. Prabir Kr. Sen	2012
Supervisor of SET examination at Barasat Govt. College	Dr. Prabir Kr. Sen	2013
Moderator and External examiner of Government college of Engineering and Ceramic Technology	Swaty Mitra	2012-2015
Observer of Higher Secondary Examination	Md. Abdur Rafik Sardar	2012
Venue-in-Charge of Railway recruitment Board Examination at Barasat Government College centre	Md. Abdur Rafik Sardar	2015
Consultant for NET and SET at Asutosh College training Centre	Tamonash Chakraborty	2011, 2012, 2013
VC Nominee as Subject Expert for Dakshineswar (Adyapith) B.Ed College and Jogen Mondal College of 24 Parganas (N)	Dr. Gouri Sankar Nag	2013
Jury member in District level Youth Parliament in 24 Parganas (N)		2010
Member of Editorial Board of the journal titled "Review Subcontinent"		--

Being a Government College, our teachers have not generated any financial revenue through consultancy services till date. Only admissible Honorarium is given to the concerned Faculty members by the beneficiary Institutes/organisations.

3.5.5 What is the policy of the institution in sharing the income generated through consultancy (staff involved: Institution) and its use for institutional development?

As a Government Employee, faculty members provide honorary consultancy service. As no income is generated, there is no question of sharing the income generated through consultancy for the institutional development.

3.6. Extension Activities and Institutional Social Responsibility (ISR)

3.6.1 How does the institution promote institution- neighborhood- community network and student engagement, contributing to good citizenship, service orientation and holistic development of students?

Barasat Government College organizes various programmes throughout the year to promote institution-neighborhood-community network. The Institution has a strong NSS committee. The NSS wing of the college started functioning in 2002 and has been an active body ever since. The present Unit Coordinator is Md. Abdur Rafik Sardar, faculty in the department of Bengali. The unit is involved in various community works around the year for the betterment of the neighborhood and the holistic development of the students. Student volunteers of NSS unit are also involved in different community services contributing to the good citizenship. In the session 2014-15, the NSS organized the following events:

Table 3.18: NSS activities in the Year 2013-14

Sl No.	Date	Programme	Venue
1.	05.06.2014	World Environment Day celebration	Awareness rally in and around college with festoon and poster
2.	01.07.2014-02.08.2014	Weeds cleaning in the campus	College campus
3.	15.07.2014	Tree-planting programme	College campus

4.	04.08.2014	Rakhi-Bandhan	College campus
5.	26.08.2014	West Bengal State National Service Scheme	Ramakrishna Mission, Golpark, Kolkata
6.	20.09.2014	DLSA, Anti-ragging activities	Rabindra Bhavan, Barasat
7.	14.11.2014	Observation of Children's Day	College Campus
8.	16.11.2014	Campus beautification	College Campus
9.	16.11.2014	Programme on the Protection of Child Rights	Seminar Hall, New Building

- An awareness programme was organized by Environment Protection and Nature Cell of this college in collaboration with Successor's Elevating Forum on 19th August 2013 regarding Safe handling / usage / savings of Indane LPG domestic Gas. An interactive session and a Quiz Competition was also held after the programme. Honorable Speakers were:
 - ☞ Mr. Prasun Kumar Roy, Secretary Successor's Elevating Forum
 - ☞ Mr. P.K. Ghosh, Sales Manager, Indane LPG domestic Gas
- The college NSS unit has organized a programme on "Rastriya Ekta Divas" on 31st October 2014 to commemorate the Birth Anniversary of Sardar Vallabhbhai Patel.
- A special Lecture on "Vivekananda: His Thoughts" was organised on 7th March 2014 with joint collaboration of Philosophy and Sanskrit Departments to promote value education among the students.
- College has organized a programme to celebrate 125th birth anniversary of Dr. B. R. Ambedkar to promote national integration and social harmony.
- A seminar on 'Child Rights' was organized by the NSS unit of the college on 29.03.2015.
- The department of Political Science has organized a special Awareness programme on 'Human Rights' in which former Chairman of NHRC, Hon'ble Justice Chittatosh Mookerjee, delivered a keynote address.
- A seminar on Rain Water Harvesting was arranged in collaboration with SWID, Govt. of W.B. on 10th February 2015.
- College has also organized a workshop to promote awareness among the students regarding Thalassaemia and performed blood screening. Total 101 persons are tested, among which 05 students and 02 teachers are found to be carrier.

- A special Programme on Yoga was held on 1st July 2015 in the seminar hall of the college for general health awareness.

In addition to all these, the students of this college also interacted with a group of foreign students from UK, Europe and Australia in November 2014 whereby cultural exchanges between different continents were taken place.

3.6.2 What is the Institutional mechanism to track students' involvement in various social movements/activities which promote citizenship roles?

- The college has several bodies like NSS committee, Sport Committee, Cultural Committee etc. constituted with Departmental Teachers to supervise the students' activities inside and outside the campus. The teachers always guide and accompany the students in their involvement of various social movements and activities for promoting citizenship role.
- District Administration sends forms for incorporation of adult students in the Voter's List and monitors the process.
- College NSS unit is guided by few college teachers who are whole heartedly involved with students' social activities. Various committees like Cultural Sub-committee, Seminar Sub-committee, and Beautification Sub-committee work together and exchange ideas with students to work out fruitful method of promoting Institution-neighbourhood-community network.

In addition some selected students are also sent to the nearby 'Kishalaya Home' to provide free tuitions to the children and to involve them in various cultural activities.

3.6.3 How does the institution solicit stakeholder perception on the overall performance and quality of the institution?

The College encourages stakeholders to engage in its day to day working through interactions with students, parents and guardians of the students, the members of the faculty and the alumni. As part of the Internal Quality Assessment, the final year UG students fill in feedback questionnaires on teaching-learning process and infrastructural support of the College. This feedback is considered by the respective departments in order to enhance the teaching-learning process and incorporate the valid suggestions of the students. Parent-teacher meetings are held on a regular basis to update the parents about the performance and attendance of their ward and

to learn about the special needs of the individual students. The College interacts closely with its alumni and collaborates with them on several important occasions.

3.6.4 How does the institution plan and organize its extension and outreach programmes? Providing the budgetary details for last four years, list the major extension and outreach programmes and their impact on the overall development of students.

Our institution encourages both students and faculty members to be a part of the NSS scheme thus training the students in community service and making them responsible citizens of India. In our college the convener of NSS unit take care of the necessary expenses which are tabulated below.

Table 3.19: Expenses of NSS

Year	NSS Seminar (Rs.)	NSS Special Camp (Rs.)
2010-2011	Rs. 13,000/-	Rs. 12,000/-
2011-2012	Rs. 13,000/-	Rs. 20,000/-

3.6.5. How does the institution promote the participation of students and faculty in extension activities including participation in NSS, NCC, YRC and other National/International agencies?

- Students are always encouraged by our teachers to join NSS service. The students' representatives of our Students' Union campaign in the classes to voluntarily join the social services.
- A faculty member acts as Coordinator of NSS unit and always communicates with the students to ensure their greater involvement.
- Teachers are also motivated by the Principal to join the NSS camp and make the extension activities meaningful.
- Teachers are encouraged by the Principal to give free service to the boarders of nearby 'Kishalaya Home'.

3.6.6 Give details on social surveys, research or extension work (if any) undertaken by the college to ensure social justice and empower students from under-privileged and vulnerable sections of society?

In spite of its manifold academic commitments, Barasat Govt. College also takes into consideration the problems and necessities of the differently able students of this college. According to the norms and guidelines of UGC, the college has constituted the 'HEPSN sub-committee' and the 'Equal Opportunity Cell' for providing and monitoring the necessary support system to the students with special needs. The college also ensures barrier-free environment for students with special learning needs and assures them equal opportunities and full participation in regular teaching-learning process and similar co-curricular activities in the college premises. The above mentioned committee arranged several awareness programmes, seminar and discussions on inclusive-education.

Followings are a few awareness programmes organized by this committee:

- An awareness programme was organized in the seminar hall of the college on 21st September 2012 and the topic was "The Problems of Inclusion in Higher Education, For Persons with Disabilities."
- On 27th March 2015, another seminar was arranged by the college on "The Role of Mass Media in Creating Social Awareness for the Differently Able".

On the whole, the college makes sincere endeavor to look after the facilities of the students with special needs by arranging for wheel-chair, building ramps and special toilets and procuring Braille books for the visually challenged. These efforts do not only reassure the differently-abled students but also reflect the sensitized atmosphere of the institution.

3.6.7 Reflecting on objectives and expected outcomes of the extension activities organized by the institution, comment on how they complement students' academic learning experience and specify the values and skills inculcated.

The involvement of students in NSS activities, extension activities and social survey activities enable the students to communicate with different levels in society, which

- ☞ make them sensitive towards social realities,
- ☞ inculcate within them the spirit of social service,
- ☞ teach them to be responsible citizens, and
- ☞ contribute to the process of Nation building.

They also acquire a leadership quality, a sense of discipline and team spirit. Hence such activities contribute towards holistic education which is the proclaimed goal of the Institution.

3.6.8 How does the institution ensure the involvement of the community in its reach out activities and contribute to the community development? Detail on the initiatives of the institution that encourage community participating in its activities?

The Institution is an exemplary centre of excellence in the region which imparts along with academic instructions to its students, the fundamental values of life. Hence,

- Students are encouraged to clean the college and the surrounding area. They also organize “Plastic free” drive campaigns not only within the college campus but also in the neighboring locality. During this campaign they collect and get rid of all plastic materials which are less than 40 microns thick. The students also try to convey to the local people the harmful effects of reusing thin plastic sheets and bottles.

Faculties of the college are equally responsive to social callings.

- Dr. Madhumita Manna, faculty of Department of Zoology had participated in 'Kala-azar Detection Camp' in collaboration with National Medical College in the year 2013 and 2014. This has been helpful for the villagers and a great inspiration for the students, who have been enthused to participate in and contribute to similar camps.
- Dr. Mrinal Kanti Sarkar, faculty of Department of Philosophy acts as secretary of a welfare organization "Suchetana" (Registration No. WB/sh-51 of 2013-2014) and is actively involved in different social activities and community development programmes.
- Dr. Manju Mandal has been instrumental in getting the stray mongrels living in the campus sterilized and vaccinated. She also feeds them regularly. An act that has inspired students to be kind towards animal and respect the bonding of man and his environment – a fundamental component of holistic education.

3.6.9 Give details on the constructive relationships forged (if any) with other institutions of the locality for working on various outreach and extension activities.

- The outreach activities have most satisfactorily culminated into the Institution's collaboration with the Kishalaya home for children. In the coming years this would be one of the most cherished extension programmes on societal service that the Institution would be involved in.

- Mass Vaccination cum Awareness Programme has been organized by the "Nature Protection Cell" of Barasat Government College in collaboration with Barasat Municipality, Progressive Veterinary Doctors Association and Animal Support Group (NGO) for vaccination of stray dogs inside and outside the campus.
- In the years 2013 and 2014, the College in collaboration with Calcutta National Medical College organized Kala-azar Detection Camp led by Dr. Madhumita Manna, Associate Professor of Zoology of this College. The purpose of the camp was to cater the poor people of the Kala-azar endemic zones of West Bengal and adjoining Jharkhand state in the form of check up for detection of Kala-azar among them. In 2013, the team organized the camps at Maheshtala (Birbhum) and Pakuria (Jharkhand) in collaboration with Lion's Club of Murarai and Lion's Club of Rampurhat. Next year, camps were organized in collaboration with another NGO at Beroil, Kushmandi, Dakshin Dinajpur, Maheshtala (Birbhum), Hatiara Missionary School (Birbhum), Rajgram Battala (Birbhum) and Pakuria (Jharkhand) for awareness of the local people and for searching new pockets of Kala-azar. Dr. Anjan Kumar Das, Associate Professor, Calcutta National Medical College was an important member of the team to conduct the camps.

3.6.10 Give details of awards received by the institution for extension activities and/contributions to the social/community development during the last four years.

Following awards/recognitions were received by the students for several extension activities:

Table 3.20: Awards/Recognitions of Students of the Institution

SL. No.	Name of the student/s	Department	Event	Awarded/Participated	Year
1.	A group of students of the department	Political Science	Youth Parliament Competition, organized by Ministry of Parliamentary Affairs	District level Champion	2011
2.	Sahida Khatun	B.A. General (Morning)	State award for Empowerment of Persons with Disabilities	Award given in the category of 'Role Model' for her outstanding performance in sports	2013
3.	Two groups of three students each	Chemistry	'ChemiQuiz' organised by Presidency University	One group Stood 3 rd in the quiz competition	2015

3.7. Collaboration

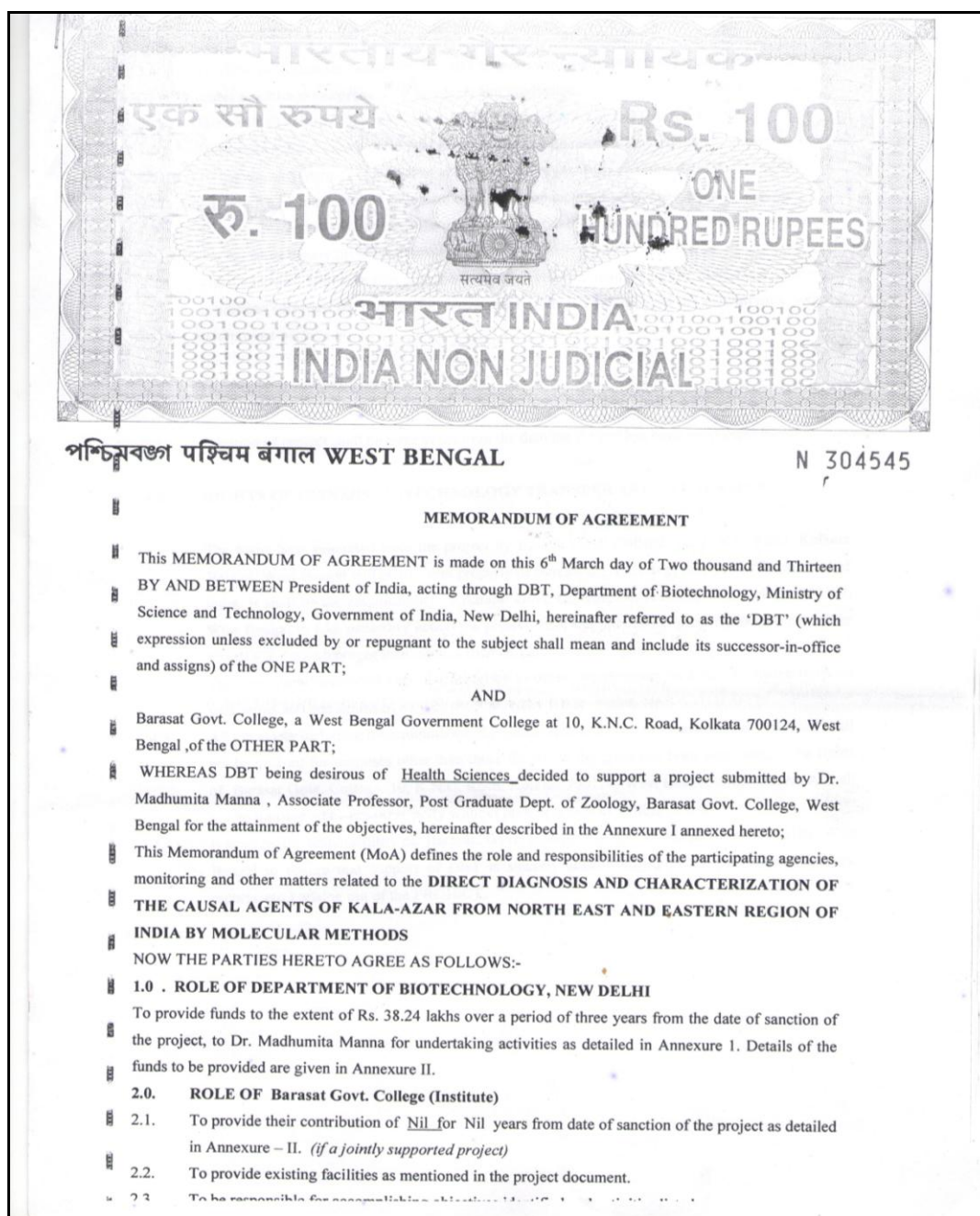
3.7.1 How does the institution collaborate and interact with research laboratories, institutes and industry for research activities. Cite examples and benefits accrued of the initiatives-collaborative research, staff exchange, sharing facilities and equipment, research scholarships etc.

The Departments of the Institution have so far organized several UGC-sponsored National and State Level Seminars, Workshops and other events in collaboration with other institutes/organisations [Table 3.8]. These events serve as common platforms for interactions between the Faculty, Experts of other Institutes, research scholars and students. The faculty members of the College individually collaborate with other research laboratories and institutes for pursuing their pre and post-doctoral research work. A few examples are given below.

- Dr. Madhumita Manna, Associate Professor of Zoology is presently continuing her collaboration with Gauhati Medical College, Assam and Calcutta National Medical College, Kolkata for a major research project (amounting Rs. 99.98 L) under DBT TWINNING Programme for NE.
- Dr. Dipanwita Majumdar, Assistant Professor of Department of Chemistry is engaged in collaborative research with Prof. Swapan Kr. Bhattacharyya, Department of Chemistry, Physical Chemistry division, Jadavpur University, Kolkata.
- Mina Mazumder, Assistant Professor of Physics started collaborative research programme with the Department of Theoretical Physics, IACS, Kolkata.
- Dr. Sankar Mandal, Assistant Professor of Physics is continuing collaborative research with Professor D. Chakraborti (Emeritus Professor) at IACS, Jadavpur.
- Dr. Srijit Bhattacharya, Assistant Professor of Physics collaborated with experimental Nuclear Physics Division at VECC, Kolkata.
- Dr. Jyotirmoy Maiti, Assistant Professor of Physics collaborated with Theory division SINP, Kolkata and Department of Theoretical Physics, TIFR, Mumbai.
- Dr. Pradip Mukherjee, Professor of Physics continued his collaboration with Professor Rabin Banerjee, SNBSCBS, Kolkata.

3.7.2 Provide details on the MoUs/collaborative arrangements (if any) with institutions of national importance/other universities/industries/Corporate (Corporate entities) etc. and how they have contributed to the development of the institution.

A Memorandum of Agreement was made between DBT , Department of Biotechnology, Ministry of Science and Technology, Govt. of India and Barasat Govt. College whereas DBT being desirous of Health Sciences decided to support a project submitted by Dr. Madhumita Manna, Faculty of Department of Zoology. Front page of the Memorandum is given below.



3.7.3 Give details (if any) on the industry-institution-community interactions that have contributed to the establishment/ creation/up-gradation of academic facilities, student and staff support, infrastructure facilities of the institution viz. laboratories/library/new technology/placement services etc.

The industry-institution-community interactions have not directly contributed to the establishment/creation/up-gradation of academic facilities, student and staff support or infrastructure facilities of the Institution. However, Career Counselling Cell of the College which takes active role to inform the students about different career opportunities in various industries/companies. Details of such programmes of the Cell is being shown in the Criterion II, section 2.6.4, Table 2.18.

3.7.4 Highlighting the names of eminent scientists/participants who contributed to the events, provide details of national and international conferences organized by the college during the last four years.

Many eminent scientists/academicians/resource persons visited the College for participating in the National seminars, conferences and special lecture organized by different departments of the College. The detailed list has been given in Table 3.8.

3.7.5 How many of the linkages/collaborations have actually resulted informal MoUs and agreements? List out the activities and beneficiaries and cite examples (if any) of the established linkages that enhanced and/or facilitated-

Some examples of informal linkages that enhanced or facilitated the following are given below.

a) Curriculum development/enrichment- Curriculum development at the UG level is a collective process under the leadership of the University. The teachers of the College who are BOS members actively take part in the development of the curriculum. They express their opinions during introduction of new Curriculum or for amendment/change of the existing Curriculum. The PG Departments like Physics, Botany, Bengali etc have also introduced changes in the existing M.A/M.Sc. syllabi and has also been successful in introducing some Special Papers in M.A/M.Sc.

b) Internship/On-the-job training - The career-cell has been entrusted to procure information in this matter, so that in future the college can facilitate Internships/on the job-training.

c) Summer placement - None yet, but the career-cell is giving this point utmost attention.

d) Faculty exchange and professional development - The collaborative research work with premier institutes, along with Refresher Course and Orientation Programmes, enable faculty development. Faculty exchange programmes are not possible as it would require different levels of government order and negotiation.

e) Research - Some of the faculty members have done and/or are doing research work in collaboration with other national and international institutes. These have resulted in quite a few collaborative research projects and several publications in national and international journals. These have been presented in the relevant sections [Table 3.6 and Annexure-1]

f) Consultancy- Collaboration with the institutes enables the departments of the college to consult with the faculty members of the collaborative institutes regarding various academic.

g) Extension - The Institution has successfully organized several extension activities in collaboration with various agencies. [Section 3.6.1, Table 3.8]

h) Publication - Nil

i) Student Placement- The Career Counselling sub-committee of the College organizes placement drives from time to time.

j) Twinning programmes- Dr. Madhumita Manna, Associate professor of Zoology is presently continuing her collaboration with Gauhati Medical College, Assam and Calcutta National Medical College, Kolkata for a major research project (amounting Rs. 99.98 L) under DBT TWINNING Programme for NE.

k) Introduction of new courses- This is subject to the permission from the affiliating university, that is, WBSU and Govt. of West Bengal. Proposal for post-graduation course in Chemistry was submitted to the Higher Education Department, Govt. of West Bengal for necessary approval. Proposals were also made for the introduction of UG courses in Statistics and Physical Education.

l) Student exchange- None

m) Any other- Nil

3.7.6 Detail on the systemic efforts of the institution in planning, establishing and implementing the initiatives of the linkages/ collaborations.

Even though this aspect of academic pursuit is not specifically included in the College curriculum, however individual teachers and their expertise as researchers engaged in exchange of academic dissemination of information often generate linkages and collaborations.

CRITERION – IV

INFRASTRUCTURE AND **LEARNING RESOURCES**

CRITERION IV: INFRASTRUCTURE AND LEARNING RESOURCES**4.1. Physical Facilities****4.1.1 What is the policy of the Institution for creation and enhancement of infrastructure that facilitate effective teaching and learning?**

The policy of the institution focuses on optimal utilization of the available infrastructural resources, given the fact that the College has a limited land area. In the last few years the College has witnessed the completion of the four-storied Annex Building, augmentation of floor space for the Department of Botany and Zoology in the Main Building to accommodate new laboratories meant for specialized research, ongoing construction of the new Chemistry building, revamping the floor area of Central Library, addition of new classrooms on the ground floor of Main building by shifting the Boys' and Girls' Common Rooms to a standalone facility, landscaping and beautification of the campus area etc. In addition to this, proposals have been sent for construction of 'Library and Morning Section Building' and 'Extension of Annex Building'. The total built-up area of the College being 3,245 sq.mts. out of 9,029 sq.mts. of available land area, there is a limited scope for horizontal expansion. However, the College authority is hopeful that the augmentation of infrastructural facilities will reflect positive results in effective teaching-learning.

The College authority is careful in creation and maintenance of physical assets within the campus. Apart from regular aspects like classrooms, laboratories etc., the authority is also attentive to other specific needs. For example, the flooring of PG Departments of Botany and Zoology have been done with vitrified tiles, so that dust particles which may compromise research findings, can be eliminated. New toilet complexes have been set up especially for the students, adequate power back-up facility has been created, the reading room of the Central Library has been brought under air-conditioning facility and introduction of Campus Wi-Fi network solutions is on the anvil.

It is hoped that the blend of physical infrastructure with the human resource will help the College to scale newer heights in terms of teaching-learning process.

4.1.2. Detail the facilities available for

a. Curricular and co-curricular activities – classrooms, technology enabled learning spaces, seminar halls, tutorial spaces, laboratories, botanical garden, Animal house, specialized facilities and equipment for teaching, learning and research etc.

- Following are the details of Classrooms, laboratories and computer laboratories available in different Departments of the College

Location/ Department	Number of Classrooms	Technology enabled learning space	Number of Laboratories	Number of Computer Laboratories
Main Building	07	--	--	--
PG department of Bengali	05	--	--	--
PG Department of Zoology	05	01	05	01
PG Department of Physics	04	--	06	01
PG Department of Botany	04	01	10	01
Department of Geography	03	--	01	01
Dept. of Economics and Mathematics	02	--	01	01
Department of Chemistry	04	--	05	01
Total	34	02	28	06

- Rest of the infrastructural aspects are being mentioned below

<i>Seminar halls</i>	<p>The College has built a state-of-the-art sound proof air-conditioned Auditorium-cum-Seminar Hall on the second floor of the Annex Building, where all modern facilities are available to conduct seminars, lectures, presentations, film shows and other functions.</p> <p>Additionally, two air-conditioned e-classrooms have also been established in the PG Departments of Zoology and Botany. These facilities can alternatively function as Seminar Halls and are utilized to conduct Departmental seminars and other notable academic activities.</p>
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<i>Tutorial spaces</i>	Normal classrooms are utilized as tutorial space beyond regular class hours
<i>Botanical garden</i>	The College has a medicinal plant garden maintained by the faculty members of PG Department of Botany.
<i>Animal house</i>	The college is considering for introduction of this facility, pending the necessary approval from regulatory authorities.
<i>Specialized facilities and equipment for teaching, learning and research</i>	<p>All science Departments have specialized facilities for research. Along with these e-classrooms have been set up in the Departments of Zoology and Botany to augment the process of teaching-learning.</p> <p>The PG department of Physics has a scanning tunnelling electron microscope, an F.T.I.R, an UV-Vis spectrophotometer, material preparation furnace and ovens, battery tester and MHz-GHz spectrum analyser among the state of the art facilities.</p> <p>The PG Department of Botany has an array of modern devices such as microscopic techniques (digital and phase contrast microscopes), several electrophoresis devices, lyophiliser, thermocycler, UV-VIS spectrophotometer, gel documentation system, -20⁰ freezer, several laminar airflow, cold centrifuge, rotary microtone, rotary evaporator, double distillation set, flame photometer and such other instruments. Thus it is feasible for the students as well as faculty members to device any research plan and perform a major part of their research work here only. By using this facilities even the PG students have accomplished the feat of publishing their research works in many national and international journals.</p> <p>The laboratory resources of the PG Department of Zoology include ELISA reader, Gel Doc apparatus, Thermocycler, Cold Centrifuges, Spectrophotometer, Digital balances, -20⁰ freezer, Phase Contrast microscope with photographic attachment, Sterilizing hood, Protein and DNA Gel electrophoresis apparatus, distillation plant etc. and a Museum comprising common as well as rare zoological specimens. Separate laboratories are available for the varied specializations of M.Sc while the faculties also have their own laboratories for research purposes.</p>



Photograph 4.1: Special Research Laboratory in PG Department of Botany



Photograph 4.2: Students of Geography Honours engaged in Survey

b. Extra-curricular activities – sports, outdoor and indoor games, gymnasium, auditorium, NSS, NCC, cultural activities, Public speaking, communication skills development, yoga, health and hygiene etc.

<i>Sports; Outdoor and Indoor games</i>	Yes, the College offers facilities for Volleyball, Badminton and Football among the outdoor games. Carom and Table Tennis facilities are also available in the Common rooms as indoor games.
<i>Gymnasium</i>	Yes, the College has well-equipped multi-gym facility.
<i>Auditorium</i>	Yes, the College has built a state-of-the-art sound proof air-conditioned Auditorium-cum-Seminar Hall on the second floor of the Annex Building. Good quality sound system, flat panel LCD TV with satellite downlink, remote controlled fixed overhead projector with screen, whiteboard, ambient lighting, cushioned chairs, attached toilet, concealed wiring, wooden veneers in walls and flooring – these are some of the facilities of the Auditorium.
<i>NSS, NCC</i>	The College has an active unit of the NSS, which engages in various community outreach programmes. However, currently there is no NCC unit.
<i>Cultural activities</i>	Yes, the College offers all necessary facilities for hosting cultural functions. In case of large gatherings, the nearby Govt. run auditorium complex named Rabindra Bhavan is utilized.
<i>Public speaking</i>	Though the College does not have any specific facility for this purpose, students' seminars, debates and extempore offer proper platforms to develop this skill.
<i>Communication skills development</i>	The College is yet to offer specialized language laboratory facility. However, proposals to set up such facility are being considered actively.
<i>Yoga</i>	Yes, there are facilities for practising Yoga.
<i>Health and hygiene</i>	Yes, healthcare needs of students are met through Students' Health Home. There is also First Aid facility available in the campus. Nearly all teaching and non-teaching staff have been covered under Cashless West Bengal Health Scheme.



Photograph 4.3: Students' Seminars provide platform to hone Public Speaking Skills



Photograph 4.4: Yoga session at the College

4.1.3. How does the institution plan and ensure that the available infrastructure is in line with its academic growth and is optimally utilized? Give specific examples of the facilities developed/augmented and the amount spent during the last four years (Enclose the Master Plan of the Institution / campus and indicate the existing physical infrastructure and the future planned expansions if any).

As mentioned in Point No. 4.1.1 above, the College has witnessed the completion of the four-storied Annex Building, augmentation of floor space for the Department of Botany and Zoology in the Main Building to accommodate new laboratories meant for specialized research, ongoing construction of the new Chemistry building, construction of ramp and railing in both the Main building and Annex building, revamping the floor area of Central Library etc. in the last few years. In addition to this, proposals have been sent for construction of 'Library and Morning Section Building' and 'Extension of Annex Building'. While the Master Plan is being enclosed in the next section, the following table shows some of the grants received by the College to augment the physical infrastructure.

Table 4.1: Instances of utilization of Grants to augment Physical Infrastructure

Name/Purpose of the Grant	G.O. Number	Amount (Rs.)	Status
UGC Golden Jubilee Grant for Construction of Extension of Annex Chemistry Building	WG-032/11-12 dated 05.12.13 and 02.01.14	25,00,000	U.C on 11.09.13 and 23.06.15
Govt. Grant for Construction of Annex Chemistry Building	G.O. No.132/Sanc/ EH/P/CG/ 4-C-77/2012 dated 20.07.12	46,46,969	U.C Submitted
Govt. Grant for Construction of Extension of New Science (Annex) Building	G.ONo.691(Sanc)/ EH/ P/CG/4C-106/ 2011 dated 17.02.15	5,00,000	Revalidation Submitted
UGC Fund for B.A. Building	MSWS-039/09-10 (ERO) dated 01.11.11	9,00,000	U.C on 04.09.12 and 10.12.13
UGC Grant under HEPSN Component-2 for Construction of ramp and railing	MSWS-039/09/10 dated 01.11.11	5,00,000	U.C on 11.09.13
	MSWS-039/09/10 dated 09.09.14		



4.1.4. How does the institution ensure that the infrastructure facilities meet the requirements of students with physical disabilities?

Construction of ramp and rail in both the Main building and the Annex building has been completed by utilizing UGC Grant under HEPSN Component-2 for Construction of ramp and railing. However, it should be mentioned here that this being a Government College, all infrastructural plans and works are commissioned and executed by the PWD, as per proposals of the College authority. Hence, the College has little scope to retro-fit the existing buildings with lift/elevator on its own. However, option for installing elevators are under active consideration. For the time being, the classes of these differently-abled students are placed on the ground floor as far as practicable while preparing the routine.

On the other hand, the College has ensured basic facilities for the persons with disabilities, such as provision for wheel chair, braille books in the library, hearing aid facility etc. The HEPSN sub-committee is actively exploring other options to improve such infrastructure.

4.1.5. Give details on the residential facility and various provisions available within them:

<i>Hostel Facility – Accommodation available</i>	While the College is yet to have its own hostel, arrangements have been made to reserve boarder seats for SC, ST girl students in the nearby Sarama Singh Girls' Hostel, run by Backward Classes Welfare Department, Govt. of West Bengal. Construction of a hostel is under active consideration of the College. Proposals for allotment of land in this regard are being sent to proper authorities.
<i>Recreational facilities, gymnasium, yoga centre, etc.</i>	Such facilities cannot be offered as the College yet to have its own hostel. However, all of these recreational facilities are available within the College campus during regular College hours.
<i>Computer facility including access to internet in hostel</i>	N.A.
<i>Facilities for medical emergencies</i>	N.A.

<i>Library facility in the hostels</i>	N.A.
<i>Internet and Wi-Fi facility</i>	N.A.
<i>Recreational facility-common room with audio-visual equipment</i>	N.A.
<i>Available residential facility for the staff and occupancy</i>	<p>Since the teachers are cadres of W.B.E.S, State Government Quarters are arranged for them by the district administration as and when they apply for the same.</p> <p>While one Quarter is available for Non-teaching staff within the College campus, accommodation is also provided by the district administration as and when they apply.</p>
<i>Constant supply of safe drinking water</i>	N.A.
<i>Security</i>	N.A.

4.1.6. What are the provisions made available to students and staff in terms of health care on the campus and off the campus?

Govt. Hospital as well as a number of private hospitals are in the close vicinity of the College. These are availed in case of emergency. All teaching and non-teaching employees of the institution and their family members, are assured of their health insurance aspects through the Cashless West Bengal Health Scheme. Healthcare needs of students are met through Students' Health Home and accordingly each student is charged a nominal fee at the time of admission. There is also First Aid facility available in the campus.

Thalassemia carrier detection for all students has begun in the on-going academic session. Five students and two teachers have been identified as carriers and reports have been sent to the Department of Health and Family Welfare, Government of West Bengal for necessary follow up.

4.1.7. Give details of the Common Facilities available on the campus – spaces for special units like IQAC, Grievance Redressal unit, Women’s Cell, Counselling and Career Guidance, Placement Unit, Health Centre, Canteen, recreational spaces for staff and students, safe drinking water facility, auditorium, etc.

<i>IQAC</i>	Yes, a room is provided in the third floor of Main building.
<i>Grievance Redressal unit</i>	Yes, a room has been allotted for running the Internal Complaints Committee and Grievance Redressal Cell.
<i>Women’s Cell</i>	Yes, the room for ICC is alternatively utilized.
<i>Counselling and Career Guidance</i>	Yes, a room has been allotted on the ground floor of Main Building for the Career Counselling Cell of the College.
<i>Placement Unit</i>	It is available along with career counselling cell
<i>Health Centre</i>	First Aid facility is available within the campus. Students are eligible to receive medical facilities under Students’ Health Home. Teaching and non-teaching staff are eligible to receive cashless treatment under West Bengal Health Scheme.
<i>Canteen</i>	Yes, a subsidized canteen has been set up in the College.
<i>Recreational spaces for staff and students</i>	Yes, such facilities are available for both staff and students.
<i>Safe drinking water facility</i>	Yes, such facility is available at multiple locations.
<i>Auditorium</i>	Yes, an auditorium has been set up.



Photograph 4.5: Subsidized canteen of the College

4.2. Library as a Learning Resource

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

Yes, the library has an advisory committee comprising the teachers of different departments as members, Principal of the College as Chairman and Librarian as Convener, one student as co-opted member and Library Assistants are invitee members.

As per the decision of the Committee the following significant aspects have been implemented to make the library user-friendly:

- Timing of the library has become effective for users of both morning and day section.
- Process of Computerization of library resources is going on and process of accessioning and Cataloguing of new books are being computerized.
- New books are purchased keeping in mind the effectiveness of collection development.
- Internet facility is being provided to users.
- AC is installed in the Reading Room to make it user-friendly.
- More and more books are sent to the Seminar Library for effective use.
- Besides regular Pest Control, Fumigation Chamber is used for book preservation.

4.2.2. Provide details of the following:

<i>Total area of the library (in Sq. Mts.)</i>	400 sq. mts.
<i>Total seating capacity</i>	37
<i>Working hours (on working days, on holidays, before examination days, during examination days, during vacation)</i>	Monday to Friday: 9.00 a.m. to 5.00 p.m. Saturday: 9.00 a.m. to 2.00 p.m. During Examination: as usual timing Vacation: 11.00 a.m. to 4.00 p.m.
<i>Layout of the library (individual reading carrels, lounge area for browsing and relaxed reading, IT zone for accessing e-resources)</i>	It is available at the College Library for perusal.



Photograph 4.6: Reading Room of our College Library



Photograph 4.7: Lending Section of the College Library

4.2.3. How does the library ensure purchase and use of current titles, print and e-journals and other reading materials? Specify the amount spent on procuring new books, journals and e-resources during the last four years.

The collection of the library is worthwhile and need-based to its users. After ascertaining both the expressed and unexpressed demands of the users through the statistics relating to books circulated from and consulted in the library and suggestions from the library staff working in the circulation counter and also from the users and faculty members, the books and other printed materials are purchased in the library as soon as funds come from State Govt., UGC or DST keeping in mind the syllabi of the courses run in the college itself.

Table 4.2: Year-wise Purchase of Books and Journals in the central Library.

Library holdings	2011-2012		2012-2013		2013-2014		2014-2015	
	No.	Total Cost (Rs.)	No.	Total Cost (Rs.)	No.	Total Cost (Rs.)	No.	Total Cost (Rs.)
Text books	2,712	12,63,391	1,412	6,91,434	1,467	7,02,688	780	2,70,500
Reference Books								
Journals/ Periodicals	21		20		25		33	
e-resources								
Any other (specify)								

4.2.4. Provide details on the ICT and other tools deployed to provide maximum access to the library collection?

<i>OPAC</i>	OPAC facility exists in the library by which the user can know the status of a particular document.
<i>Electronic Resource Management package for e-journals</i>	The College has subscribed the membership of INFLIBNET-NLIST and British Council Library.
<i>Federated searching tools to search articles in multiple databases</i>	No
<i>Library Website</i>	The College website has a link to Library of the College.
<i>In-house/remote access to e-publications</i>	No

<i>Library automation</i>	Library automation process is going on using LIBSYS Software.
<i>Total number of computers for public access</i>	03
<i>Total numbers of printers for public access</i>	In special cases one printer is made available for users.
<i>Internet bandwidth/speed 2 mbps 10 mbps 1gb (GB)</i>	2 mbps
<i>Institutional Repository</i>	Nil
<i>Content management system for e-learning</i>	N.A.
<i>Participation in Resource sharing networks/consortia (like Inflibnet)</i>	INFLIBNET on line journals and British Council Library on line journals

4.2.5. Provide details on the following items:

<i>Average number of walk-ins</i>	100 - 120
<i>Average number of books issued/returned</i>	40 - 45
<i>Ratio of library books to students enrolled</i>	3 : 1
<i>Average number of books added during last three years</i>	3659
<i>Average number of login to OPAC</i>	20 - 25
<i>Average number of login to e-resources</i>	10 - 15
<i>Average number of e-resources downloaded/printed</i>	10 - 15
<i>Number of information literacy trainings organized</i>	The College runs Computer literacy training programme. Besides the Library Staff help the student users with regard to information literacy.
<i>Details of “weeding out” of books and other materials</i>	Badly damaged books and documents are kept apart in some other places within the Library. The power of writing off the weeded out books is delegated to the member of the Governing Body of the College.

4.2.6. Give details of the specialized services provided by the library

<i>Manuscripts</i>	No
<i>Reference</i>	Reference service is provided on demand.
<i>Reprography</i>	Reprography service is available keeping in mind the rules in relation to IPR/Copyright Act.
<i>ILL (Inter Library Loan Service)</i>	No
<i>Information deployment and notification</i>	No
<i>Download</i>	User can download their required documents from e-corner of the library.
<i>Printing</i>	Printing facility is available in special cases.
<i>Reading list/Bibliography compilation</i>	Catalogue cards are consulted for bibliographic details.
<i>In-house/remote access to e-resources</i>	No
<i>User Orientation and awareness</i>	Library staff always help the users to know how to use the Library Catalogue and OPAC and how they can get their required books & documents from the library. Printed Library Rules also provided to each student user at the time of giving membership to them.
<i>Assistance in searching Databases</i>	The Library staff assist the users to search databases they require.
<i>INFLIBNET/IUC facilities</i>	INFLIBNET-NLIST journals are available on line.

4.2.7. Enumerate on the support provided by the Library staff to the students and teachers of the college.

- The library staff of the college have an unbiased and non-prejudiced mindset being at the receiving end to satisfy the needs of the users. They are friendly and willing to help users who have problems locating what they need in the library. They treat users with respect to make them feel important. In facts they have obsessive desire to provide quality service to their users.
- Career related magazines are displayed in the reading area of the library in order to help students for career development.
- Processing works for new books are done expeditiously to get them accessible to the users within a very short period of time after purchase.

4.2.8. What are the special facilities offered by the library to the visually/physically challenged persons? Give details.

Braille books are purchased for visually challenged persons and these books are kept in such a place where they can be used at ease.

4.2.9. Does the library get the feedback from its users? If yes, how is it analyzed and used for improving the library services. (What strategies are deployed by the Library to collect feedback from users? How is the feedback analyzed and used for further improvement of the library services?)

In the general feedback form supplied to the students, provision has been made to obtain formal feedback on the facilities and services of the library. Analysis of such feedbacks are shared with the Library staff to improve the standards of service. Feedbacks are also obtained from the users through verbal questions asked to them. Besides there is a suggestion box in front of the library room to obtain suggestions/complaints from the users. The feedback analysis is conducted from users' perspective considering the way in which the users view a particular phenomenon and how and why they consider strengths to be strengths and weaknesses to be weaknesses. Thus through this measure of evaluation, the library tries its best to achieve its goal to get its resources utilized.

4.3. IT Infrastructure

4.3.1. Give details on the computing facility available (hardware and software) at the institution.

<i>Number of computers with Configuration (provide actual number with exact configuration of each available system)</i>	130 number of desktop, laptop and all-in-one computers are available at the College. Of these, most are run with Operating system of Microsoft Windows-7 or above. Latest Office software is loaded in each machine. While the processor in some of the machines are of older configuration, the laptops are fitted with Intel Core2duo or Corei3 processor. In the department of Physics, nearly all desktop machines are run with Linux OS.
<i>Computer-student ratio</i>	1:21
<i>Stand-alone facility</i>	110

LAN facility	20
Wifi facility	100
Licensed software	RS_GIS software in the Department of Geography, LibSys in Library, COSA software in Office.
Number of nodes/ computers with Internet facility	100
Any other	

4.3.2. Detail on the computer and internet facility made available to the faculty and students on the campus and off-campus?

The following table shows the computer facility available with various department.

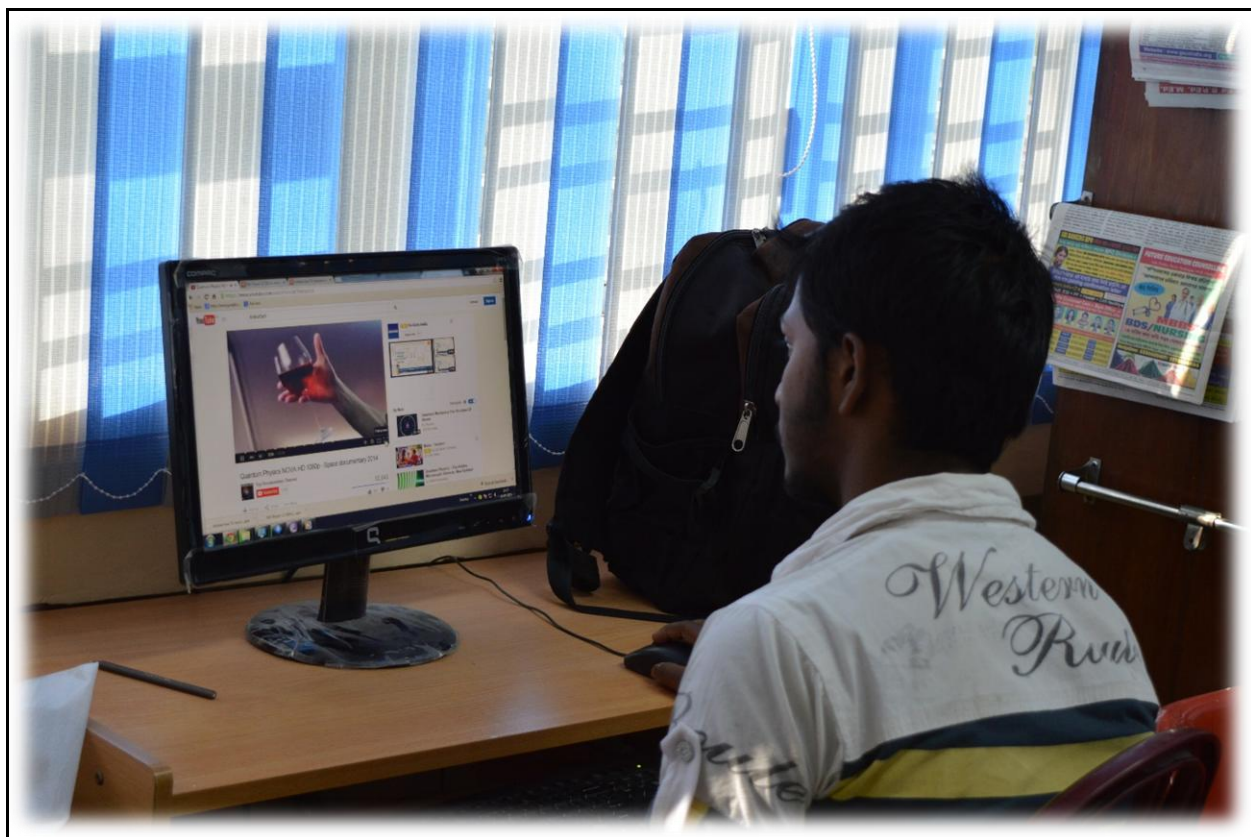
Table 4.3: Computers available for Staff and Students

Sl No.	Department/Location	Desktop	Laptop	Used by students
1.	Principal's Chamber	01 (All-in-One)	01	
2.	Bengali	02	01	
3.	Botany	12	02	
4.	Chemistry	04	02	02
5.	Economics	02	01	
6.	English		01	
7.	Geography	14	02	11
8.	History		01	
9.	Library	08	02	02
10.	Mathematics	17	02	13
11.	Philosophy		01	
12.	Physics	15	03	13
13.	Political Science		01	
14.	Sanskrit		01	
15.	Zoology	08	03	02
16.	Office	06		
20.	Career Counselling	01		
21.	IQAC	01 (All-in-One)		
22.	Admission Committee	02		
23.	Computer Training facility	12		
24.	Other	01		

Provision for imparting compulsory computer course to the under-graduate students of this College has been set up, in collaboration with the National Institute of Electronics & Information Technology (NIELIT), an affiliate of Dept. of Information Technology, Government of India.

All the departments, library and office have already been made Wi-Fi enabled through optical-fiber, whereby internet access is available to all the smart devices and gadgets located within a broad perimeter through a secured channel. Under the National Mission on Education through ICT (NMEICT), funded by the Ministry of Human Resource Development, Government of India, provision for high speed broadband internet by BSNL has been created in all the Departments, Teachers' Room, Library and College Office as well.

With fast-changing technological landscapes, medium of accessing internet is changing too. Instead of fixed nodes for internet access, Wi-Fi zones are the new norm. The College has already taken initiative to enable the entire College with Campus-Wi-Fi Solution Network.



***Photograph 4.8:** Internet facilities available for the Students in Central Library*

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

Following strategies have been deployed by College to upgrade IT infrastructure and Associated facilities.

- Using software for complete online admission process. This is in operation since 2013-2014 session.
- Online admission fee collection through SBI e-connect has been introduced. It has made the entire process easy and less time consuming for stakeholders.
- The college has introduced the following software programmes for financial management during the years that have created noticeable impact on the functioning of the college.

Sl. No.	Name of the Software	Purpose	Developed by
1	COSA	Pay Roll	NIC
2	E-Pradan	Accounting system	CMC
3	SBI e-connect linked e-fill up	Online admission	ITS

- The Central Library of the college has been upgraded with the installation of the following software.

Sl. No.	Name of the Software	Purpose	Developed by
1	LibSys	Digital cataloguing	LibSys
2	Inflibnet	Surfing for journals and periodicals	UGC

4.3.4. Provide details on the provision made in the annual budget for procurement, upgradation, deployment and maintenance of the computers and their accessories in the institution (Year-wise for last four years).

Procurement, upgradation and deployment of computers and their accessories are done by utilizing the funds available under Equipment grants received from the State Govt. under Plan head and from UGC under 'Additional Grant for equipment'. Details of funds made available and utilization of the same has been incorporated in Table No. 6.3 and Table No. 6.5 in Criterion-VI.

The UGC has decided to accord a total corpus fund of Rs. 27,95,580/- as Grant-in-aid under the head PBG-35 and Rs.6,98,895/- under the head PBG-31 to the College during the XIIth Plan period. Among these, an amount of Rs. 5,98,895/- in total is sanctioned as Instrument maintenance facility under the head PBG-35 and PBG-31, including repairing and maintenance of equipment. The college hopes to receive more of such grants in future. Also Rs. 50,000/- per annum is available from State Govt. for maintenance of equipment.

4.3.5. How does the institution facilitate extensive use of ICT resources including development and use of computer-aided teaching/ learning materials by its staff and students?

E-classrooms have been set up in various departments and the teachers are encouraged to conduct class lectures through power-point presentations. The response by the students is noteworthy and the College authority has decided to extend the facility to as many classrooms as possible. Besides, students get a hands-on training in use of computers and software in the computer laboratories of various departments.

4.3.6. Elaborate giving suitable examples on how the learning activities and technologies deployed (access to on-line teaching-learning resources, independent learning, ICT enabled classrooms/learning spaces etc.) by the institution place the student at the centre of teaching-learning process and render the role of a facilitator for the teacher.

ICT enabled class lectures are organized keeping the needs and specificities of the students in mind. They are also encouraged to utilize the internet browsing points made available at various locations. The Annex building of the College is currently Wi-Fi enabled, giving students the requisite scope for self-learning through internet. Again, the College Library offers a plethora of e-resources through UGC-Inflibnet facility and online access of British Council Library. Thus, the new era of teacher-student relationship is mediated by the proactive role of technology.

4.3.7. Does the Institution avail of the National Knowledge Network connectivity directly or through the affiliating university? If so, what are the services availed of?

Currently, the institute does not avail such services.

4.4. Maintenance of Campus Facilities

4.4.1. How does the institution ensure optimal allocation and utilization of the available financial resources for maintenance and upkeep of the following facilities (substantiate your statements by providing details of budget allocated during last Four years)?

Sl No.	Head of Account	Budget Allocated 2011-12	Budget Allocated 2012-13	Budget Allocated 2013-14	Budget Allocated 2014-15
a.	Building	22,50,000	77,96,969	25,00,000	5,00,000
b.	Furniture	5,50,000	6,50,000	1,80,000	--
c.	Equipment (State Govt.)	9,00,000	4,00,000	2,00,000	2,00,000
	Equipment (UGC)	10,80,000	2,37,500	1,00,000	1,42,500
	Equipment (Addl Grant)	9,02,000	12,50,000	11,27,500	12,25,500
d.	Computers	Budget allocated from within the grants for equipment			
e.	Vehicles	N.A.	N.A.	N.A.	N.A.
f.	Any other	N.A.	N.A.	N.A.	N.A.

4.4.2. What are the institutional mechanisms for maintenance and upkeep of the infrastructure, facilities and equipment of the college?

- Besides regular Pest Control, Fumigation Chamber is used for book preservation in Central Library and various departmental Libraries
- Annual Maintenance Contract (AMC) is done with respect to all computing machines, instruments and other such mechanical assets. Regular servicing of machines and calibration of sensitive equipment are done to keep them in order. Anti-virus packages are purchased on a regular basis to keep the configuration of the computing machines in optimal conditions.
- The different departments of the college take the responsibility to identify all un-useable/irreparable, rejected/discarded electrical and electronic products as e-waste products, which are kept in a separate, isolated, unexposed area, to prevent accidental breakage. In order to minimize the waste and to save resources, we always encourage recycling of all end-of-life useful products and valuable material from e-waste. On

another hand, Condemnation Committee of the College looks after proper disposal mechanism for discarded items. It organizes an auction so that the waste-material may be handed over to authorized recyclers for proper disposal.

4.4.3. How and with what frequency does the institute take up calibration and other precision measures for the equipment/ instruments?

- Digital Instruments in different lab-based departments are calibrated at the onset of the Practical Session by Faculty Members themselves, after which they are calibrated on a regular basis by the students before each and every experiment.
- All instruments are also calibrated annually by technical personnel provided by the instrument manufacturers.
- All microscopes are cleaned twice a year by professional personnel at the end of monsoon and again before the University practical examinations. Throughout the year general maintenance is carried out by the students and Group D staff.

4.4.4. What are the major steps taken for location, upkeep and maintenance of sensitive equipment (voltage fluctuations, constant supply of water etc.)?

The College has installed in a proper platform and shade, a silent auto- start pollution free DG Set of 50kVA capacity made by Cummins, Jackson to insure the sensitive instruments against voltage fluctuations. Constant supply of water is also ensured.

Any other relevant information regarding Infrastructure and Learning Resources which the college would like to include.

CRITERION – V

STUDENT SUPPORT AND PROGRESSION

CRITERION V: STUDENT SUPPORT AND PROGRESSION**5.1 Student Mentoring and Support**

5.1.1 Does the institution publish its updated prospectus/ handbook annually? If ‘yes’, what is the information provided to students through these documents and how does the institution ensure its commitment and accountability?

Yes, the Institution publishes its updated Prospectus every year for both UG and PG courses a copy of which is issued to the applicants at the time of admission. It is also made available through the college website. The prospectus provides extensive information regarding courses offered, structure of fees, faculty profile, scholarships and financial support to the economically weaker students etc. It also provides information on other facilities, rules and regulations of our College and the affiliating University. Relevant pictorial documentation of departmental and students’ activities are included in the prospectus. Likewise, the College publishes an annual Academic Calendar consisting of detailed information regarding College activities, e.g., examination schedule of the College, tentative dates of publication of College examination results, annual sports, list of holidays and dates to commemorate some special events.

The institution ensures its commitment and accountability by upholding its mission statements mentioned in the Prospectus. The annual academic calendar provides clear directives in planning and implementing certain broad objectives.

5.1.2. Specify the type, number and amount of institutional scholarships/free-ships given to the students during the last four years and whether the financial aid was available and disbursed on time?

Students of the College enjoy several types of incentives and scholarships from both government and non-government sources. Following are the details of such scholarships.

- ❖ Tuition fee-waiver scheme, or free studentship is the primary form of scholarship provided at the institutional level. The Departmental teachers interact closely with their students and recommend their names for free studentship, based on their merit and financial condition. In turn the College authority forwards those proposals which are approved by the office of Directorate of Public Instruction, Govt. of West Bengal.
- ❖ Apart from this, the institution provides aid to the students from the Students’ Aid fund

or popularly known as the Poor-Fund, for various purposes such as examination fees, educational tour expenses, purchase of books etc. Principal of the College also uses his discretionary power to waive the admission fee of needy students.

Figure 5.1: Number of Students enjoying Tuition fee Waiver Scheme

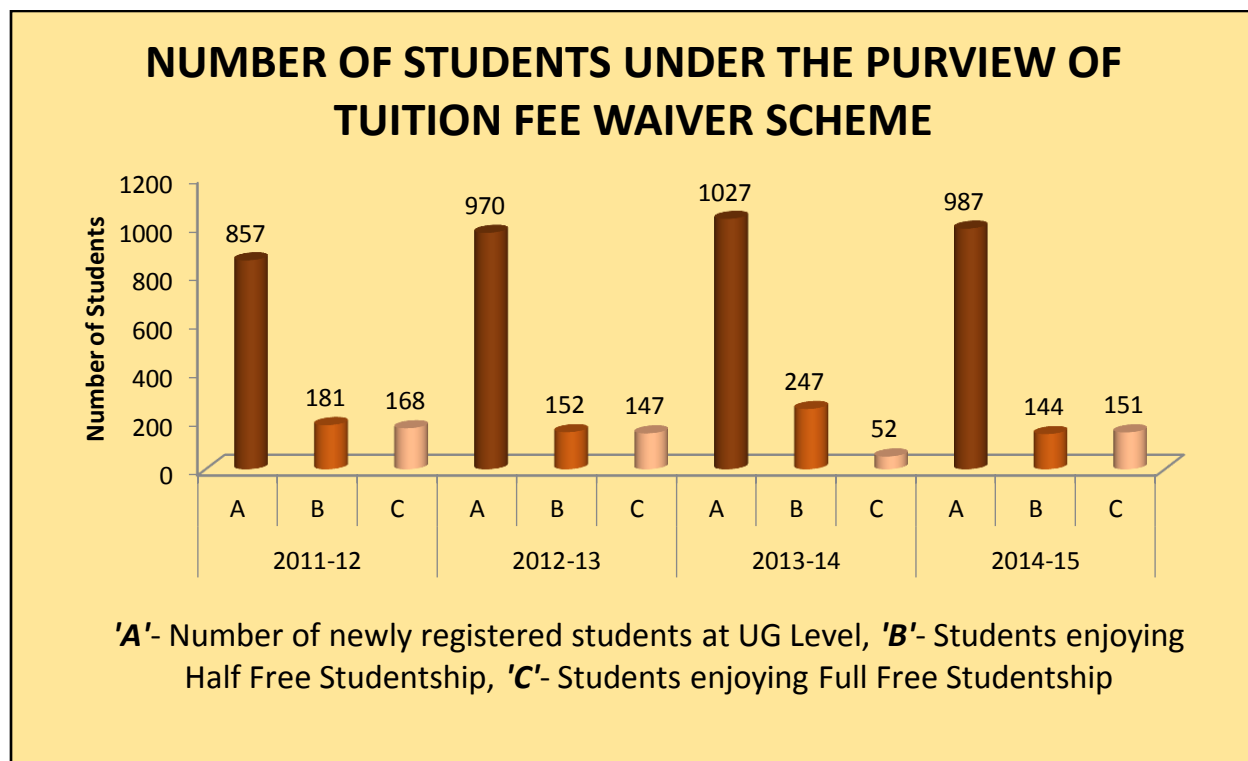


Table 5.1: Students benefitting from the Students' Aid Fund

Academic Session	No. of Recipients	Amount (in Rs.)
2010-2011	08	2,515
2011-2012	15	8,240
2012-2013	18	14,090
2013-2014	21	32,528
2014-2015	25	22,505

5.1.3. What percentage of students receive financial assistance from state government, Central government and other national agencies?

The students receive financial assistance from various sources of State Government and Central Government. Following are the details.

- ❖ **Kanyashree (K-2):** Unmarried girl students of this College are entitled to Kanyashree

(K-2) scheme since 2013. Under this scheme, one-time financial grant (Rs. 25,000/-) is provided by the Govt. of West Bengal, so that the girl students can pursue their higher studies smoothly. The eligibility criteria to avail such scholarship are as follows.

- Date of Birth: Between 01/4/1996 and 31/3/1997.
- Family income: Less than Rs.1,20,000/- per annum.
- She must be unmarried.

Table 5.2: *Number of Girl Students enjoying Kanyashree Scholarship*

Academic Session	No. of recipients of “Kanyashree”-K2, scholarship (sponsored by Govt. of West Bengal)	Amount (in Rs.)
2013-2014	80	20,00,000
2014-2015	126*	31,50,000

*Data as on 09/07/2015. The enrollment is still in progress.

- ❖ **Merit-cum-means:** Apart from this, students also receive financial assistance from various State Government agencies under merit-cum-means scholarship. The details are as follows.

Table 5.3: *Number of Students enjoying Merit-cum-Means Scholarship*

Academic Session	No. of recipients of Merit-cum-means scholarship (sponsored by State Govt.)	Amount (in Rs.)
2010-2011	139	11,74,625
2011-2012	91	5,45,015
2012-2013	156	15,85,800
2013-2014	21	2,85,000
2014-2015	153	15,19,400

- ❖ **DST Inspire:** Meritorious students from the science departments often receive the coveted Inspire scholarship provided by the Department of Science and Technology. While the following table shows few such recipients, the actual figure could be higher. Each of these students receive Rs.80,000/- per annum.

Table 5.4: *Number of recipients of DST Inspire Scholarship*

Subject	2010-11	2011-12	2012-13	2013-14	2014-15
Mathematics	03		06	01	06 (applied)
Chemistry	04	08	09	00	02
Physics	--	--	--	--	02

- ❖ **Minority Scholarship:** West Bengal Minority Development Finance Corporation (WBMDFC) provides scholarships to students from the Minority community. Many students of this College are recipients of this scholarship.

Table 5.5: Number of students enjoying Minority Scholarship

Academic Session	No. of recipients of Minority scholarship (sponsored by West Bengal Minority Development Finance Corporation)	Amount (in Rs.)
2011-2012	322	20,58,350
2012-2013	292	3,93,900
2013-2014	139	2,93,300
2014-2015	150	7,17,750

Figure 5.2: Recipients of Minority Scholarship (sponsored by WBMDFC)

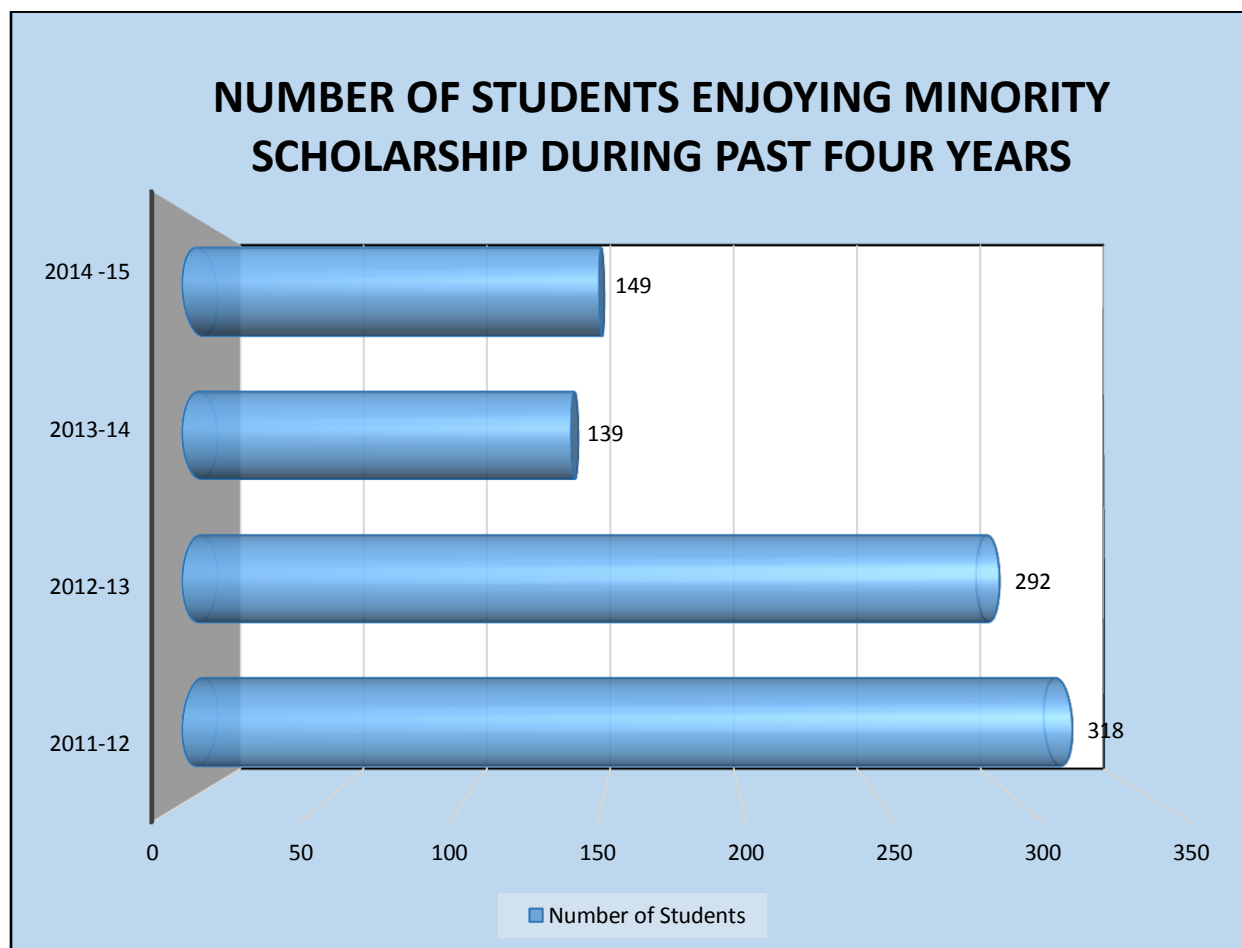
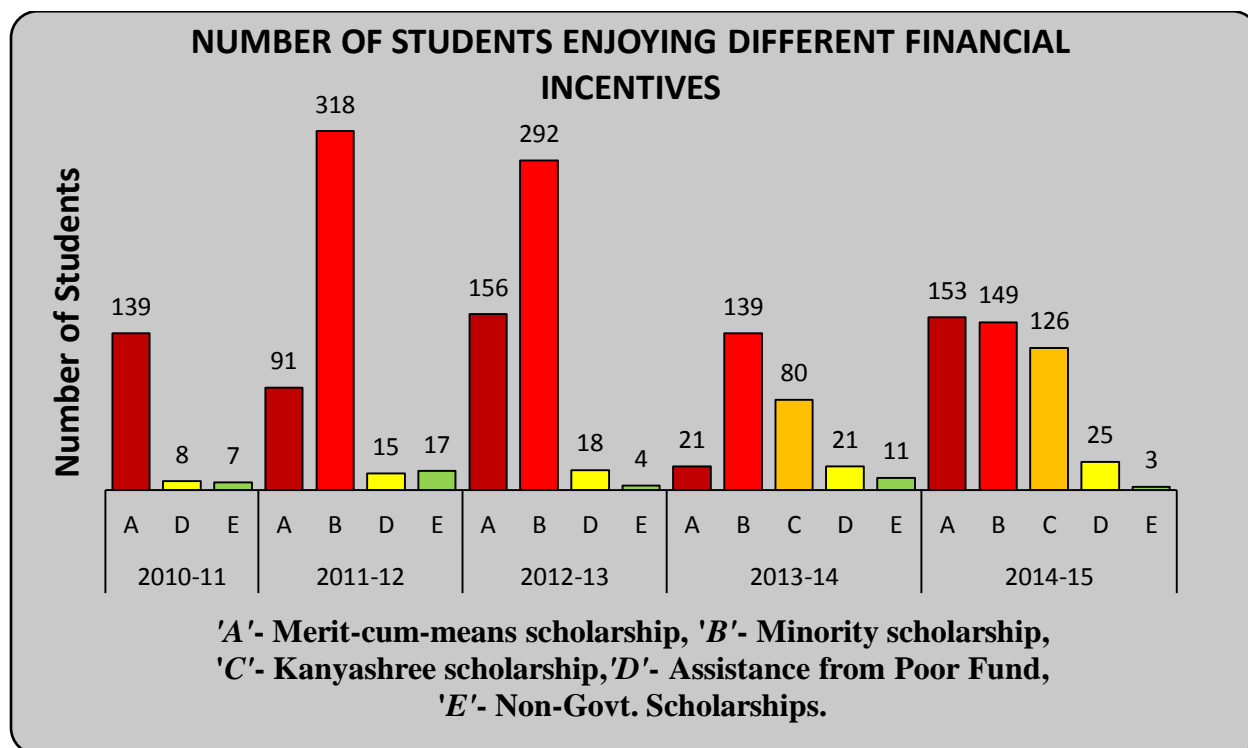
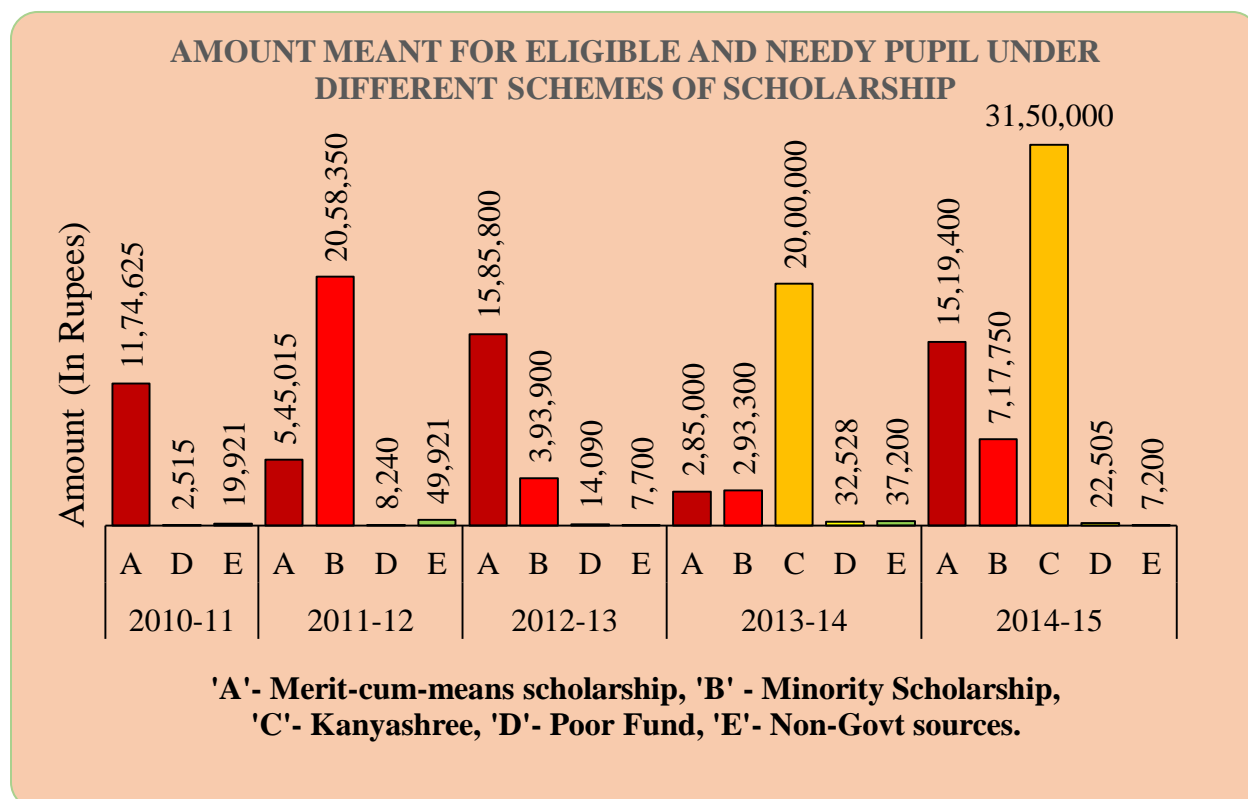


Figure 5.3: Number of Beneficiaries under different Scholarship Schemes*Figure 5.4: Amount disbursed through different Scholarship Schemes*

5.1.4 What are the specific support services/facilities available for**✓ *Students from SC/ST, OBC and economically weaker sections***

- The College follows the extant reservation policies of the Government to earmark seats for SC, ST and OBC students. It also has a SC/ST Cell. The College timely informs the SC/ST students about various facilities provided to them by the Government and other educational institutions thereby motivating them to avail those facilities. The Institution effectively handles the whole process of collection and allocation of fund regarding grants, scholarships, free studentships etc. The Students' Aid Fund is used to extend financial assistance in the form of book grants, examination fees, tuition fees and excursion grants to the economically weaker students.

✓ *Students with physical disabilities*

- As per Govt. norms, 3% seats in each discipline are reserved across different categories for the physically disabled students during admission.
- The college has constructed one ramp each in the Main Building as well as in the Science Building for the differently-abled students, by utilizing funds received from 'UGC Grant under HEPSN Component-2 for Construction of ramp and railing'. Utilization Certificate for the same was submitted on 11.09.2013.
- Classes for them are held on the ground floor of college buildings as far as practicable. They have peers to take care of them, escort them to classes and help them in studies.
- Visually challenged students have a provision for availing the assistance of scribes during tests and university examinations.
- Braille books are available in the library for visually challenged students.
- Higher Education for Persons with Special Needs (HEPSN) committee has been formed which caters to the specific needs of these students.
- The achievements of Sahida Khatun, a physically disabled student of the College, should be mentioned here. She has participated in Paralympics and has received State Award from the Department of Women Development and Social Welfare as 'Role Model' for her outstanding performance in sports.

✓ **Overseas students**

- As no overseas student has been admitted to this college in the recent past, a specialized support system meant for them has not been contemplated. However, they are entitled to avail all the facilities enjoyed by other students.

✓ **Students to participate in various competitions/National and International:**

- The College provides necessary financial and logistical support for students participating in district/state/national/international level competitions.
- The College informs, motivates and guides students to participate in co-curricular events like dance, drama, debating along with different academic events including paper/poster presentations at workshops/seminars organized by various institutions. The Cultural Committee of the Teachers' Council and the Students' Union ensure student participation in cultural programmes throughout the year.
- Students of the College have been successful in various sports events and cultural competitions at the district/state level. Details of select participants are mentioned below.

☞ Subir Biswas of department of Botany, was awarded Bronze medal in the Black Open Kumite 18th Event of 15th KBI National Karate Championship held in December 2014 at Coimbatore, Tamil Nadu. He also achieved 3rd position in Kumite event in the International Karate Championship held at Meydan Theatre, Dubai on 25th April 2014.

☞ Pampa Roy of department of Philosophy, became winner in Badminton Tournament in the West Bengal Inter College District Sports Championship in January 2015.

☞ Soumita Chakraborty of Dept. of Physics, became winner in Badminton Tournament in the West Bengal Inter College District Sports Championship held in January 2015.

☞ Runu Biswas of department of History, became the winner in Badminton Tournament in the West Bengal Inter College District Sports Championship held in January 2015.

☞ The college students organized as well as took active participation in the All Bengal quiz contest MINDQUEST, 2014.



Photograph 5.1: College Badminton Team having won the Inter-College District Championship



Photograph 5.2: Subir Biswas, a recipient of various laurels in Karate Championships

✓ ***Medical assistance to students: health centre, health insurance, etc.***

- Since the college is located at the heart of the city, Govt. Hospital as well as a number of private hospitals are in the close vicinity. The students are entitled for treatment through Students' Health Home and accordingly each student is charged a nominal fee at the time of admission. The College has also arranged for a Medical Unit offering First Aid facility. In case of emergency the facilities available at the nearby hospitals are utilized.
- There are regular programmes organized to generate awareness among the students and teachers about fatal diseases like AIDS, Thalassemia etc. Thalassemia carrier detection for all students has begun in the on-going academic session. Five students and two teachers have been identified as carriers and reports have been sent to the Department of Health and Family Welfare, Government of West Bengal for necessary follow up.

✓ ***Organizing coaching classes for competitive exams***

- 'Entry-in-Services programme', under UGC XIIth Plan for SC/ST/OBC (Non-Creamy Layer) and Minority candidates who have completed Bachelor's Degree/H.S or Madhyamik, is one endeavor which has run successfully in this College. Teachers have imparted professional and life-skills to many aspirants from weaker sections of the society. Till date, nearly 330 career aspirants have enrolled in this programme meant to impart job-oriented coaching and preparation for competitive examinations like School Service Commission, Bank, rail, Public Service Commission, Staff Selection Commission etc. Details of this is mentioned in Table No. 1.3 under Criterion-I.
- The Institution provides updated information about various job opportunities through its Career Counselling Cell. A considerable number of career oriented magazines and periodicals are kept at the Central Library for the benefit of the students.
- Departmental teachers of Science disciplines also groom their students regarding competitive examinations like JAM/GATE etc. Success rate of the students in these examinations speaks volumes about the efforts of the teachers.

✓ ***Skill development (spoken English, computer literacy, etc.,)***

- UG first year students of this College undertake a compulsory computer course, where the College has partnered with the local Centre of National Institute of Electronics &

Information Technology (NIELIT), an autonomous body under the Department of Information Technology, Govt. of India. Provision for such classes were incorporated within the class-routine of the under-graduate first year students, thus ensuring digital empowerment.

- However, a majority of the college students at their entry level are already proficient in basic computer skills, due to incorporation of computer literacy into the school level curriculum. The implementation of curriculum of different science subjects like Physics, Chemistry, Mathematics, Geography, Botany, and Zoology warrant computer programming, use of various software packages, data analysis etc. Software such as QGIS, 21st Century, SPSS, Excel Stat Pro, Geomatica, Bhuban, Google Earth Pro, and Corel Draw are used by Dept. of Geography. Department of Physics uses software such as MATLAB, OCTAVE, LATEX, SIGMA PLOT, ORIGIN, GEANT 4.0, Cascade, MAUD etc. Mathematica, MATLAB software are used by Department of Mathematics.
- As a corollary of the above, provision for high speed broadband internet through both wireless and wired medium has been created in all the Departments, Teachers' Room, Library and College Office under the National Mission on Education through ICT (NMEICT), funded by the Ministry of Human Resource Development, Government of India. The College authority believes that this will popularize the culture of computing.
- The institute plans to start classes of Communicative Spoken English as add on course.

✓ ***Support for “slow learners”.***

- Remedial classes and tutorials are organized for such slow learners.
- Simplified versions of books are recommended to them.
- Bilingual explanation and discussions are undertaken by teachers inside the classroom.
- Revision of topics and practical sessions are practiced.

✓ ***Exposures of students to their institution of higher learning/corporate/business house, etc.***

- Trips to research laboratories and academic institutions of repute enable the students to make informed choices regarding their career and higher studies. The PG Departments

recommend their M.Sc. Students for project work at various research Institutes for exposure of the students towards research.

✓ **Publication of student magazines**

- Students of various Departments publish Wall magazine periodically. For example, the Chemistry department had started publishing wall magazine “Anwesha” since 2009, where various scientific information and thoughts of students are shared. 'Itihasjaan' by Department of History, 'Open window' by Department of English, 'Ayudh' by Department of Bengali and 'Life-o-Live' by Department of Botany also offer platforms to showcase the talents of students.



Photograph 5.3: Wall Magazine published by the students of Dept. of Chemistry.



Photograph 5.4: Wall Magazine published by the students of PG Dept. of Bengali

5.1.5. Describe the efforts made by the institution to facilitate entrepreneurial skills, among the students and the impact of the efforts.

The Career Counselling Cell provides necessary information and prospects of entrepreneurship in various fields to the students. In the Career Fair organized in 2011, network centres were set up in the College by several agencies such as Annex College of Management Studies, MAAC, Maple Educational Services, WEBEL-HCL, Pailan Film and Television Institute, Kingston Educational Institute, Institute of Hardware Technology, IIAS School of Management, EIILM etc. Apart from this, various sessions were organized during last three years to provide the students a scope for industry interactions. The following table reflects such efforts.

Table 5.6: Industry Interaction initiatives undertaken by the Institution

Year	Date	Institute/Organization/Expert	Topic/Area
2013	11.03.13	IFB Agro Industries Ltd.	Career in Fisheries (for students of Zoology)
	11.03.13	EPITOME	Career Orientation
	11.03.13	IIJT	Career Orientation
	11.12.13	NIC Institute of Technology “STAR PROJECT PROGRAMME” Launched by Ministry of Finance, Govt. of India	Skill Development of the Unemployed Youth
	11.12.13	District Employment Exchange, Barasat, North 24 Pgs.	Career Talk
	22.07.13	Digital Network Appliances	Network
	22.07.13	5 Teachers Group	WBCS Examination
2014	26.08.14	Consulting Management Incorporate Pvt. Ltd.	Personality Development
	26.08.14	Pidilite	Profession in fabric related work
	26.08.14	ITM-Group of Institution	Career building
	09.09.14	ICFAI Group	Soft Skill Development and Group Discussion
	09.09.14	The George Telegraph Training Institute. “Barasat Group”	Professional Courses & their Prospects
	19.11.14	Eastern Institute for Integrated Learning in Management (EILM)	Workshop on CV Writing, GD skills, Interview skills, and Career Counselling
	03.12.14		
	10.12.14		
	18.12.14		
2015	16.03.15	BRAINWARE	Engineering & Technological Courses & Vocational Courses
	16.03.15	RTG Animate – Animation Academy	Animation Courses & Prospects



***Photograph 5.4:** Inauguration of Career Fair by the then District Magistrate.
Erstwhile Vice-Chancellor of WBSU and Ex-Principal of the College are also present.*



***Photograph 5.5:** Participants in the Career Fair*

5.1.6. Enumerate the policies and strategies of the institution which promote participation of students in extra-curricular and co-curricular activities such as sports, games, Quiz competitions, debate and discussions, cultural activities, etc.

- ✓ *Additional academic support, flexibility in examinations*
- ✓ *Special dietary requirements, sports uniform and materials*
- ✓ *Any other*

To promote participation of students in extra-curricular and co-curricular activities, the Cultural Committee, Games and Sports Committee, NSS Unit and Students' Union of the College chalk out the policies and strategies.

Relaxation in class attendance for those students who participate in such competitions are permitted by the College authority, so that they can perform in a free mind. Tracksuits, sports uniforms and other sporting gears and equipment are provided to those students who represent the College in various competitions. Students who represent the College in sports and athletic meets are provided balanced diet and the College authority allocates funds for such purpose.

Debates and quiz programmes are organized in the College to encourage the participation by students in co-curricular activities.

5.1.7. Enumerating on the support and guidance provided to the students in preparing for the competitive exams, give details on the number of students appeared and qualified in various competitive exams such as UGC-CSIR-NET, UGC-NET, SLET, GATE/CAT/GRE/ TOFEL/GMAT/Central/State services, Defense, Civil Services, etc.

The details of the successful candidates enrolled under the UGC 'Entry-in-Service' programme has been mentioned in Table no. 1.5 under Criterion-I.

Each year a considerable number of students appear for all-India entrance examinations like JAM/GATE etc. Records of select such candidates are being indicated in the Table No. 5.7. The data is compiled as per verbal and informal feedback received from students and their peers. The actual figures may be higher.

Table 5.7: Record of Students succeeding in various Entrance Examinations

Year of pass out	JAM for all the IIT's	IISC	ISM	IISER	IACS	HU	BHU	NIT	PU	Others
2009	2									2
2010	3									
2011	1		1						1	
2012	5	3	0	1				1		
2013	14		3		1					2
2014	3			3						2
2015	9	0	0	2	0	2	1			

5.1.8. What type of counseling services are made available to the students (academic, personal, career, psycho-social, etc.)

- Academic and personal counselling of the students are undertaken by the Departmental teachers themselves. Remedial and tutorial classes are taken to support the slow learners, while the advanced learners are groomed for their career progression.
- Career Counseling Cell of the College undertakes counselling services to enable the students imbibe soft skills. Gender Cell maintains a proactive environment for gender sensitization among all the stakeholders.
- Plans for setting up a psychological counselling cell are being actively considered. Few eminent counsellors have been approached for the purpose.

5.1.9. Does the institution have a structured mechanism for career guidance and placement of its students? If 'yes', detail on the services provided to help students identify job opportunities and prepare themselves for interview and the percentage of students selected during campus interviews by different employers (list the employers and the programmes).

- Yes, the College has a structured mechanism for career guidance and placement assistance for its students. The Career Counselling Cell of the College organizes industry interactions involving various reputed agencies whereby the students can identify the knowledge gap and the means to bridge the same. Job opportunities are also discussed in such sessions. The details are mentioned in Table No. 5.6 above.
- Through the months of November and December, 2014, counselling sessions were organized for outgoing undergraduate third year students of this College and they were imparted specific technical inputs on CV writing, GD skills, Interview skills etc. by technical persons from EIILM. Around 300 students of this College had been counselled through such sessions.
- UGC Entry-in-services programme is running successfully in this College. Teachers have been imparting professional and life-skills to many aspirants from disadvantaged sections of the society. Till date, nearly 350 career aspirants have enrolled in this programme meant for job-oriented coaching. Many of them have been successful in securing jobs in both Government and private sector. The details of the successful candidates under the UGC 'Entry-in-Service' has been mentioned in Table no. 1.5 under Criterion-I.
- About direct placement of students through campus interview, it is indeed uncommon to see instances where companies have recruited fresh graduates-to-be from general degree colleges on the basis of their qualification only. As the market determined model of economy reserves mainly the non-technical jobs and back-office jobs for students from non-science disciplines of general degree colleges, the placement related functions are getting more and more specialized in nature.
- People deeply associated with the contours of the industry will perhaps be able to reflect more light on the nuances and inner dynamics of placement. So the Career and Counselling Cell of the College proposes to partner with the HR wings of major industry heavyweights and rope in their expertise to increase the employability of our students.

5.1.10. Does the institution have a Students' Grievance Redressal cell? If yes, list (if any) the grievances reported and redressed during the last four years.

The College has an Internal Complaints Committee (ICC), formed as per the Vishakha guidelines. It also has a Grievance Redressal Cell where students can record their grievances.

They can also provide their feedback about the College in the evaluation forms given to them by the IQAC. Names of incumbents in Anti-ragging squad are displayed properly. Complaint boxes have been placed in multiple strategic locations of the College. There is a Gender-Box also to keep intact the anonymity of complainants of harassments.

Students are always encouraged to express their complaints and requirements freely. But no formal grievance/complaint has been reported in the recent past. The reason may be that the students have free access to the Principal and Departmental Heads and are more comfortable to talk with the concerned administrative Heads. Principal always extend patient hearing towards students' complaints and immediately tries to resolve their problems. Departmental Heads also try their best to sort out the problems with the help of the available infrastructure. For instance, students of few Departments expressed their displeasure about the non-availability of their preferred books. The issue has been handled effectively while giving priority to their demand.

5.1.11. What are the institutional provisions for resolving issues pertaining to sexual harassment?

An Internal Complaints Committee (ICC), formed as per the Vishakha guidelines, looks after the issues related to sexual harassment. Complaint boxes have been placed in multiple strategic locations of the College, while focussing on keeping the anonymity of complainants of sexual harassments intact. The ICC often takes drives for gender sensitization among all the stakeholders of the institution. The institution feels a legitimate pride to proclaim that, not a single case had been reported to the committee in the last five years due to strict vigilance exercised by the authority on the college campus.

5.1.12. 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 on these?

Yes, there is an Anti-Ragging Committee in the College, comprising of senior teachers. "UGC Regulations on Curbing the Menace of Ragging in Higher Educational Institutions, 2009" is prominently displayed in the College website. Students are also made aware of the National Anti-Ragging Help Line (UGC Crisis Hotline) having the 24x7 Toll Free Number 1800-180-5522 and the email helpline@antiragging.in. The information packs from the anti-ragging portals are displayed in the College website in both English and vernacular language.

Earlier the anti-ragging affidavit was signed by the students in the specific manual format. Recent changes in the affidavit, whereby it is to be filled up Online through the portal https://antiragging.in/Site/Affidavits_Registration.aspx, warrants a change in modus operandi. The College has plans to link the registration process for this online anti-ragging affidavit portal along with Online Admission portal of the College, thus ensuring concurrence.

It should be mentioned here that no formal complaints related to ragging within the campus has been reported to the College Authority during the last four years or the recent past before. However, the College authority is not complacent on this front. Strict vigil is maintained to prevent and/or punish any untoward incidents.

5.1.13 Enumerate the welfare schemes made available to students by the institution.

By various students welfare schemes, the college tries to provide a healthy environment for students. The schemes are:

- Scholarship, Stipends and Tuition Fee Waiver Schemes as enumerated with details is given earlier (under section number 5.1.2 and 5.1.3).
- All the students of our college are member of ‘Students’ Health Home’. They are entitled to get free medical checkups, treatment and hospitalization (if necessary). The College also has made provision for First Aid facility within the campus, to take care of minor healthcare issues on the campus.
- The physically challenged students are provided with necessary support mechanism as per their requirements, such as wheel chair, braille books in library etc.
- Book bank has been constituted to cater to the needs of the poor but meritorious students.
- Students’ aid fund or the Poor-Fund, is utilized for various requirements of individual students such as examination fees, educational tour expenses etc. The Principal of the College also uses his discretionary power to waive the admission fee of needy students.
- Provision for a cheap-store has been made within the College campus, from where the students can buy stationery items and avail the reprography, printing and internet browsing services at a subsidized rate.



Photograph 5.6: Students availing the facilities of the Cheap Store

5.1.14. Does the institution have a registered Alumni Association? If ‘yes’, what are its activities and major contributions for institutional, academic and infrastructure development?

Yes, the institution has an Alumni association. The IQAC has one member from among the Alumni of the College and thereby they contribute to the academic and infrastructural development of the College. They provide regular suggestions on community outreach programmes, sustenance of quality policy and maintaining the legacy of the institution.

5.2. Student Progression

5.2.1. Provide the percentage of students progressing to higher education or employment (for the last four batches) highlight the trends observed.

Student progression (in %)		Arts	Science
UG to PG		50-60%	> 80%
PG to M. Phil.		20%	5%
PG to Ph.D.		8-10%	30%
Employed	Campus selection	--	--
	Other than campus recruitment	8-10%	20-25%

The above data has been compiled as per verbal feedback and informal information obtained from the students and represents approximate figures. It has been observed that a lot of students opt for PG courses in their pursuance of higher studies. However, not all of them are able to find suitable placements in time. The institution sees this as a challenge.

5.2.2. Provide details of the programme wise pass percentage and completion rate for the last four years (cohort wise/batch wise as stipulated by the university)? Furnish programme-wise details in comparison with that of the previous performance of the same institution and that of the Colleges of the affiliating university within the city/district.

Batch wise programme completion rate for different UG subjects are being indicated in Table No. 5.8. The performance of the students in Part-III examination of WBSU for the last four years are being mentioned subsequently in Table No. 5.9.

A glance at table No. 5.8 will reveal that number of students appearing in Part-I examinations are actually higher than the number of newly registered students for the corresponding year. This phenomenon is explained by the fact that some students take readmission in first year, thereby pushing up the number of applicants for Part-I examination. It should be noted further that the University rules allow a student to retain his/her UG registration for several years. As a result, a section of students complete the 3-year UG programme in four or more years.

Table 5.8: Batch-wise Academic progression of Students

Subject/s or Subject Code	Newly Registered Students 2010	Part-I Appeared 2011	Part-II Appeared 2012	Part-III Appeared 2013	Newly Registered Students 2011	Part-I Appeared 2012	Part-II Appeared 2013	Part-III Appeared 2014	Newly Registered Students 2012	Part-I Appeared 2013	Part-II Appeared 2014	Part-III Appeared 2015
All B.A. Honours	310	350	269	228	327	312	278	269	360	347	309	294
BOTA	27	29	11	10	28	17	21	20	34	29	17	14
GEOA	39	50	37	31	42	42	38	34	47	46	40	43
CEMA	28	25	21	23	33	30	14	13	28	20	31	29
MTMA	36	45	33	34	50	46	38	39	47	41	42	41
PHSA	29	24	23	19	37	28	28	19	37	26	27	28
ZOOA	27	27	20	13	35	27	26	27	39	25	19	18
EOCA	06	06	01	01	17	14	05	05	06	06	09	09
B.A. General	224	313	219	222	234	218	205	217	309	287	264	253
B.Sc. General	53	35	40	38	54	33	26	28	63	41	46	50
Casual Candidate	--	192	116	52	--	153	139	47	--	181	112	56
Total	779	1096	790	671	857	920	818	671	970	1049	916	835

Table 5.9: Year-wise record of Part-III examination results for different subjects

UG Programme	2011	2012	2013	2014
Bengali	Candidates:48	Candidates:50	Candidates:52	Candidates:60
	1 st Class M-2,F-0	1 st Class M-0,F-1	1 st Class M-0,F-5	1 st Class M-0,F-5
	2 nd Class-42	2 nd Class-47	2 nd Class-46	2 nd Class-49
	General/PNC-04	General/PNC-02	General/PNC-01	General/PNC-06
English	Candidates:40	Candidates:47	Candidates:46	Candidates:54
	1 st Class M-2,F-1	1 st Class M-1,F-0	1 st Class M-2,F-2	1 st Class M-0,F-2
	2 nd Class-35	2 nd Class-42	2 nd Class-36	2 nd Class-48
	General/PNC -02	General/PNC-04	General/PNC -06	General/PNC-04
History	Candidates:47	Candidates:41	Candidates:43	Candidates:49
	1 st Class M-1,F-0	1 st Class M-0,F-0	1 st Class M-0,F-0	1 st Class M-0,F-0
	2 nd Class-45	2 nd Class-38	2 nd Class-36	2 nd Class-43
	General/PNC-01	General/PNC-03	General/PNC-07	General/PNC-06
Philosophy	Candidates:35	Candidates:40	Candidates:42	Candidates:33
	1 st Class M-0,F-12	1 st Class M-3,F-5	1 st Class M-3,F-1	1 st Class M-0,F-2
	2 nd Class-22	2 nd Class-30	2 nd Class-36	2 nd Class-29
	General/PNC-01	General/PNC-02	General/PNC-02	General/PNC-02
Political Science	Candidates:38	Candidates:39	Candidates:32	Candidates:41
	1 st Class M-0,F-1	1 st Class M-0,F-0	1 st Class M-0,F-1	1 st Class M-1,F-2
	2 nd Class-32	2 nd Class-35	2 nd Class-26	2 nd Class-35
	General/PNC-05	General/PNC-04	General/PNC-05	General/PNC-03
Sanskrit	Candidates:22	Candidates:31	Candidates:28	Candidates:35
	1 st Class M-1,F-3	1 st Class M-1,F-4	1 st Class M-0,F-6	1 st Class M-2,F-2
	2 nd Class-17	2 nd Class-24	2 nd Class-21	2 nd Class-29
	General/PNC-01	General/PNC-02	General/PNC-01	General/PNC-02
Botany	Candidates:16	Candidates:19	Candidates:10	Candidates:21
	1 st Class M-1,F-3	1 st Class M-0,F-3	1 st Class M-0,F-0	1 st Class M-1,F-9
	2 nd Class-12	2 nd Class-14	2 nd Class-9	2 nd Class-10
	General/PNC-0	General/PNC-02	General/PNC-01	General/PNC-01
Chemistry	Candidates:16	Candidates:15	Candidates:24	Candidates:13
	1 st Class M-1,F-3	1 st Class M-6,F-3	1 st Class M-10,F-2	1 st Class M-8,F-3
	2 nd Class-12	2 nd Class-5	2 nd Class-9	2 nd Class-1
	General/PNC-0	General/PNC-01	General/PNC-03	General/PNC-01

Geography	Candidates:37	Candidates:35	Candidates:31	Candidates:34
	1 st Class M-6,F-1	1 st Class M-3,F-0	1 st Class M-1,F-0	1 st Class M-2,F-5
	2 nd Class-29	2 nd Class-30	2 nd Class-27	2 nd Class-24
	General/PNC-1	General/PNC-02	General/PNC-03	General/PNC-03
Economics	Candidates:07	Candidates:7	Candidates:01	Candidates:05
	1 st Class M-0,F-0	1 st Class M-0,F-0	1 st Class M-0,F-0	1 st Class M-0,F-0
	2 nd Class-05	2 nd Class-4	2 nd Class-1	2 nd Class-03
	General/PNC-02	General/PNC-03	General/PNC-0	General/PNC-02
Mathematics	Candidates:14	Candidates:21	Candidates:38	Candidates:39
	1 st Class M-7,F-2	1 st Class M-8,F-4	1 st Class M-15,F-7	1 st Class M-5,F-9
	2 nd Class-04	2 nd Class-08	2 nd Class-14	2 nd Class-24
	General/PNC-1	General/PNC-01	General/PNC-02	General/PNC-02
Physics	Candidates:14	Candidates:13	Candidates:19	Candidates:19
	1 st Class M-6,F-3	1 st Class M-7,F-2	1 st Class M-0,F-3	1 st Class M-7,F-2
	2 nd Class-5	2 nd Class-04	2 nd Class-14	2 nd Class-10
	General/PNC-0	General/PNC-0	General/PNC-02	General/PNC-0
Zoology	Candidates:19	Candidates:15	Candidates:20	Candidates:27
	1 st Class M-3,F-6	1 st Class M-1,F-2	1 st Class M-2,F-4	1 st Class M-1,F-8
	2 nd Class-10	2 nd Class-10	2 nd Class-12	2 nd Class-17
	General/PNC-0	General/PNC-02	General/PNC-02	General/PNC-01
B.A General	Candidates: 223	Candidates: 241	Candidates: 250	Candidates:198
	1 st Class-0	1 st Class-2.48%	1 st Class-0	1 st Class-2.52%
	2 nd Class-13.4%	2 nd Class-79.6%	2 nd Class-7.20%	2 nd Class-88.89%
	P division-83.4%	P Division-	P Division-74%	P Division-
B.Sc. General	Passed- 96.86%	Passed-82.15%	Passed-81.2%	Passed-91.41%
	Candidates:34	Candidates:89	Candidates:19	Candidates:42
	1 st Class-5.88%	1 st Class-8.98%	1 st Class-5.2%	1 st Class-11.9%
	2 nd Class-20.58%	2 nd Class-82%	2 nd Class-57.80%	2 nd Class-78.57%
B.Sc. General	P division-29.4%	P Division-	P Division-	P Division-
	Passed- 55.88%	Passed-91.01%	Passed-63%	Passed-90.47%

5.2.3 How does the institution facilitate student progression to higher level of education and/or towards employment?

The institution facilitates student progression to higher studies and/or employment by imparting various professional and soft skills to them, providing proper exposure on career opportunities,

grooming and motivating the students for responsible positions etc. In order to improve their academic and professional efficiency the following measures are given priority:

- ☞ Regular class tests.
- ☞ Continuous evaluation of the performance of the students through student seminars, group discussions, surprise tests etc.
- ☞ Hands on experience with computers and equipment.
- ☞ Experience with field studies, educational tours etc.
- ☞ Continuous evaluation of practical exercises in laboratory based subjects.
- ☞ Remedial classes and peer learning to help the slow learners cope with their studies.

5.2.4. Enumerate the special support provided to students who are at risk of failure and drop out?

It has been observed that certain major factors compel the students to drop or discontinue studies.

- i. Financial strain, whereby students are unable to meet the expenses for higher education.
- ii. Playing the role of a bread-earner, where students work to support their family.
- iii. On few occasions, marriage and certain typical socio-economic phenomenon prevent some girl students from continuing their studies.
- iv. Occasionally, failure in university examinations prompts some less privileged students to discontinue studies.

The institution tries to address all of these factors in a proactive manner.

- ✓ Financial support and incentives are provided to all those who are financially weak in several ways. The detailed list of all available scholarships and incentives is already provided in 5.1.2 and 5.1.3 of this Criterion.
- ✓ The Institution also provides valuable support to those who are unable to cope with the pressure of the curriculum by arrangement of remedial and tutorial classes, counseling, provision of study materials and books through book-bank etc.
- ✓ The College authority undertakes a humane approach in dealing with those students who are forced to work on part-time basis. Teachers identify such students and interact with them continuously to address their academic needs.

- ✓ On certain occasions, teachers visit the homes of students to motivate them and their family members for continuation of studies. Such issues are raised in the Parent-Teacher meeting as well.
- ✓ However, despite all such efforts, a few students do discontinue their studies due to various reasons. The institution tries to bring them under the distant learning mode of education through the NSOU Study Center of this college.
- ✓ It may be mentioned here that the true dropout rate cannot be estimated easily. The growing tendency of attrition among students of science streams towards professional courses has taken its toll on general degree course education.

5.3. Student Participation and Activities

5.3.1. List the range of sports, games, cultural and other extra-curricular activities available to students. Provide details of participation and program calendar.

There is ample opportunity for the students to participate in various extra-curricular activities and various indoor and outdoor games. Drama, music, recitation, elocution, quiz competition etc. are organized every year. Competitions in different games and sports events like Annual Sports and Athletic Meet, volleyball, carom, table tennis, badminton etc. are organized every year. Students of our college regularly participate in district level Inter-College Sports meet, international Karate Championship, KBI National Karate Championships and various other competitions. Multi-gym with well-equipped facility is available for the students in the college. Beside this, the college jointly shares and manages a playground with the adjacent Govt. School. Also by virtue of being a Govt. Institution the College can avail the special sports infrastructure facilities of Vidyasagar Krirangan (Barasat Stadium) for carrying out various sports activities.

5.3.2. Furnish the details of major student achievements in co-curricular, extracurricular and cultural activities at different levels: University/State/Zonal/ National/ International, etc. for the previous four years.

Details of such achievements are being mentioned in the following table.

Table 5.10: Achievements of Students in various competitions

Year	Team/ Individual (Men/ Women)	Events	Name of the competition	Name of the sports person	Remarks
2011	Men	Badminton	Inter Govt. College Sports Competitions	Barasat Govt. College Team	Runner Up
2010	Men	Badminton	Inter Govt. College Sports Competitions	Barasat Govt. College Team	Winner
2014	Individual (Men)	International Karate Championship (Kumite)	Budokan Cup-2014	Subir Biswas	3 rd Place
2013-14	Individual (Men)	13 th KBI National Karate Championship	Karate Budokan Federation of India	Subir Biswas	Bronze medalist
2013	Individual (Men)	15 th All Bengal Open Karate Championship	Karate (Kata Championship)	Subir Biswas	Bronze medalist
2012-13	Team(Men)	14 th KBI National Karate Championship (Kumite)	Karate Budokan Federation of India	Subir Biswas	Bronze medalist
2011	Individual (Men)	All West Bengal Invitation Karate Championship (Kumite)	Karate	Subir Biswas	First prize

- ✓ **Pampa Roy**, 3rd year student department of Philosophy, became winner of Badminton tournament in the West Bengal Inter College District Sports Championship in January 2015.
- ✓ **Soumita Chakraborty**, 3rd year student of department of Physics, became winner of Badminton tournament in the West Bengal Inter College District Sports Championship held in January 2015.
- ✓ **Runu Biswas**, 1st year student of department of History, became the winner of Badminton tournament in the West Bengal Inter College District Sports Championship held in January, 2015.
- ✓ The college students organized as well as took active participation in the All Bengal quiz contest MINDQUEST, 2014.

5.3.3. How does the college seek and use data and feedback from its graduates and employers, to improve the performance and quality of the institutional provisions?

Formal and informal feedback from various stakeholders such as the students, teachers, parents and other peers are sought to improve the performance of the institution on academic and extra-curricular aspects. Feedback on implementation of course curriculum, examination pattern, infrastructural facilities available at the College, class performance of teachers etc. are analyzed by the IQAC and useful suggestions are assimilated and are put forward to the management for appropriation of the same.

Soon the College will introduce options for collecting feedbacks through the College website.

5.3.4. How does the college involve and encourage students to publish materials like catalogues, wall magazines, college magazine, and other material? List the publications/materials brought out by the students during the previous four academic sessions.

Students of various Departments of the College publish their Wall Magazines periodically. These are displayed properly for nurturing the culture of extra-curricular activities.

Examples of regular wall magazines published by several Departments are as follows:

- 'Itihasjaan' by Department of History,
- 'Open window' by Department of English,
- 'Ayudh' by Department of Bengali
- 'Life-o-Live' by Department of Botany.
- "Anwasha" by Department of Chemistry.

5.3.5. Does the college has a Student Council or any similar body? Give details on its selection, constitution, activities and funding.

Yes, the college has a democratically elected Student Council named as "Barasat Government College Students' Union". All regular and bona-fide students who pay tuition fees and Students' Union fees are members of this Students' Union by default. The Union Council is a body of class representatives, with the ratio of representation being 1:20 students. They are elected by the students of the college every year. The Union Council members in turn elect the office bearers of

the Cabinet among themselves. The tenure of the elected body is one year. The present composition of the Students' Union Cabinet of the college is given below:

Table 5.11: Composition of the Students' Union Cabinet for 2014-14 session.

PRESIDENT (Ex-officio): Dr. Subhasis Dutta		Vice-President: Prof. Md. Abdur Rafik Sardar	
Pro-Vice-President	Sri Santu Sardar		
General Secretary	Sri Debashis Das	Assistant General Secretary	Sri Goutam Baraik
Cultural Secretary	Sri Prodyut Roy	Assistant Secretaries	Sri Subhradip Mitra Smt. Sumyadha Das
Athletic Secretary	Sri Somnath Chowdhury	Assistant Secretaries	Sri Ramen Mondal Sri Arpan Mukherjee
Magazine Secretary	Sri Sayed Moazeem Hossain	Assistant Secretaries	Sri Rana Das Sri Biswarup Ghosh
Social Service Secretary	Sri Bivash Mondal	Assistant Secretaries	Sri Biswajit Ghosh Smt. Eva Chandra
Medical Secretary	Sri Sayan Tanti	Assistant Secretaries	Smt. Arpita Roy Smt. Indrani Das
Boys' Common Room Secretary	Sri Kaushik Saha	Assistant Secretaries	Sri Ritam Paul Sri Mrinmoy Ghosh
Girls' Common Room Secretary	Smt. Dona Saha	Assistant Secretaries	Smt. Mousumi Chatterjee Smt. Arsina Parvin
Entertainment Secretary	Smt. Amrita Biswas	Assistant Secretaries	Smt. Ashmira Khatun Smt. Moumi Saha
Library Secretary	Sk. Ashadul Rahaman	Assistant Secretaries	Sri Biki Mukherjee Smt. Priyanka Biswas
Canteen Secretary	Sri Ankit Mukherjee	Assistant Secretaries	Sri Gopal Paul Sri Suvajit Dey

Election process is generally conducted through the months of January and February of each year. The election schedule is prepared in consultation with the district administration. An Election Committee comprising the faculty members is constituted to oversee the election process. The Principal of the College is also the ex-officio President of the Students' Union.

The Students' Union is a highly active body looking after the welfare of the general students. The members of the Union always cooperate with the college authority to maintain the academic atmosphere of the college. The members also extend their full cooperation during the process of

admission, different games and sports events, Annual Sports and Athletic Meet, blood donation camp and other extracurricular activities. The union organizes various cultural programmes like Fresher's Welcome, Annual social function, Saraswati Puja etc.

A part of the fees collected from the students at the time of their admission, earmarked as Union Fees, is utilized by the Students' Union in running their various activities during their tenure.



Photograph 5.7: Designated room for the Students' Union of the College

5.3.6. Give details of various academic and administrative bodies that have student representatives on them.

Various academic and administrative bodies of the College have student representation to facilitate smooth integration of policy and its implementation. They are as follows:

Governing Body: Governing Body is the highest Administrative Body of the College. The GB takes decisions about developmental proposal. The president of Governing Body is the District Magistrate of North 24 Parganas. The General Secretary of the Students' Union is a member.



Photograph 5.8: Cultural Performance by Visiting International Students



Photograph 5.9: Students participating in rally on occasion of Kanyashree Diwas

IQAC: This is an important body of the college entrusted with the responsibility of quality control and development planning. IQAC includes two students of PG departments.

Cultural Committee: The Cultural Committee keeps in constant touch with the Cultural Secretary, Students' Union to mobilize the students in conducting the cultural programme.

College games and sports Committee: This committee also maintains steady liaison with the Students' Union to mobilize the students in conducting various games and sports activities.

The College Development Committee: This is a General Committee outside the purview of the Teachers' Council, and has representation from all the direct stakeholders of the College. Along with teachers and non-teaching staff, the students also are active part of this committee entrusted to look after the overall development of the College.

Equal Opportunity cell: The Cell emphasises on creating a condition of equal access in the midst of diversity. As a measure of promoting inclusion and diversity at the institutional level a number of affirmative action programmes are undertaken by this College. The students' union has a role to play here in assisting to identify the broad thrust areas.

NSS Committee: The student members, who are also NSS Volunteers, play active part and motivate others in the different activities of the NSS Unit of Barasat Govt. College.

5.3.7. How does the institution network and collaborates with the Alumni and former faculty of the Institution.

The Principal is the chief Patron of the Alumni Association. Meetings are held in the college and students and staff of the College collaborate with the Alumni Association in organizing outreach programmes. In this digital age of social networking, the College has plans to use social media to integrate the Alumni. Soon the options for registration of Alumni members through the College website and integration of the portal with Facebook will be made available.

Former faculties of the College always keep close contacts through formal and informal networks. The College tries to utilize their expertise in various fields.

Any other relevant information regarding Student Support and Progression which the college would like to include.

The College strives to impart quality based higher education so that students can acquire knowledge and development skills to face the national and global challenges. The Principal and all the staff members strive to promote a peaceful academic environment of harmony and cooperation essential in the process of concentration and learning.

CRITERION - VI

GOVERNANCE, LEADERSHIP AND MANAGEMENT

CRITERION VI: GOVERNANCE, LEADERSHIP AND MANAGEMENT

6.1 Institutional Vision and Leadership

6.1.1 State the vision and mission of the Institution and enumerate on how the mission statement defines the institution's distinctive characteristics in terms of addressing the needs of the society, the students it seeks to serve, institution's traditions and value orientations, vision for the future, etc.?

VISION OF THE INSTITUTION

To inculcate an urge for knowledge and enlightenment in the younger generation so that they can be ready to participate in the Nation's development, adding to its welfare, progress, security and environmental protection.

MISSION OF THE INSTITUTION

- i. To follow up its glorious tradition of excellent academic performances, inclusive growth as well as quality assurances with equal opportunities.
- ii. To increase female participation in the field of higher education as a part of the legacy of this town.
- iii. To provide access to higher education to a greater number of students particularly from the weaker sections, irrespective of religion, caste or creed through formal and non-formal (distant learning) mode without compromising with quality.
- iv. To impart quality based higher education with a view to acquiring knowledge and developing skills among the students to generate new vistas of resources for the country.
- v. To develop knowledge of liberal arts, basic sciences, biological sciences, social sciences, physical education and other multi-disciplinary courses of modern relevance.
- vi. To develop a responsible, sensitive youth force who have social commitments for the greater section of society at large.
- vii. To lay emphasis on value education so that the students would become worthy citizens with noble ideals of serving their country.
- viii. To promote analytical and empirical research and micro-studies in basic and social sciences, and humanities with special emphasis on the needs and problems of the allied areas.
- ix. To ensure accountability to the society and create accountability at all levels.

- x. To build up a general environmental awareness and a community feeling for the locality at the micro level along with the current ecological consciousness on the global issues at the macro level.

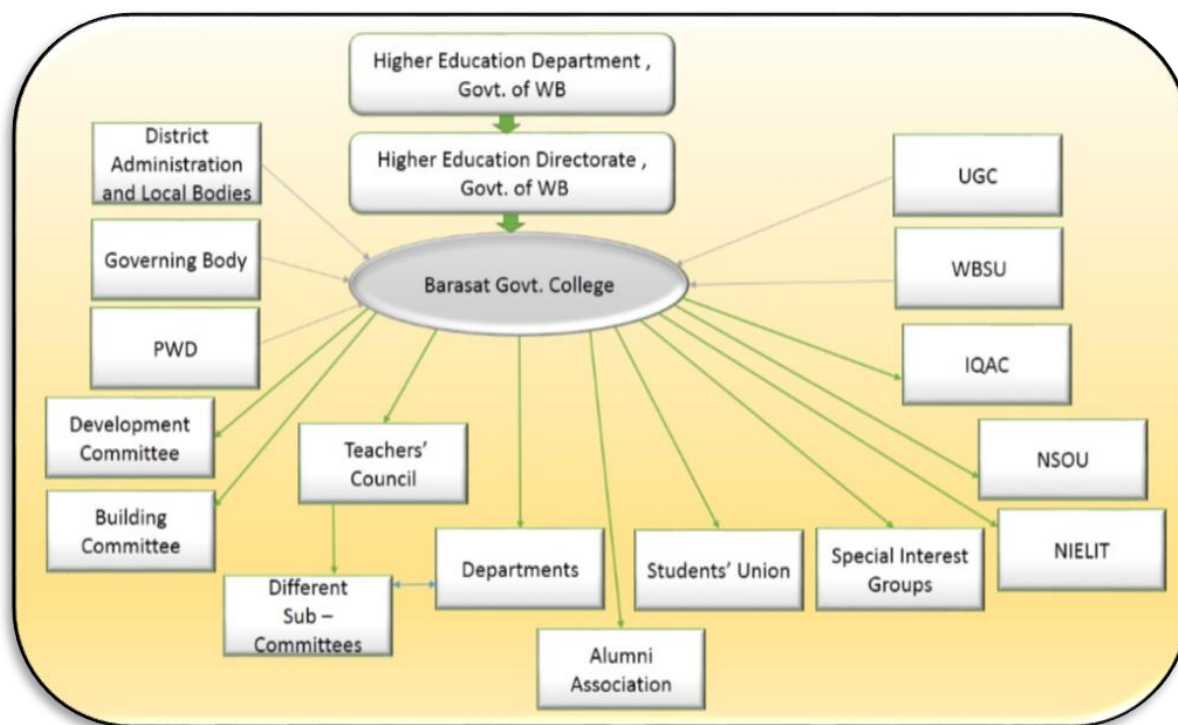
Thus the mission statement of the College promotes the ideal of inclusive education as the very basic programme and commits to the needs of larger society. It seeks to promote and serve even students from the bottom and marginal level of the society by instilling a spirit of confidence and self-reliance among them which comes from knowledge through learning.

6.1.2 What is the role of top management, Principal and Faculty in design and implementation of its quality policy and plans?

- As a Government College this institution is administered directly by the Higher Education Department and the Education Directorate, Government of West Bengal. They regulate year-wise budget allocation under the Plan and Non-plan heads for the College as well as enjoys full authority in all appointments, confirmation, career advancement, and transfer of Principal, Teachers and Non-teaching staff. Even they decide on the Principal's and teacher's participation in any Educational programme and foreign tour.
- As Head of the Institution the Principal provides leadership in creating a positive working environment and implements the government policies. He is the key element in developing the organizational structure, formulating and implementing the strategy of development through the college development committee and Governing body. He shoulders the responsibility to ensure the operation of an efficient fiscal and human resource management system which also promotes the best practices of the institution. In all these tasks, the Teachers' Council and the Heads of the departments assist and advise the Principal. He gives permission for undergoing PhD/M.Phil. Courses, forward applications for UGC Major and Minor research project or other research projects through college research committee.
- For the internal administration, the Governing Body is the top management group whose President is the District Magistrate of North 24 Parganas. It endorses the institution's development activities, determines its future direction and implements policies within the framework of Government directives. The Principal forwards resolutions adopted by the Governing body for final approval of the Higher Education Department.
- The Internal Quality Assessment Cell (IQAC) keeps a regular tab on the academic

aspects and activities of the College. It devises and formulates plans relating to future academic growth and sustenance of quality after feedback analysis. The Principal, faculty, non-teaching staff of the College, students' union and other stakeholders are fully involved in maintaining a strong academic environment.

- Long-term policies are often sub-divided into short term targets by the management and the optimal utilization of human resources are achieved to meet those academic and administrative targets. The Teachers' Council of the college is a platform to discuss all academic and related developmental issues. The Principal implements the resolutions adopted by the council. In the cases of policy making matters, he recommends and forwards resolutions adopted by the Heads of the Departments and Teachers' Council for approval of the Higher Education Department. Once approved, the necessary works are executed with the assistance of all concerned. There is a monitoring and feedback system to ensure that the stated objectives are met efficiently on time.
- The leadership of the Institution shows strong commitment to provide logistical and technical support to the teachers and non-teaching staff for improving their efficiency. The postgraduate departments (Bengali, Physics, Botany and Zoology) enjoy academic autonomy. The academic aspects of every postgraduate department is scrutinized by a PG Board of Studies consisting of all faculty members and five external experts. The PG Board of Studies regulates all the academic policies regarding postgraduate studies of the respective departments which reinforce a decentralised governance system.
- Aspects related to discipline in the institution are looked after by Disciplinary Committee, comprising the senior teachers of the College. The teachers and students together contribute to the maintenance of discipline within the campus.
- The non-teaching staff, on the other hand, also plays a vital role for the improvement of the College administration. They frequently take the help of the faculties in the areas of understanding many office matters and implementation of office management software. The authority organizes special training sessions whenever the opportunity arises, to make them comfortable in handling computer and software related to running the office.
- The following structure shows the major components with whom the Principal keeps close contact and operates the College administration smoothly and effectively:



6.1.3 What is the involvement of the leadership in ensuring the following?

- *The policy statements and action plans for fulfillment of the stated mission-*

Propelled by the Institutional mission, the Principal of the College maintains an effective liaison with the Government, Governing Body, the IQAC and the Teachers' Council in formulating the policy statements and action plans. The Principal takes care to look after the interest of the stakeholders engaged to run the institution in a very smooth and proper manner. Teachers perform their duties of taking classes, giving guidance and advice to the students both inside and outside the classroom and laboratories. Being a Government College, the institution is totally guided by the policies of the Government of West Bengal and the Principal ensures an active involvement of the concerned authorities in the formulation of institutional policies.

- *Formulation of action plans for all operations and incorporation of the same into the institutional strategic plan-*

As per specific directives and guidelines of Government or the UGC, the IQAC of the College formulates the broad principles and plans for certain action areas. As a corollary the Teachers' Council in their general meeting discusses the action plans for the future. To implement those plans different academic and administrative committees and sub-committees are constituted. As per requirements non-teaching staff and student

representatives are also incorporated in these committees. The strategies are then implemented at ground level with active cooperation of all the stakeholders. Feedback mechanisms are also operated to secure the viewpoints of the end-users.

- *Interaction with stake holders-*

Interaction with stake holders is a continuous process which involves dynamic exchanges between the parents and the teachers at the departmental level. The Principal also mediates at such meetings as and when necessary. Keeping the parents updated about their wards' progress is an essential component of the teaching learning process and this is taken care of primarily by the departments. The parents are also invited to visit the key academic facilities offered by institution and their feedback are sought regarding College infrastructure.

Other stakeholders to the institution are also co-opted while strategizing the growth trajectory of the institution. The non-teaching staff members are always encouraged to voice their opinion on crucial operational matters. Besides this, their representation in management level bodies like IQAC and Governing Body have also been ensured.

The Teachers' Council is an important forum where issues related to academic matters and overall development of the College in general are taken up. The management seeks the confidence of the Teachers' Council in implementing certain key targets.

Members of the Governing Body and the Alumni Association also make it a point to visit the college regularly whereby they directly interact with the Principal and teachers. Officials of the affiliating university are kept in loop about the academic progress and needs of the College.

Most importantly, the Principal and faculty members regularly interact with the students who are the most important stakeholders in this academic process.

The IQAC seeks their feedback and necessary steps are taken to address their concerns.

- *Proper support for policy and planning through need analysis, research inputs and consultations with the stake holders-*

As per reports of the student feedback mechanisms, the faculty members develop their academic planning within the broad parameters of the syllabus and curriculum. The College authority conducts statistical surveys on the physical and human resource utilization after formally collecting feedback from various stakeholders such as parents and students. These

help the top management in planning the policies more effectively. Specific needs of students, which are often allied to a geographic location or socio-economic setting, are thus identified. Prioritizing on those inputs, with the help of an escalation matrix, creates an environment suitable for policy implementation. The College understands the need for addressing newer challenges, such as profit-orientation in educational system, demand for utility based education, incorporation of new technology in the methodology etc.

▪ *Reinforcing the culture of excellence-*

Since its inception in 1950, this institution has been known as a centre having an excellent academic environment. Many distinguished personalities were either teachers or students of this college. Currently the IQAC plays a major role to reinforce the culture of excellence and under its leadership the faculty members are always encouraged to upgrade themselves and to spread the new knowledge among their students. Many teachers are conducting research by associating with agencies like UGC, CSIR, DST, WBDST, ICSSR, ICMR, ISI, IICB, SINP, Bose Institute, JU, CU and CSSS and have been awarded major and minor research projects and are being funded accordingly. They are publishing articles in national and international journals. Many teachers are actively collaborating with reputed institutions within and outside the state of West Bengal for research related needs and their students are being direct beneficiaries as a result.

The Environment Protection and Nature Cell of the college aims to encourage all teaching, non-teaching members and students of the college to be aware and participate in activities connected with the conservation of nature and about the ill effects of the destruction of natural resources. Protection of environment and service towards the animal world is the crying need of the hour. Our college pledges to act towards this goal. Community orientation through NSS activities is a major step to instil a spirit of community service also stimulates a culture of excellence. To promote a culture of independent thinking and spirit of learning, students' seminars are organized by all Departments and by the PG departments in particular.

The College has also been very successful in bringing out multiple volumes of its peer-reviewed academic journal 'Aureole' (ISSN 0976-9625), whereby the research orientation of teachers have been promoted greatly. On the other hand, the College also inculcates a community orientation among the students through their participation in various programmes.

Table 6.1: Year-wise publication of peer-reviewed articles in Aureole (ISSN 0976–9625)

Year	Number of Volumes	No. of Articles
2009	Volume-1	08
2010	Volume-1	07
2011	Volume-1	08
	Volume-2	12
2013	Volume-1	15
2014	Volume-1	19
	Volume-2	15

▪ *Champion organizational change-*

Every institution hopes to nurture its students in the best possible way, so that they can get established in their career and in life. The institution remains committed to the cause of improving organizational change in an efficient and value-laden manner. In this regard, the Principal keeps in mind the recommendations of the Governing Body and the Teachers' Council whenever possible. The Career Counselling Cell of the College bridges the gap between the students seeking job and the industry seeking specific skills. Through its activities the Cell tries to inculcate a spirit of professionalism among the students. The general computer literacy programme among the students is carried out with the help of the centre of NIELIT.

The art of building consensus is a valuable life-skill and the students get a hands-on experience for such skills by managing their own affairs through a democratic Students' Union. Election for such students' body is conducted every year by ensuring equitable representation from among all section of students of both Science and Humanities disciplines of UG section.

In order to promote higher education among all sections of the populace, there is a running Centre of Netaji Subhas Open University (NSOU) within the campus of the College, where the number of students is gradually increasing over the years indicating the importance of off-campus enrollment.

6.1.4 What are the procedures adopted by the institution to monitor and evaluate policies and plans of the institution for effective implementation and improvement from time to time?

As per specific directives and guidelines of the State Government or the UGC, the IQAC of the College formulates the broad principles and plans for certain action areas. As a corollary the Teachers' Council in their general meeting discusses the action plans for the future and sets out certain targets. Most of the academic targets are set with a specific deadline. If any lacuna is found in one session it is reported to the IQAC and necessary structural modifications are effected.

To suitably address different problems that crop up in the way of achieving the targets, the Principal regularly meets with the different stakeholders of the organizational structure and thereby policies are reviewed and revised, if necessary. Also the Internal Quality Assessment Cell regularly monitors and keeps a vigil on the progress of the assigned jobs of all the academic and administrative sub-committees and proposes necessary suggestions to improve the institutional performance.

6.1.5 Give details of the academic leadership provided to the faculty by the top management?

Proposals for uplift of academic status of the College are carefully prepared and presented at the national forum. The Principal and the IQAC guide the faculties to organize seminars, symposium, conferences, workshops, excursions, as well as to represent the college in academic events organized by other institutions in India. Board of Studies of different PG departments set the academic strategies and plans for effective implementation of funds to meet them. The junior teachers are groomed by the seniors to create a spirit of bonhomie. The faculty members are also encouraged to conduct research projects funded by UGC, DST, ICSSR, ICMR etc. and to participate in orientation and refresher courses.

6.1.6 How does the college groom leadership at various levels?

Teachers of this college represent an admixture of youth and experience. Staying true to the spirit of any healthy organizational set-up, the new entrants to the service are groomed by the seniors at various levels in order to prepare them for the dual role of academician-administrator. Along with the seniors, junior faculties are entrusted with conducting

admission, University examinations, Students' Union election and various other administrative works. The mechanism helps Govt. College teachers build up their leadership in academic and college administration. When the Principal is out of station, senior teachers have to discharge duties as Officer-in-Charge on rotation and thus can develop their administrative ability to run the college under various situations.

The teachers also have to function as Coordinator of the unit of Netaji Subhas Open University, thereby having an opportunity to develop their administrative qualities. These experiences prepare a teacher for future assignments of extreme importance and encourage them to be a better teacher.

Most important task of the college authority is to groom leadership among its students who in near future will take the responsibility to enrich the national agenda. The elected Students' Union is an important platform where students have ample opportunity to get trained and enrich their leadership qualities. The General Secretary of the Students' Union gets to participate in policy framing through the Governing Body of the College. Through multiple co-curricular activities of the union, the organizing capability of the students gets developed. Organization of cultural competitions, debate and quiz, annual sports also inculcate a sense of responsibility in fund management, life skills and disciplinary measures in them.

Some of the non-teaching staff are selected to lead the day-to-day functioning of college administration while some are assigned management of finance and accounts related activities. The non-teaching staff also get a place in the Governing Body of the College and IQAC, thereby accruing direct management skills. Otherwise, they form the steel-frame of the administrative support mechanism of the College. The continuity in administrative and student-related functions are ensured by their alertness only.

6.1.7 How does the college delegate authority and provide operational autonomy to the departments/units of the institution and work towards decentralized governance system?

The Principal of the College believes in collective leadership and decentralized governance. The departments of the College enjoy operational autonomy in academic, financial and developmental matters. They have the power to decide the cut-off marks for UG and PG admission, purchase of books, purchase of contingency equipment, set up academic

calendars and regular lesson plans for the department, departmental routine preparation, distribution of syllabus and class-load among teachers, arranging of seminar classes, tutorials, remedial classes, functioning of departmental libraries, departmental excursions and conducting of departmental meeting on academic matters.

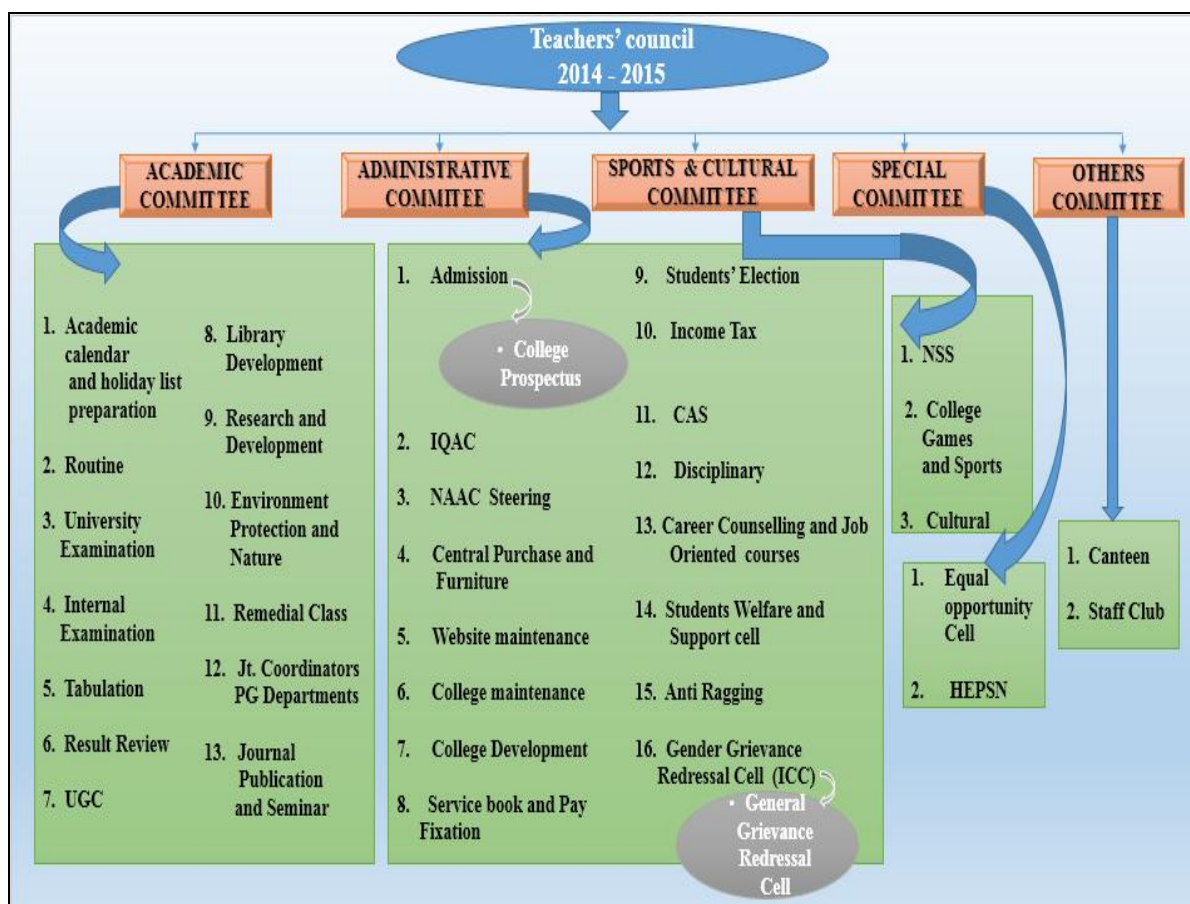
The PG Departments in addition to the above enjoy academic autonomy. The Principal assigns the post of 'Head of the Department' on seniority and honorary basis. The Heads of the Departments have the responsibility for managing academic and some financial matters.

The Principal, or for that matter other personnel from the management, do not interfere in the autonomy of the Admission Committee of the College, formed by the Teachers' Council. Acting almost independently, this is a major area where the performance of the teachers is commendable. Again, sub-committees such as Anti-Ragging Committee, Internal Complaints Committee (ICC), General Grievance Committee, Internal Examination Committee etc. have operational autonomy in dealing with their respective issues. The Principal coordinates between the sub-committees and sections to maintain a harmonious balance.

Tender and Purchase committee operate the purchasing procedure and the Principal sets guidelines of fund distribution in consultation with the Departmental Heads. With the given fund, each department prepares the list of books and journals, lab materials, chemicals and equipment to be purchased and guides the process of submitting quotations against published tenders from the vendors. Special care is taken to maximize the efficiency of the existing infrastructure of the institution with the active participation of all.

6.1.8 Does the college promote a culture of participative management? If 'yes', indicate the levels of participative management.

Yes, the college promotes the culture of participative management for an effective internal coordination and monitoring mechanism. All activities in the College involve active participation between the Principal and the Teachers' Council. The Teachers' Council being the highest academic body of the College has to take decisions in all academic matters. Participatory management is ensured through the various sub-committees, and membership of non-teaching staff and students' representatives in selected committees of the college.

Table 6.2: *Different Sub-Committees of the Teachers' Council (2014-15 Session)***Photograph 6.1:** *A Teachers' Council Meeting in progress*

6.2 Strategy Development and Deployment

6.2.1 Does the Institution have a formally stated quality policy? How is it developed, driven, deployed and reviewed?

Imparting quality education at an inclusive level to cater to all corners of the society has been the policy of the College since its inception in 1950. The policy as encapsulated in its mission is to empower our students with holistic education thereby creating true human being who would be veritable assets of the society. This policy is developed by the collective efforts of all the stakeholders and driven by the enthusiasm and hard work of all concerned. It is reviewed through the Annual Quality Assurance Report which records the quality enhancement and sustenance measures for every year.

6.2.2 Does the Institute have a perspective plan for development? If so, give the aspects considered for inclusion in the plan.

The development plan of the Institution is formulated through the cumulative effort of the Principal, Governing Body, teaching faculty and office staff. It has to take into account the State Government Development Grant and the grants sanctioned by UGC and also by DST. For the academic development the institution plans to open new subjects of teaching from time to time. The institution is considering opening of new UG Honours courses in Statistics and Physical Education. Keeping in mind the quality of faculty members, basic infrastructure, results and students' demand, the College is going to introduce PG course in Chemistry. It has already received due affiliation of West Bengal State University and is waiting for the final approval of the Higher Education Department.

6.2.3 Describe the internal organizational structure and decision making processes.

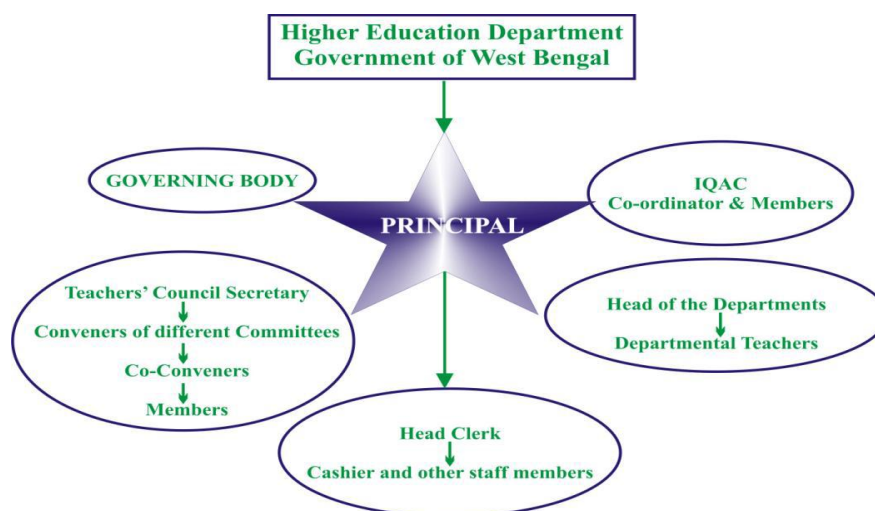


Figure 6.1: Organizational Structure of the College

Education Directorate and Higher Education Department - these two wings of the Ministry of Education, Government of West Bengal directly controls the organizational structure of this college. Governing Body is the top management relating to decision making process. Rest of the organizational detail is shown by the above schematic diagram.

6.2.4 Give a broad description of the quality improvement strategies of the institution for each of the following:

✓ **Teaching and Learning:**

- ❖ The quality of the teaching learning process, from academic point of view, depends on capacity of teachers and receptivity of students. Elimination of vacancy in teaching posts remains a constant endeavour of the College.
- ❖ The geographical catchment area of our students is gradually expanding to remote corners of the district. To augment the quality of students and ensure equity based admission process the college has introduced on-line admission since 2013 and proper vigilance over the system is effected. A high level of societal and financial heterogeneity among the students is observed. In order to overcome the said heterogeneity teachers specially guide the weaker students beyond class hours.
- ❖ Both at the UG and PG levels, participative learning, interactive sessions, student seminars, case studies, project work, assignments, and problem solving exercises, practical/field work and use of audio-visual teaching aids are regularly used.
- ❖ A feed-back based teaching-learning-evaluation system by the principal stakeholders of the college has been developed. Three types of evaluations are made for that purpose. These are as follows.
 - Evaluation of every teacher by the students.
 - Evaluation of the College by the students.
 - Evaluation of the College by the parents.

Feedbacks are analysed regularly and statistically and the outcomes are circulated among the teachers for their awareness and improvement)

- ❖ UGC funded remedial courses for SC, ST, OBC and minorities are conducted.
- ❖ The Internal Academic Audit is conducted at the end of each academic year. This process helps every teacher fill up the shortcoming, if any, and improve qualitatively in his teaching plan.

- ❖ The projector-based teaching in E-class rooms is in practice in most of the Departments.
- ❖ Study tours, educational excursion of students for different departments are conducted as on-curriculum /off curriculum programme. The students are to prepare and submit a full report on the field study thereafter.
- ❖ The College, in partnership with NIELIT Computer centre, provides a basic soft skill training course to the students.
- ❖ All the departments encourage their students to spend some quality time at their own seminar libraries to carry out their reference work under the supervision of one of the departmental teachers. The teachers devote a part of their time in the departmental library.
- ❖ Most of the departments organize invited lectures, talks regularly.
- ❖ Project, dissertation, students' seminar which are normal practice to PG students, are also encouraged at the undergraduate level. Hands-on training of different instruments, gadgets and software are provided to both PG and UG students.
- ❖ Students from weaker sections are given support in their studies by way of full or partial tuition fee waiver. Care is always taken so that no student having a desire for education drops out for want of fees.
- ❖ It should be emphasized here that special attention is given while introducing a new course so that the academic standard is maintained. Introduction of new UG and PG courses are in the anvil. The matter of value education and community outreach has been an integral part of our overall curriculum. This also becomes evident from the appreciable student-teacher-staff-community relationship.
- ❖ It should be reiterated that the efficiency of any process is achieved incrementally and there is always a room for further development. The College endeavours to achieve greater heights in respect of teaching learning process.

✓ **Research & Development**

- ❖ The teaching staff members are showing their interest to bring research fund against minor or major research projects for the overall academic development of the College. Funds are now coming from various State level and Central Govt. agencies. The amount of funds received for minor and major projects is significantly higher than before.

- ❖ The college encourages participation of staff members in faculty development programmes within and outside the College, without disrupting the academic schedule. Keeping in mind the ongoing academic programme, departments arrange local and State level Seminars, Symposiums etc. on different issues. The college also encourages its faculties to participate in Seminars, Workshops, Symposiums organized by other institutions.
- ❖ The increasing number of publications in international and national peer reviewed journals bear evidence of academic contribution of this college to the national and global knowledge base.
- ❖ The college publishes its Academic Journal “Aureole” (ISSN 0976–9625) on a regular basis. Teachers from this College and other institutions of West Bengal publish their papers on current issues of research. Notice on ‘Call for Papers’ are widely publicized and the articles are peer-reviewed following a double-blind method.

✓ **Community engagement**

- ❖ The college has an active NSS unit which has increased its activities over the last few years. Several outreach programmes have been successfully organized.
- ❖ Large number of students as well as teaching and non-teaching staff have participated in Thalassemia detection camp and few carriers have been identified.
- ❖ The college helps different wings of the Government to arrange its broadcast events and public examinations. The teachers and non-teaching staff of the college extend their active participation to conduct those examinations.
- ❖ Through its unit of Netaji Subhas Open University the college helps the local populace in terms of adult and continuing education for study in different branches.

✓ **Human resource management**

- ❖ The teaching faculty works in various committees and sub committees and participates in the cultural activities of the College. They are also engaged in research and publication. The Principal encourages the involvement of the teachers in meaningful decision-making and also motivates the faculty members for undertaking research.
- ❖ During the promotion or placement of teachers to higher scale of pay, the Principal has to send their Annual Confidential Reports and Special Confidential Reports to the Director of Public Instruction, West Bengal.

- ❖ The non-teaching staff are assessed by the concerned department and the Principal also takes adequate care to examine the performances of the staff. Their training for coping with the technological changes are organized by the Principal.
- ❖ The health related needs of the employees and their families are covered under cashless Health Scheme instituted by the Government of West Bengal.

✓ **Industry interaction**

- ❖ There is a Career Counselling Cell in the College which frequently organizes industry interfaces between the industry and the students. It is mostly the final year students who attend these career counselling and job recruitment sessions. The College had organized a Career Fair in February, 2011 whereby several partners from the industry groomed the students of this College. Thereafter several career counselling sessions have been organized every year to enlighten the students. The Eastern Institute for Integrated Learning in Management (EILM) recently organised a grooming session for the final year UG students at college premises for higher educational prospects and jobs.

6.2.5 How does the Head of the institution ensure that adequate information (from feedback and personal contacts etc.) is available for the top management and the stakeholders, to review the activities of the institution?

The Head of the Institution ensures collection of information through the following:

- Formal feedback from students of each department.
- Continuous informal feedback from teachers and non-teaching staff.
- Feedback from Head of the Departments.
- Feedback from the departments on Parent-Teacher meetings.
- Minutes of PG Board of Studies meetings and Teachers' Council meetings.
- Additionally the Alumni of the College also provide inputs for improvement.

6.2.6 How does the management encourage and support involvement of the staff in improving the effectiveness and efficiency of the institutional processes?

The College authority takes all possible care to ensure that all the members of staff are involved in the institutional processes. The Governing Body and Internal Quality Assurance Cell has representatives from both teaching and non-teaching staff which ensures their active participation. The Teachers' Council along with the sub-committees have a mechanism to

groom junior teachers. Meetings of all these bodies are held at regular intervals and the institutional processes are reviewed so that their efficiency is enhanced. This guarantees that all official activities are performed promptly and efficiently. The effort of the non-teaching staff in executing the official works is quite appreciable.

6.2.7 Enumerate the resolutions made by the Management Council in the last year and the status of implementation of such resolutions.

The Governing Body and the Teachers' Council have made several resolutions on academic and administrative aspects of the College.

- *Recent resolutions of Governing Body are as follows:*

(i) In the meeting held on 14th November 2014, the Governing Body resolved that a condemnation committee will be formed to dispose the unusable & discarded articles lying as junk, occupying large space in the college campus. The said resolution duly forwarded to the Higher education Department for approval. The College recently received the necessary approval from the Govt. The process of such disposal is now in progress.

(ii) It also resolved the matter regarding the proposal sent to the MPs of the districts seeking funds from MPLAD Fund for the construction of new library building. The matter is under consideration.

The minutes of the meetings are available for perusal.

6.2.8 Does the affiliating university make a provision for according the status of autonomy to an affiliated institution? If 'yes', what are the efforts made by the institution in obtaining autonomy?

As a Government College under the aegis of the Higher Education Department, Government of West Bengal, the College needs approval of the Government for obtaining autonomy. The College is yet to approach the Government with a proposal for autonomy. For the undergraduate level the academic decisions (framing of syllabus, conducting examinations, fixing norms of admission and registration, etc.) are taken by West Bengal State University. However, the college has academic autonomy at the postgraduate level.

6.2.9 How does the Institution ensure that grievances/complaints are promptly attended to and resolved effectively? Is there a mechanism to analyze the nature of grievances for promoting better stakeholder relationship?

- ❖ The College has an Internal Complaints Committee (ICC), as per the Vishakha guidelines. It also has a Grievance Redressal Cell where students can record their grievances. They can also provide their feedback about the College in the evaluation forms given to them by the IQAC.
- ❖ There is a formal mechanism to address general grievances as well. Names of incumbents in Anti-ragging squad are displayed properly. Complaint boxes have been placed in multiple strategic locations of the College. There is a Gender-Box also to keep intact the anonymity of complainants of harassments.
- ❖ The faculty members keep a very cordial relationship with the parents of the students. Parent-Teacher meetings are conducted in each department every year. Feedback from the parents is recorded and sincere effort is made to address the issues to help the quality control of the Institution. The guardians also meet the Principal for redressal of their grievances.

6.2.10 During the last four years, had there been any instances of court cases filed by and against the institute? Provide details on the issues and decisions of the courts on these?

No.

6.2.11 Does the Institution have a mechanism for analyzing student feedback on institutional performance? If 'yes', what was the outcome and response of the institution to such an effort?

- ❖ The outgoing Third year and PG II students are given feedback forms by the IQAC in which they evaluate the infrastructural facilities of the College and also faculties of respective departments. Anonymity is maintained in this case. The filled up forms are analysed by the IQAC committee and also the Principal and necessary steps are taken for improvement.
- ❖ For example, some time ago certain girl students had expressed reservation on the sufficiency of ladies toilets in the College through the feedback form. The IQAC decided to address the issue by proposing creation of entirely new toilet complex for the students and forwarded it to the Principal. Prompt actions were initiated as a result.

6.3 Faculty Empowerment Strategies

6.3.1 What are the efforts made by the institution to enhance the professional development of its teaching and non-teaching staff?

- ❖ Research being one of the priorities of the Institution, the faculty members are engaged in conducting major and minor research projects, participating in national and international seminars and workshops. Further, the teachers also act as resource persons in seminars, workshops, etc. conducted by other colleges/universities. They also regularly attend Orientation Programme, Refresher Courses and Summer Schools conducted by the various Academic Staff Colleges for their enrichment.
- ❖ Internet facilities have been provided to the teachers within the campus to increase their academic productivity and output.
- ❖ The non-teaching staffs are given Computer training and hands-on interactive sessions with software such as COSA, E-Bantan, E-Pradan etc. for preparation of salary bill, keeping accounts, student's data and various other functions of the office.

6.3.2 What are the strategies adopted by the institution for faculty empowerment through training, retraining and motivating the employees for the roles and responsibility they perform?

In the past five years, there have been fifty one (51) instances where the teachers have been able to complete Refresher Course, Orientation Programme, PhD Coursework etc. and the College authority has always been supportive of such needs of the teachers. The faculty members of the College are also engaged in various activities of academic leadership. They are encouraged to perform their duties as the BOS members of the West Bengal State University, as Head Examiner, Examiner, Scrutinizer, Paper setter, Moderator, Counselor of Distance Education programme etc. The IQAC constantly monitors such activities of the teachers and keeps them abreast with latest administrative directives to ensure propriety.

6.3.3 Provide details on the performance appraisal system of the staff to evaluate and ensure that information on multiple activities is appropriately captured and considered for better appraisal.

- ❖ The Institution maintains Daily Self-Appraisal System in which each teacher keeps a record of attendance, classes allotted and taken and other academic as well as administrative activities done inside and outside College. These Self-Appraisal

Reports of each teacher are submitted to the Principal every month and are forwarded by the Principal to concerned higher authorities. All such multifaceted activities of a teacher are reflected in a consolidated manner in the form of Annual Confidential Report (ACR), which is prepared by consulting the Self-Appraisal Reports.

- ❖ The teachers are at times provided deputation-posting to a responsible post. They are also encouraged by the UGC Career Advancement Scheme endorsed by the Government. Record of their leaves are also kept and documented accordingly.
- ❖ There is scope of Career Advancement Schemes for non-teaching staff as well. They are evaluated by the Principal and Head of the concerned department. The non-teaching staffs undergo a Performance appraisal system where the Principal submits Annual Progress Report (APR) to the higher authority.

6.3.4 What is the outcome of the review of the performance appraisal reports by the management and the major decisions taken? How are they communicated to the appropriate stakeholders?

The Daily Self-Appraisal of the faculty are submitted to the Principal which is subsequently forwarded to the Higher Education Department, Government of West Bengal. Annual Confidential Report (ACR) of every faculty is prepared in consonance with these Self-Appraisal Reports. This serves as a necessary document for the Career Advancement of the faculty. At the time of confirmation of service of every teaching and non-teaching staff a Special Confidential Report from the Principal is also required.

6.3.5 What are the welfare schemes available for teaching and non-teaching staff? What percentage of staff have availed the benefit of such schemes in the last four years?

The permanent employees of the College are bona fide Government servants. As a result they are entitled to the General Provident Fund (GPF), Group Insurance (GI) Scheme and the Cashless Health Scheme of the Government of West Bengal. The GPF and GI schemes are compulsory for all and hence 100% employees are availing it. The Health Scheme is in force since 2008 and has been availed by more than 95% of employees till date. Under the new cashless health scheme, even families of employees have been brought under insurance.

6.3.6 What are the measures taken by the Institution for attracting and retaining eminent faculty?

The College is guided by the recruitment policy of Government of West Bengal and so it cannot appoint regular faculty on its own. The recruitment of the teaching staff is made as per existing rules following UGC norms by the Department of Higher Education through the Public Service Commission, West Bengal. However, the College is empowered to engage eminent faculties as Guest Teachers. The Postgraduate departments in particular invite senior retired academicians to deliver course lectures or special lectures.

6.4 Financial Management and Resource Mobilization**6.4.1 What is the institutional mechanism to monitor effective and efficient use of available financial resources?**

Being a Govt. College, it is guided by the financial rules of the Govt. of West Bengal. A number of committees consisting of teaching and/or non-teaching staff are constituted every year to ensure purchase of equipment, books and furniture. Utilization of resources and also monitored effectively. Such committees are:

- (1) Tender Committee.
- (2) Central Purchase committee
- (3) UGC committee
- (4) DST-FIST committee
- (5) Departmental council of PG Departments
- (6) Committee of the Heads of the Departments
- (7) Library committee
- (8) Internal Quality Assurance Cell.

Other significant mechanisms are as follows

- E-tendering process is ensured to maintain fairness in purchase related matters. Sufficient publicity is given to the tenders through other Govt. offices.
- Salary is billed through the COSA software. Financial resources are received directly into bank accounts and the State Government has introduced the mechanism of E-Pradan thereby making the system computerized.
- Records of purchases, bill and cheque registers, stock books, scholarship registers showing receipts and disbursements are maintained and regularly updated. Each committee has its own registers for maintaining records.

- Every department maintains its stock register and internal audits are conducted. PG departments have Treasurers who handle the financial resources.
- The whole process of fund allocation and management is supervised by the Principal. The Governing Body also recommends proposals for the effective utilization of financial resources. Auditing is done periodically and stipulations are met.

6.4.2 What are the institutional mechanisms for internal and external audit? When was the last audit done and what are the major audit objections? Provide the details on compliance.

Grants received from UGC, DST, DBT etc. are regularly audited by registered auditors and the utilization certificate and statement of expenditures as per prescribed formats, are submitted to the respective bodies in due time. The grants received by the state government are audited by the Audit and Accounts Section of the office of the Principal Accountant General, Government of West Bengal. They conduct detailed audit of all accounts periodically. The last audit was conducted for the period 01.01.2013 to 24.02.2015.

Major objections and its compliance to the same is being incorporated in the Annexure section of this Document. The detailed inspection report and broad-sheet reply are also available at the College for perusal.

6.4.3 What are the major sources of institutional receipts/funding and how is the deficit managed? Provide audited income and expenditure statement of academic and administrative activities of the previous four years and there serve fund/corpus available with Institutions, if any.

The institution receives annual and planned funds primarily from the Government of West Bengal and UGC. The College has also received project-wise from the DST, New Delhi. Apart from these, additional grants for specific purposes are also received by the College, details of which are discussed under Question No. 6.6.4. The details of receipts and expenditure under Plan and Non-Plan head and UGC grants are being listed below. Records are available for perusal. The expenditures on state government funds are made as per availability/allocation of fund. However in the case UGC fund, in order to implement the scheme, deficit is temporarily managed by allocating the same from college fund which becomes adjusted after allocation by UGC on completion of the project.

Table 6.3: STATEMENT OF ACCOUNTS IN RESPECT OF WEST BENGAL
GOVERNMENT GRANT (PLAN GRANT) DURING 2011-2015

Plan Grant (Development Grant) Heads of Accounts	Total Receipts					Total Expenditure between 2011-2015 (Rs.)
	2011-12 (Rs.)	2012-13 (Rs.)	2013-14 (Rs.)	2014-15 (Rs.)	TOTAL (Rs.)	
Equipment	9,00,000	4,00,000	2,00,000	2,00,000	17,00,000	16,98,555
Chemicals and Glassware	7,00,000	3,00,000	4,00,000	3,00,000	17,00,000	16,97,517
Books and Journals	4,50,000	2,50,000	2,00,000	1,50,000	10,50,000	10,49,791
Furniture	5,50,000	6,50,000	1,80,000	--	13,80,000	13,78,610
Contingency	1,00,000	1,00,000	1,00,000	1,00,000	4,00,000	3,98,542
Total	27,00,000	17,00,000	10,80,000	7,50,000	62,30,000	62,23,015



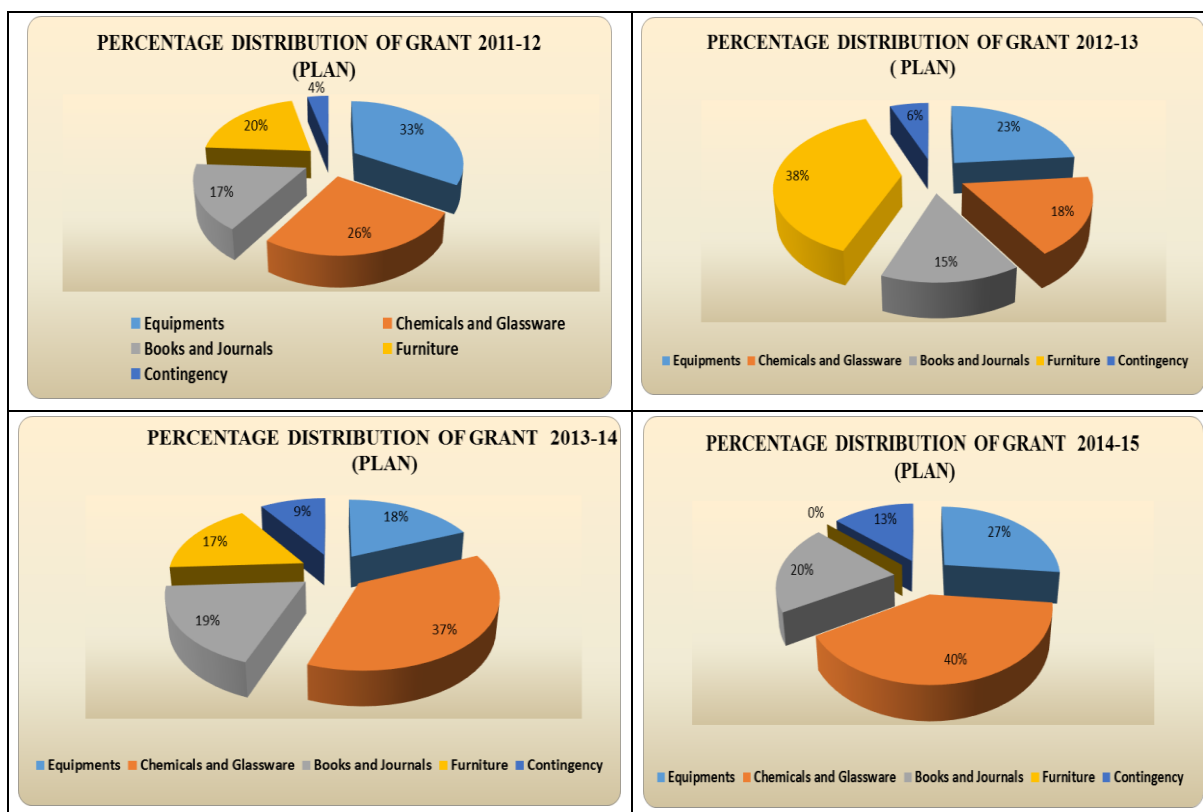


Table 6.4: STATEMENT OF ACCOUNTS IN RESPECT OF WEST BENGAL GOVERNMENT GRANT (NON-PLAN) DURING 2011-2015

Non-plan Grant	Total Receipts					Total Expenditure between 2011-12 and 2014-15 (Rs.)
Heads of Accounts	2011-12 (Rs.)	2012-13 (Rs.)	2013-14 (Rs.)	2014-15 (Rs.)	TOTAL (Rs.)	
Salary (including Arrear)	5,36,18,520	6,87,60,000	7,55,94,289	8,24,20,455	28,03,93,264	28,03,93,264
Office Expenses	12,03,750	14,84,540	17,50,000	14,92,120	59,30,410	59,30,410
008 Other Charges	2,20,000	4,15,000	2,10,000	2,39,540	10,84,540	10,84,540
50 Other Charges	21,08,446	37,87,205	12,30,000	34,17,131	1,05,42,782	1,05,42,782
Rent, Rate and Taxes	85,000	3,70,000	2,50,000	7,73,060	14,78,060	14,78,060
Total	5,72,35,716	7,48,16,745	7,90,34,289	8,83,42,306	29,94,29,056	29,94,29,056

**Table 6.5: STATEMENT OF ACCOUNTS IN RESPECT OF GRANTS FROM UNIVERSITY
GRANTS COMMISSION DURING 2011-2015**

Heads of Accounts	Total Receipts (in rupees)				
	2011-2012	2012-2013	2013-2014	2014-2015	Total
Books and Journals	6,17,656	2,68,773	2,77,113	1,42,500	13,06,042
Equipment	10,80,000	2,37,500	1,00,000	1,42,500	15,60,000
Additional Grant for equipment	9,02,000	12,50,000	11,27,500	12,25,500	45,05,000
Entry in service	6,40,000	4,40,000	--	--	10,80,000
Remedial coaching for SC/ST/OBC	4,20,000 (recurring) 30,000 (non-recurring)	1,50,000 (recurring) 1,25,000 (non-recurring)	--	--	7,27,000
Seminars and Conferences	2,56,000	20,878	16,622	--	2,93,500
Research Projects	--	--	13,61,480	7,65,080	21,26,560
PBG-31	--	--	2,79,558	--	2,79,558
PBG-35	--	--	3,58,232	--	2,58,232
Building	17,00,000	--	10,00,000	4,50,000	31,50,000
IQAC	--	--	3,00,000	--	3,00,000
Total	56,45,656	24,92,151	48,20,505	27,25,580	1,56,83,892

Table 6.6: STATEMENT OF ACCOUNTS IN RESPECT OF DST-FIST GRANT

Total Receipts	Total Expenditure during 2013-15
Rs.56,50, 000/- vide Order No. SR/FST/COLLEGE-078 dated 15.02.2012. Sanction Sl. No. 33, dated 30.05.2013	Rs.56,50,000/-

6.4.4 Give details on the efforts made by the institution in securing additional funding and the utilization of the same (if any).

For securing additional funding separate proposals are placed to the Govt. as well as UGC. For example in terms of infrastructural development/upgradation/maintenance, the college submits project-wise proposals duly vetted by the Public Works Department (PWD) to the Higher Education Department, West Bengal. Government generously considers the projects and allots fund at the disposal of PWD for execution of the works. Proposal for sanction of grants towards construction of Annex Chemistry building and sanction of additional grant towards purchase of laboratory equipment etc. are submitted to UGC and are considered.

Table No. 6.7: Details of Additional Grants received by the College

Sl No.	Name of the Grant Received	Sanction No.	Grant received (Rs.)						U.C. Submission with date
			1 st Phase	2 nd Phase	3 rd Phase	4 th Phase	5 th Phase	Total	
1.	UGC Grant XI th Plan for Additional grant (Equipment)	AGW-143/10-11 dated 13.10.11	9,02,000	11,27,500	2,25,500	--	--	22,50,000	U.C on 05.06.13
		AGW-607/11-12 (ERO) dated 01.11.12	--	--	--	12,50,000	10,00,000	22,50,000	U.C on 11.09.14 and 05.05.15
2.	UGC Golden Jubilee Grant for Construction of Extension of Annex Chemistry Building	WG-032/11-12 dated 05.12.13 and 02.01.14	12,50,000	10,00,000	2,50,000	--	--	25,00,000	U.C on 11.09.13 and 23.06.15
3.	Govt. Grant for Construction of Annex Chemistry Building	G.O. No.132/Sanc/ EH/P/CG/ 4-C-77/2012 dated 20.07.12	46,46,969					46,46,969	U.C Submitted
4.	Govt. Grant for Construction of Extension of New Science (Annex) Building	G.O No.691(Sanc)/EH/ P/CG/4C-106/2011 dated 17.02.15	5,00,000					5,00,000	Revalidation Submitted
5.	UGC Fund for B.A. Building	MSWS-039/09-10 (ERO) dated 01.11.11	4,50,000	4,50,000	--	--	--	9,00,000	U.C on 04.09.12 and 10.12.13
6.	UGC Grant under HEPSN Component-2 for Construction of ramp and railing	MSWS-039/09/10 dated 01.11.11	2,50,000					5,00,000	U.C on 11.09.13
		MSWS-039/09/10 dated 09.09.14	2,50,000						
7.	Govt. Grant for purchase of Double distillation set in the Chemistry Department	G.O No.898(Sanc)/EH/ N/CG/4C-93/2012 dated 22.03.13	1,50,547					1,50,547	U.C Submitted
8.	Govt. Grant for purchase of Double distillation set in the Botany Department	G.O No.897(Sanc)/EH/ N/CG/4C-93/2012 dated 22.03.13	2,61,290					2,61,290	U.C Submitted
9.	Purchase of research Instrument (Microscope) for Botany PG department	G.O No.897(Sanc)/EH/ N/CG/4C-31/2012 dated 22.03.13	5,42,709					5,42,709	U.C Submitted

6.5 Internal Quality Assurance System (IQAS)

6.5.1 . Internal Quality Assurance Cell (IQAC)

a. Has the institution established an Internal Quality Assurance Cell (IQAC)? If ‘yes’, what is the institutional policy with regard to quality assurance and how has it contributed in institutionalizing the quality assurance processes?

- ❖ Yes, the College has constituted Internal Quality Assurance Cell (IQAC) on and from 06.01.2010 following the relevant guidelines. This Cell monitors the teaching, research and various departmental activities of each department.
- ❖ Feedback regarding teaching, infrastructural facilities and other amenities of the College are collected from the students by this Cell.
- ❖ This Cell visits each department every year to verify the yearly progress of the department with regard to record documentation, academic and research activities.
- ❖ The students’ feedback for each department is considered. Good points are appreciated and remedial measures for the weak points are suggested.
- ❖ The Cell is responsible for regular submission of Annual Quality Assurance Report (AQAR) to NAAC. The AQARs of the last four years have also been uploaded in the College Website.

b. How many decisions of the IQAC have been approved by the management/authorities for implementation and how many of them were actually implemented?

The decisions could be implemented through institutional endeavour only. Details of institutional implementation are being mentioned in the following table.

Table 6.8: Status of Implementation of Decisions of the IQAC

Year	Date of Meeting	Broad theme of Discussion/Resolution	Status of Implementation
2010	06/01/2010	Selection of IQAC team members, in accordance with the requirements for NAAC.	IQAC has discussed the matter with all the Depts. and identified their strengths and weakness.
	07/09/2010	a) Suggestion for construction of new building for PG section. b) Proposal for construction of ramp in Main and Annex Building c) Job oriented programmes to be organized.	Proposal sent to PWD for construction of new Chemistry building and Ramp.

2011	17/02/2011	a) Dr. Nisith Chandra Das selected as Coordinator of IQAC and Dr. S. Poddar and Saikat Naskar included as members. b) Discussion on Teaching-learning system.	A Career fair has been organized in February, 2011
	28/09/2011	a) Proposal for organizing seminars in different Departments. b) Redressal of students' grievance on condition of toilets.	a) Some departments have organized Seminars; b) Increasing the number and improving the condition of toilets.
2012	19/09/2012	a) Proposal for a separate room for Seminar Library for humanities section. b) Proposal to increase space in central library and digitization of library materials.	a) A room of the Main Building has been allotted for Seminar Library. b) Space of Central Library has been increased. c) Construction work of new Chemistry building has started.
	30/08/2012	a) Departments asked to give requisition for infrastructural upgradation, including photocopier machine, laptop, internet connectivity. b) Proposal for formation of a Research Committee as per UGC guidelines.	a) Internet connectivity provided to different departments.
2013	07/01/2013	a) Proposal for initiation of full-fledged Online admission system from 2013-14.	a) Research Committee has been formed to promote research activities.
	20/08/2013	a) Proposal for regular cleaning and beautification of the College campus. b) Proposal for extension of 2 nd floor of the Main Building to accommodate laboratories of Botany, Zoology and Seminar Library.	a) Partial system of online submission of forms began. b) B.A. Building and Ramp constructed.
2014	02/04/2014	a) Proposal for UGC-Inflibnet online journal membership. b) Proposal to provide more internet facilities to the students.	a) E-corner for students created in Central Library.
	27/11/2014	a) Proposal for complete online admission. b) Proposal to shift B.Sc General course from Morning section to Day section. c) All Departments asked to distribute feedback forms to the outgoing students.	a) The Central Library has subscribed membership for UGC-Inflibnet.
2015	04/05/2015	a) Discussion on approval of WBSU on new PG course in Chemistry. b) Proposal for installation of air-conditioning system in Reading Room of the Central Library.	a) Feedback from students have been evaluated. b) Air-conditioning facility provided in Reading Room.

c. Does the IQAC have external members on its committee? If so, mention any significant contribution made by them.

Yes, there are external members included in the IQAC. The external members offer valuable suggestions on many occasions. We have had among us the Additional District Magistrate, Additional Director of Public Instruction, Member-Secretary, Higher Education Council as members of IQAC. From 2014, few alumni members are also part of the IQAC. The decision to introduce new PG course in Chemistry had been endorsed by the external members and full co-operation in this regard had been promised by the high functionaries of the Government. Similarly, construction of a Girls' hotel was also proposed by the external members keeping in mind the high enrolment ratio of girl students in this College. The list of present IQAC members is given in the following table.

Table 6.9: Composition of IQAC

Chairman:	Dr. Subhasis Dutta, Principal, Barasat Govt. College.
Co-ordinator	Dr. Jukta Adhikari, Professor and Head, Department of Botany
Senior Administrative Officer:	Additional District Magistrate, Development, North 24 Parganas. Govt. of West Bengal.
	Prof. Jayasri Ray Chaudhuri, Additional DPI (Admn), Education Directorate, West Bengal.
	Dr. Prabir Kumar Das, Member Secretary, West Bengal Council for Higher Education.
Teacher Members:	Dr. Pradip Mukherjee, Professor and Head, Department of Physics.
	Dr. Dilip Kumar Naha, Professor and Head, Department of Bengali.
	Sri Sujit Kumar Bhattacharyya, Head, Department of Geography.
	Dr. Basabi Roychowdhury, Head, Department of English. .
	Mrs. Arpita Neogi Sengupta, Head Department of Philosophy.
	Dr. Arun Kumar Roy, Librarian,
	Mr. Prabal Bagchi, Head, Department of History.
Members from the Management:	Dr. Madhumita Manna. Head, Department of Zoology.
	Principal, Goenka College of Commerce and Business Administration , Kolkata.
Local Society Members:	Smt. Rahima Biwi Mondal, Hon'ble Sabhadhipati, North 24 Parganas.
	Sri Sunil Mukherjee, Hon'ble Member, Barasat Municipality.
	Prof. Sobhakar Ganguly, Hon'ble Member, Governing Body, Barasat Govt. College.
Student Representative:	Archita Bhoomik, M.A. SEM-II, Department of Bengali, Barasat Govt. College.
	Saikat Shoo, M.Sc. SEM-II, Department of Botany, Barasat Govt. College.
Alumni Representative:	Dola Chattopadhyay, Ex-Student of Economics. Presently, Assistant Professor. Department of Economics, Bidhannagar College.

d. How do students and alumni contribute to the effective functioning of the IQAC?

- Two student members have been incorporated in the IQAC as per latest set of guidelines. They are encouraged to present the opinion of the student community.
- Students are the primary stakeholders towards whom all efforts of the IQAC are targeted. Their feedback is treated with utmost seriousness and quality improvement measures are taken.
- Alumni Association of the college also contribute their valuable suggestions to the overall development of the Institution.

e. How does the IQAC communicate and engage staff from different constituents of the institution?

- Apart from the Principal, present teachers from different departments are taken as constituent members of the IQAC.
- One non-teaching staff member and two student representative is also a part of IQAC.
- Through regular meetings and deliberations different constituents of the Institution are made aware of the IQAC's activities.

6.5.2 Does the institution have an integrated framework for Quality assurance of the academic and administrative activities? If 'yes', give details on its operationalization.

- For the slow learners, tutorial classes are arranged. The teachers continuously evaluate the students based on their classroom interactions, home assignments in the tutorials and also class tests. Students are encouraged to use the internet for their reference work under the guidance of a teacher of the department.
- Seminars and talks are organized to acquaint the students with different perspectives related to their subject. Parent teacher meetings are held to notify the guardians about their ward's progress.
- The computerization of the College office, incorporation of software such as COSA, E-Bantan, E-Pradan, LibSys etc. has enhanced the quality of administrative activities.
- The College Library has access to online journals through Infilbnet and British Council Library facility.

6.5.3 Does the institution provide training to its staff for effective implementation of the Quality assurance procedures? If 'yes', give details enumerating its impact.

Recommendations of IQAC are communicated to the concerned teachers. They are asked to follow UGC-CAS guidelines to meet their career-related stipulations. Faculty members are encouraged to undertake faculty development programmes as follows:

- Refresher and Orientation Courses.
- Summer and Winter Schools.
- Faculty Improvement Programme under UGC scheme.

The training of teaching staff are looked after by the Government and the College follows directives issued by the Government in this connection.

6.5.4 Does the institution undertake Academic Auditor other external review of the academic provisions? If ‘yes’, how are the outcomes used to improve the institutional activities?

The IQAC in consultation with the Principal undertakes academic audit internally. There are plans to engage external reviewers for this purpose, in order to augment the qualitative aspects. On another level, Daily Performance Reports submitted by the faculty members are monitored by the Principal and these are forwarded to the higher authorities. The Principal is also responsible for preparation of Annual Confidential Report (ACR). These measures are taken to evaluate the teachers and the teaching learning process is thus aimed towards academic excellence.

6.5.5 How are the internal quality assurance mechanisms aligned with the requirements of the relevant external quality assurance agencies/regulatory authorities?

The IQAC follows the criteria of academic evaluation laid down by regulatory authorities like UGC, Government of West Bengal and tries to implement the recommendations of agencies like NAAC. In keeping with the recommendations of the external quality assurance agencies, several measures have been adopted. Please refer to the post-accreditation initiatives in Section-F of this document for details.

The College also maintains the benchmark standards related to management of an institution. The governance structure is marked by increased use of ICT. The College also has a Career Counselling Cell, an anti-ragging Cell, SC-ST Cell, and a Psychological Counselling Cell.

6.5.6 What institutional mechanisms are in place to continuously review the teaching learning process? Give details of its structure, methodologies of operations and outcome?

- The College has a strong student feedback mechanism whereby the students can review the classroom performance of the faculties on a number of parameters. These

are looked after by the IQAC and suggestions are communicated to the concerned Departments accordingly.

- Structurally, the teaching-learning process is also reviewed through internally managed academic audits. The performances of the students are scrutinized by the result-review committee. Parents of wards are taken into confidence about the academic performances of the institution.
- Incentives are provided to the students to prevent any dropouts. To check any possible attrition of students from science stream, capacity augmentation drives are taken.
- Library facilities are being upgraded regularly and more and more relevant books and journals are being offered to the student community at large. Even e-learning resources are being made popular through systematic efforts.
- Perhaps as a result of various such drives, the demand for admission in both UG and PG courses has remained at a consistent level. The teacher-student relationship inside the campus also has helped to create an environment of mutual learning.

6.5.7 How does the institution communicate its quality assurance policies, mechanisms and outcomes to the various internal and external stakeholders?

- The College communicates its quality assurance policies, mechanisms and outcomes to the various internal and external stakeholders through the College website, the mobile application of the College, various media forms, public domain and College prospectus.
- Other outreach programmes are also organized to communicate the quality of the institution to various stakeholders of the Community. Local schools are encouraged to send their students for visiting special laboratory facilities of our College. Various Government agencies are requested to organize socially relevant programmes in partnership with the College.
- Regular wall magazines are published by several Departments for example '*Itihasjaan*' by Department of History, '*Open window*' by Department of English, '*Ayudh*' by Department of Bengali, '*Anwasha*' by Department of Chemistry and '*Life-o-Live*' by Department of Botany. Contributions are made mainly by the UG and PG students of the departments. These also in a way express the academic quality assurance of the Institution.

Any other relevant information regarding Governance Leadership and Management which the college would like to include.

Leadership qualities are honed with proper opportunities. Decentralized style of functioning in the College inculcates the spirit of leadership among several teachers. It needs to be reiterated here that teachers of this College belong to a wider pool of cadres of West Bengal Education Service (WBES). Administrative functions with respect to higher education in West Bengal are handled by this cadre only. Many teachers of this College have either performed administrative functions directly or on short-time assignments.

CRITERION - VII

INNOVATIONS AND BEST PRACTICES

CRITERION VII: INNOVATIONS AND BEST PRACTICES**7.1 Environmental Consciousness****7.1.1 Does the College conduct a Green Audit of its campus?**

The College has constituted an “Environment Protection and Nature Cell” comprising Dr. Manju Mandal (Convenor), Dr. Madhumita Manna, Dr. Tanaya Dey and Dr. Debajyoti Chakraborty. The committee is in charge of campus beautification, maintaining a ‘Green Campus’ and of taking initiatives to keep the campus eco-friendly. Initiatives have been taken to conduct a Green Audit in the College Campus.

7.1.2 What are the initiatives taken by the College to make the campus eco-friendly?

Energy conservation, Use of renewable energy, Water harvesting, Check dam construction, Efforts for Carbon neutrality, Plantation, Hazardous waste management, E-waste management, Any other.

The College provides high importance on the cleanliness of the campus as well as on developing a general environmental consciousness among all its stakeholders. For this it follows several programmes such as:

➤ Energy conservation

Energy conservation is a prerequisite for eco-friendly practices. The concern for energy conservation prevails among both the staff and the students. Special attention is given so that by the end of regular College hours, all electronic and electrical installations are immediately switched off and the devices are unplugged. Use of AC machines is regulated through awareness programme. The use of generators at the time of power cut and that of the emergency power supply is kept at an optimal level. Effort has also been taken to supplant the high energy consuming lamps with modern energy efficient CFL lamps and tubes. The college uses environment friendly and Bureau of Energy Efficiency (BEE) star rated instruments for moderate consumption of energy.

➤ **Use of renewable energy**

The college is in the process of installing a Solar Panel photo-voltaic system on the roof top of the college building with the initiative of PWD, Electrical wing, Govt. of West Bengal. The Vendor has been selected by PWD, Electrical wing. The final approval from the Government is awaited for the initiation of the work.

➤ **Water harvesting**

The College has formed a 'Water Harvesting Committee' led by Dr. Debajyoti Chakraborty, Department of Zoology. The committee has taken initiative to harvest rain water with the help of State Water Investigation Directorate (SWID), Govt. of West Bengal. The College organized a seminar in collaboration with SWID on 10th February 2015 on this issue. SWID and Agri-Engineering Department, Government of West Bengal has undertaken a feasibility study of rain water harvesting under 'Jal Dharo Jal Bharo', a project of Govt. of West Bengal. The report is expected soon.

➤ **Check dam construction**

The activity is not applicable to the college as it is situated in the heart of a populated district town.

➤ **Efforts for Carbon neutrality**

- Using Air conditioners at a fixed higher mode in order to reduce emission of greenhouse gases and thereby mitigate agents of climate change.
- Judicious use of electricity in the campus by sensitizing the stakeholders.
- Use of renewable Energy in the form of installation of solar panel photovoltaic system that will result in the reduction of carbon footprint within the college premises.
- Judicious use of Natural Gas by the Departments of Chemistry and Biological Sciences, ensuring minimum purchase of natural gas to mitigate risk tolerance to price changes.
- Management of Environmental Attributes that reduce funds to be used for projects resulting greenhouse gas emissions. These efforts that govern the campus will set procurement strategies involving long-term financial exposure, changes to

pre-determined price caps, or any change in strategy leading to a material impact on cost assumptions.

- Moreover in order to increase the carbon neutrality within the college, initiatives towards regular plantation of trees plays a significant role. Further dead leaves, waste paper, and other waste material are not burnt. These are disposed off as municipal waste.
- A fixed Parking zone for cars (of faculties and visitors) exists in the college. For restraining the problem of carbon emission, vehicle-users have been asked to adhere to BS-IV emission norms and are requested to get their cars checked on a regular basis.

➤ Plantation

Tree Plantation programme is held annually by the NSS Unit. The faculty, the staff members and the students participate in this 'Vanamahotsav' programme in collaboration with the Forest department of the district. Additionally, the Department of Botany also maintains a Medicinal Plant Garden in the college.



Photograph 7.1: Tree Plantation ceremony being observed within the College Premises

➤ **Hazardous waste management**

- Hazardous waste, which poses a threat to the environment, is primarily generated in the laboratories of the department of Chemistry and biological sciences. As the use of materials causing such waste cannot be avoided as they are mandatory part of the syllabi, earnest care is taken to eliminate the production of hazardous waste or minimize the amount of waste for disposal by recycling, re-using and/or recovering the waste.
- Moreover, primary importance is given to reduce the volume of chemical wastes generated in our laboratories and accordingly the following initiatives have been taken:
 1. Purchase of minimum quantity of hazardous chemicals required for our laboratories.
 2. Sharing surplus chemicals between laboratories of Chemistry and those of biological sciences.
 3. Purchase of mercury-free instruments.
 4. Substituting hazardous chemicals with non-hazardous chemicals whenever possible.
 5. Reducing the scale of laboratory experiments to reduce the volume of wastes being produced as and when possible.
- Apart from these, we have specially constructed a Waste Accumulation Area (WAA) outside the Department of Chemistry to dispose off the waste. The waste is passed through a pipeline to the WAA.
- Non-hazardous wastes, like dead plants and other bio-degradable waste, are collected in a chamber for pre-decomposition and the partially decomposed material is underwent through vermicomposting in the vats and re-cycled as fertilizers for the garden. The College maintains a system of segregating the bio-degradable waste from the non-bio-degradable one by installing separate dustbins in several strategic locations.
- Some dismantled building materials or canteen waste is collected in the Vat for clearance by the local municipality. Therefore, proposed practices address issues such as sustainability, cleaner production, health, safety, and environmental protection.

➤ E-waste management

The different departments of the college take the responsibility to identify all un-useable/irreparable, rejected/discarded electrical and electronic products as e-waste products. These are kept in a separate, isolated, unexposed area, to prevent accidental breakage. In order to minimize such waste and to save resources, we always encourage recycling of all end-of-life useful products and valuable material from e-waste. Vendors are appointed to recycle usable parts of discarded computer sets. Buy-back policy is also employed to manage the waste caused by appliances like photocopiers, AC machine, as an effective mode. Burning of rubber and plastic in the campus and throwing e-waste in municipal vats are strictly prohibited in the college. Care is taken so that toxic material present in e-waste, like batteries, compressors of refrigerators, and CRT monitors do not come in contact with the natural elements.

The condemnation committee of the College organizes an auction so that the waste-material may be handed over to authorized recyclers for proper disposal of e-waste as further insurance of minimum environment pollution.

7.2 Innovations

The Innovations undertaken by the college since the last NAAC peer team visit has been a holistic one, addressing both academic upliftment and administrative improvements.

7.2.1. Provide details of innovations introduced during the last four years which have created a positive impact on the functioning of the College.

- The faculty members and postgraduate students are encouraged to publish research papers in reputed journals. On publication of the same a copy is kept in the Central Library for general circulation.
- The faculty members are encouraged to apply for minor and major research project grants to UGC. They also undertake research projects sanctioned by other authorities such as WBDST, DST, DBT, CSIR etc.
- The College publishes a peer-reviewed academic journal ‘Aureole’ since 2009. It is gaining importance among faculty members as the number of articles published in the journal shows a sharp upward trend. Table below gives an account of this.

Year	Volume	No. of articles
2009	Vol.1	08
2010	Vol.1	07
2011	Vol.1	08
	Vol. 2	12
2013	Vol.1	15
2014	Vol.1	19
	Vol. 2	15

- Online transparent admission through SBI e-connect is introduced. It has made the entire process easy and less time-consuming for stake holders.
- Admission is conducted strictly on the basis of merit and as per government regulations.
- The college has introduced the following software programmes for financial management during the years that have created noticeable impact on the functioning of the college.

Sl. No.	Name of the Software	Purpose	Developed by
1	COSA	Pay Roll	NIC
2	E-Pradan	Accounting system	CMC
3	SBI e-connect linked e-fill up	Online admission	ITS

- The Central Library of the college has been upgraded with the installation of the following software.

Sl. No.	Name of the Software	Purpose	Developed by
1	LibSys	Digital cataloguing	LibSys
2	Inflibnet	Surfing for journals and periodicals	UGC

- The College library has an arrangement for preservation of rare books, documents and valuable office records. It is done by Fumigation chamber treatment, lamination and digitization technique, as per necessity.

- Career Counselling Cell has been established which organizes seminars and invited talks by specialists. PG and UG students have received a special grooming session in 2014-15 Session, which has been immensely helpful for their further advancement in career.
- In order to stay relevant with time the College is going to unveil “Web linked Mobile Android App” that would help in the seamless dissemination of information among all stakeholders for academic and administrative purposes.
- The College pays close attention to the needs of the physically challenged students. Ramps and rails have been constructed in both the Main and Annex buildings in the college for the physically challenged persons and a specialized toilet for them has also been constructed. Provision for a wheelchair has also been made.

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 College.

BEST PRACTICE- I

1. **Title of the Practice:** Teaching-learning enhancement through continuous evaluation and innovative practices/methods
2. **Objectives of the Practice:**
The teaching-learning-evaluation has foremost importance in achieving academic excellence of an institute. An institute is known by its high quality of teaching.
3. **Intended Outcome**
 - Achieving a high quality teaching-learning system enhanced by the regular internal academic audit.
 - Providing a quality education to each and every student so that he/she can contribute remarkably in the field of higher education as well as for social wellbeing.
 - Making the students well acquainted with the modern tools of higher learning and to generate within them an interest for research and pursuit of academic excellence.

4. The Context

Barasat Government College is a pioneering educational institute in the district of North 24 Parganas. Being located in the District Head Quarter, it draws the attention of a large student population, a considerable percentage of whom hail from the minorities and economically backward communities of society. Under the circumstance, the college needs to build up an inclusive system so that the first or second generation learners can get maximum benefit from the Institution. Moreover, the college runs four post graduate departments. Therefore, it is imperative to maintain qualitative excellence in teaching-learning and research methodology.

5. Practice

Counselling, guidance and orientation for the students and their parents seeking admission to the college is conducted by the teachers.

- A feedback based teaching-learning-evaluation system by the principal stakeholders of the college has been developed. Three types of such evaluations are in vogue. These are-
 - i) Evaluation of each teacher by the students.
 - ii) Evaluation of the College by the students.
 - iii) Evaluation of the College by the parents of the students.

Feedbacks are analyzed regularly and statistically and the outcomes are circulated among the teachers and other concerned personnel for their awareness and improvement.

- The Internal Academic Audit is conducted at the end of each academic year. The outcome is discussed with the Faculty members. If any short-fall is detected the concerned teacher is intimated about the same. Corrective measures are taken whenever required.
- Projector-based teaching in E-class rooms is in practice in most of the departments.
- Study tour/educational excursion of students of different departments as extra-curricular programmes and preparation of report in the form of videography etc. are carried out by the students.
- Both at the UG and PG level participative learning, interactive sessions, student seminars, case studies, project work, assignments, problem-solving exercises, practical/field work and use of audio-visual teaching aids are regularly practiced.

- UGC funded remedial courses for SC, ST, OBC and minorities are conducted. The details are given below.

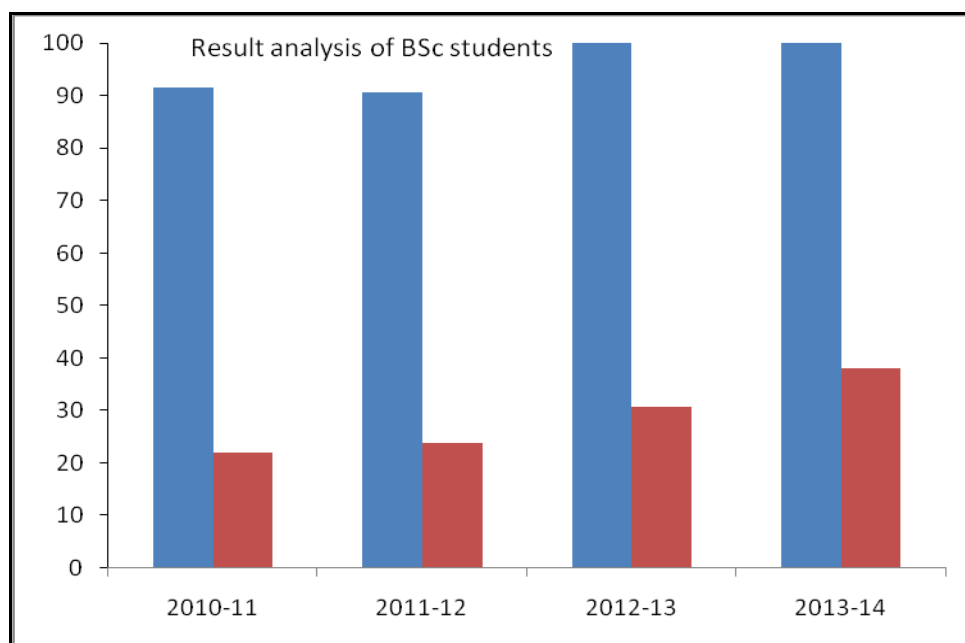
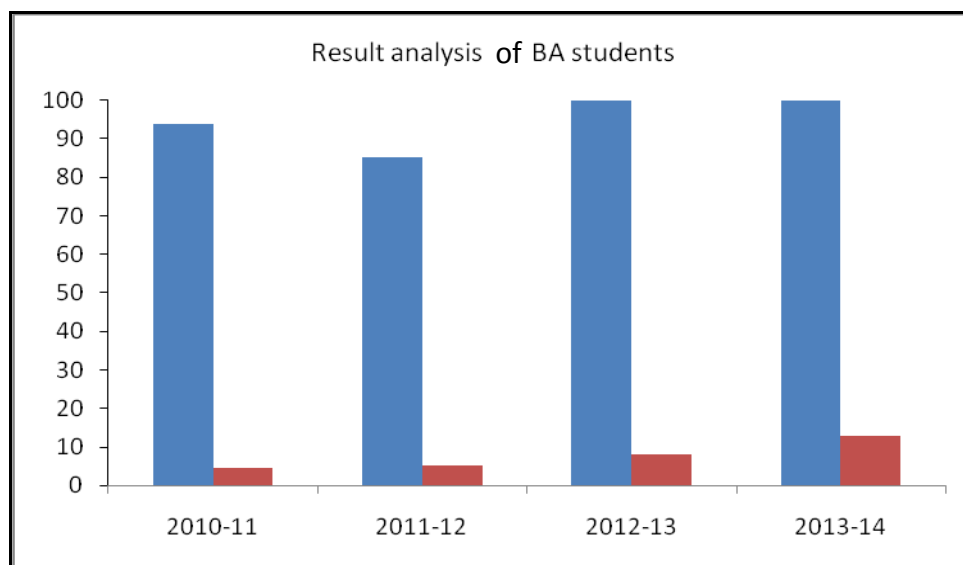
Subject	2010-2011 Fund Allocated (Recurring) Rs.1,00,000/-		2011-2012 Fund Allocated (Recurring) Rs.4,20,000/-		2012-2013 Fund Allocated (Recurring) Rs.1,50,000/-		2013-2014 (Fund yet to be received)		2014-2015 (Fund yet to be received)	
	Number of classes held		Number of classes held		Number of classes held		Number of classes held		Number of classes held	
	UG	PG	UG	PG	UG	PG	UG	PG	UG	PG
English	30		80		35		30		40	
Geography	35		146		35		32		35	
History	35		179		50		50		60	
Philosophy	30		100		30		30		35	
Political Science	25		30		30		30		35	
Sanskrit	20		95		30		30		30	
Botany	40	20	141	176	35	35	30	30	40	40
Chemistry	50		100		40		40		40	
Mathematics	30		80		25		25		20	
Physics	20	10	20	14	20	15	20	20	20	15
Zoology	30	20	100	140	37	33	35	35	45	35
Total	345	50	1071	330	367	83	352	85	400	90

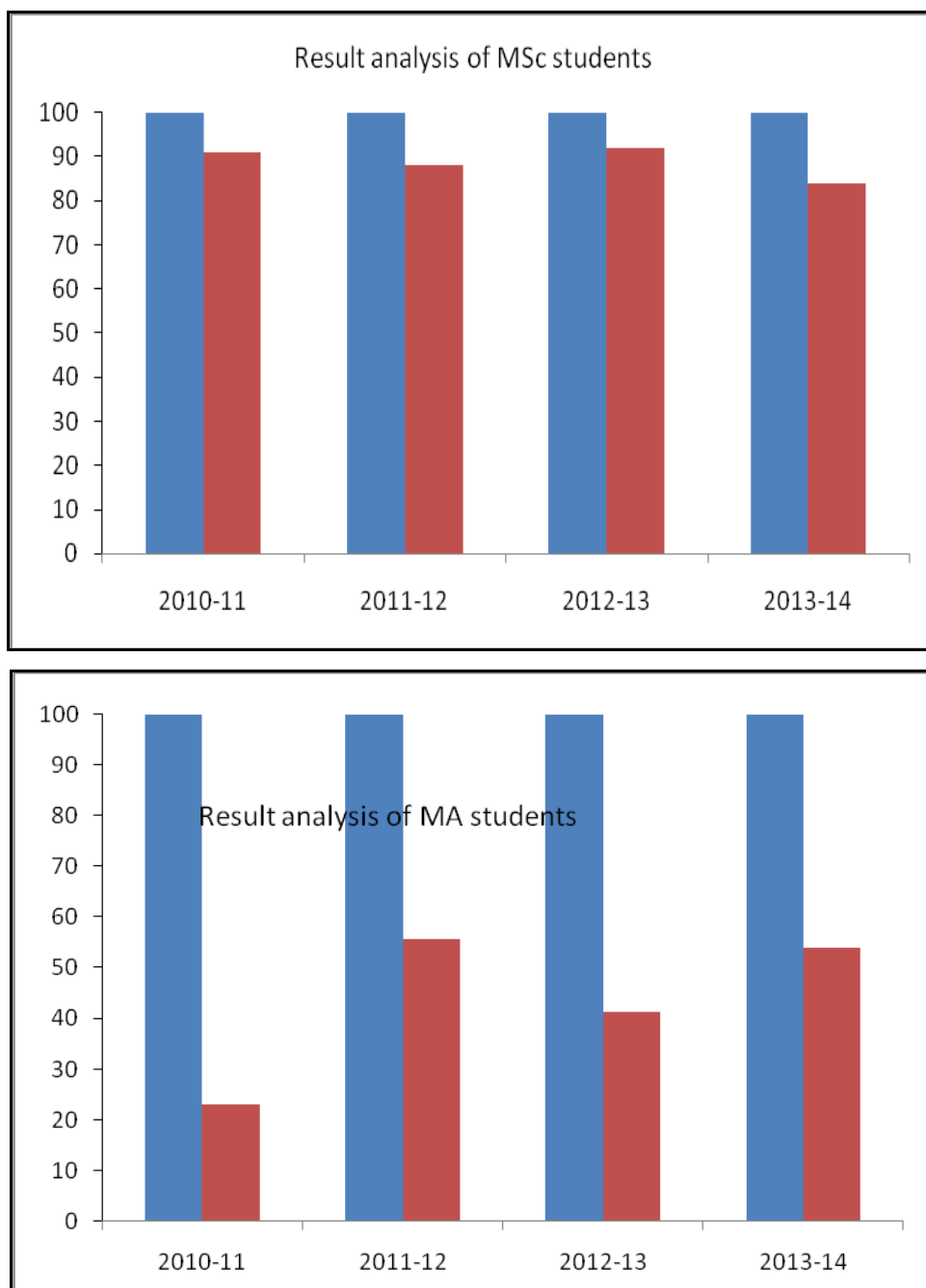
- The College, in partnership with NIELIT Computer centre, provides mandatory basic computer training course to the students, to improve their soft skills.
- Apart from the college Central library, all the departments have their own Seminar libraries to provide a space for students to carry out their intensive studies. Internet access points at several locations supplements the self-learning needs of the students.
- Most of the departments organize invited lectures/talks regularly.
- Project, dissertation, students' seminar are mandatory in the PG programmes. These are also conducted in the under graduate programmes, which helps in inculcating and maintaining a research culture.
- Hands-on training of different instruments, gadgets and software is imparted to both PG and UG students.

6. Evidence of Success

- Students' performances in the University Examinations are remarkably good. Most of the University toppers are students of this institution.
- Study has revealed that Students prefer this College over the nearest University for pursuing their post-graduation courses because of its –
(i) proficient teaching (ii) excellent infrastructure (iii) prime location.

The evidence of success of the students in the University examinations are as follows:





X – axis → The Academic Years

Y – axis → The % relative to the No. of candidates appeared in the Examination.



→ % of the students passed in the Examination.



→ % of the students who have secured First Class.

- A large number of girl students from the minority community graduates from the College every year. It is a good evidence of providing higher education to the first-generation learners from the Minority sections.

7. Problems encountered and Resources required

- For infrastructural development dependence on PWD for civil and electrical works.
- Dependence on Govt. resources/funds.
- More e-class rooms need to be developed.
- As it is a Government college, the scope of Fund generation is limited.
- Discontinuation of programmes by students, especially in the science departments, affects the teaching-learning methodology considerably. This occurs as many students leave if they succeed in the JEE, IIT, Medical and similar competitive examinations. Students leaving the programmes in mid-session affects the consistency of the teaching process.
- A good number of students are first generation learners, who come from economically as well as socially backward sections. At times they find it difficult to cope with the demands of higher education.
- Routine transfer of teachers highly affects the continuation/ consistency of the teaching-learning-evaluation system.

BEST PRACTICE- II

1. Title of the Practice: Protection of environment and practicing ecological inclusion.

The Institution holds environmental ethics in high regard and wishes to achieve through all its practices a holistic response to the problem of environmental degradation.

2. Objectives of the Practice

The main aim of Environment Protection and Nature Cell is to encourage the young students to be aware and actively participate in actions connected with the conservation of nature, while considering its utilitarian value, and to make them aware of the ill effects of environmental degradation and ecological imbalance.

3. The Context

The hazards emanating from exploiting the environment is an undeniable reality of the present time. Under the circumstances, propaganda towards a general awareness about nature is not sufficient, but extensive environment related activities are needed. The College is situated in the heart of the town. The cleanliness of the campus, beautification and keeping it free from pollution are imperatives. In addition, the college must play a role in generating environmental consciousness in the region.

4. Intended Outcome

- To create environment awareness among the students and staff of the college.
- To deliver consultancy services to local agricultural and fish farmers for eco-friendly use of their land and pond. For example, scientific treatment of pond situated inside the ‘Kishalay Home’ for boys, adjacent to the college.
- Provide consultancy services to the local civic bodies for disposal of waste material of the city market and areas and for the protection of nature in the surrounding areas.
- Steps are constantly taken to create an eco-friendly campus.
- To provide consultancy on different Health issues (spread of malaria, testing of Thalassemia) to the community by organizing medical camps.
- Consultancy services towards different ‘Animal Support’ groups.

5. Practice

An ‘Environment Protection and Nature Cell’ was established in the year 2013 and Dr. Manju Mandal (*Executive committee member of The Calcutta Society for Prevention of Cruelty to Animals, Member of World Wide Fund for Nature, Advisory Member of Animal Support Group, Dum Dum*), Associate Professor of Bengali was nominated as its convenor.



***Photograph 7.2:** Stray mongrels being vaccinated under the guidance of members of nature cell*

- The committee along with Successor's Elevating Forum organized an awareness programme related to Safe handling/usage/saving of LPG domestic Gas on 19.08.2013. An interactive session and a Quiz Competition was also held after the programme.

Honorable Speakers were:-

1. Mr. Prasun Kumar Roy; Secretary, Successor's Elevating Forum.
2. Mr. P.K. Ghosh; Sales Manager, Indane LPG domestic Gas.

No. of Participant Students: - 51

No. of Participant Teachers: - 05

- The committee instills awareness among the youngsters through day to day actual practice and observance like conservation of water, energy (electricity), proper use of waste bins etc.
- The 'Solid Green waste' generated within the College is decomposed by the vermicomposting method under the supervision of Dr. D Chakraborty, Senior Faculty of the department of Zoology.
- The NSS unit of the college organizes Thalassemia detection test for students and teachers in collaboration with School of Tropical Medicine, Kolkata.
- Blood donation camps are organized by the Students' Union and the NSS unit of the college.

- The NSS unit of the college provides social service as outreach activity to the nearby Kishalaya Home for the children, run by the Govt. of West Bengal.
- The NSS unit of the college organized an awareness programme on “Protection of Child Rights” in collaboration with West Bengal Commission for protection of child rights.

6. Evidence of Success

- In the years 2013 and 2014, the College in collaboration with Calcutta National Medical College organized Kala-azar Detection Camp led by Dr. Madhumita Manna, Associate Professor of Zoology. The purpose of the camp was to cater to the poor people of the Kala-azar endemic zones of West Bengal and adjoining Jharkhand state in the form of check up for detection of Kala-azar among them. In 2013, the team organized the camps at Maheshtala (Birbhum) and Pakuria (Jharkhand) in collaboration with Lion’s Club of Murarai and Lion’s Club of Rampurhat. Next year, camps were organized in collaboration with another NGO at Beroil, Kushmandi, Dakshin Dinajpur, Maheshtala (Birbhum), Hatiara Missionary School (Birbhum), Rajgram Battala (Birbhum) and Pakuria (Jharkhand) for awareness of the local people and for detecting new pockets of Kala-azar. Dr. Anjan Kumar Das, Associate Professor, Calcutta National Medical College was an important member of the team.



Photograph 7.3: Beroil Camp, Kushmandi, Dakshin Dinajpur District on 24th March, 2014



Photograph 7.4: Rajgram Battala Camp, Birbhum District on 25th March 2014

- The College has delivered expert consultancy services for nature protection, e.g. the DFO of North 24 Parganas and a local NGO sought expert view to preserve old road side rain trees in the district. Teachers of the College, led by the Head of the Department of Botany, gave detailed report to the district authority in due course.
- Barasat Government College adopts a scientific as well as a humanitarian approach towards the problem of stray dogs. Camps were organized to de-worm a number of these dogs for the purpose of ABC (Animal Birth Control) and such mongrels were vaccinated accordingly. The vaccination camp for the remaining stray dogs is a regular feature of the college. All the neighboring dogs are sterilized under the careful monitoring of our 'Environment Protection and Nature Cell'. These dogs have all been returned to their original environment after the ABC programme as per norms (Animal Birth Control: Dogs control rules GSR 816(E), dated 2nd November 2001 of the Prevention of Cruelty to Animal Act 1960 vide notification of Ministry of Culture, Government of India). Three of them were operated by Love & Care NGO on 23rd July 2014 and other two were operated by Animal Support Group Society on 15th October 2014. As they are vaccinated against Rabies and other diseases; they are now familiar, friendly, healthy and harmless.

7. Problems encountered and Resources required

- Due to the work load for teaching and research, the faculty members find it difficult to spend more quality time in such social outreach services.
- There exists a lack of consciousness regarding environmental matter even among the educated mass. Therefore, a constant effort is required to spread the environmental message and awareness.
- These activities can be accelerated even more, if a handsome Government fund is available and if the local civic bodies come forward to assist us in greater measure.

8. Contact Details

- **Name of the Principal:** Dr. Subhasis Dutta
- **Name of the Institution:** Barasat Government College **City:** Barasat, West Bengal
- **Pin Code:** 700124
- **Accredited Status:** NAAC Cycle-I Accreditation (2009): “B” Grade (CGPA: 2.60)
- **Work Phone :** 033-25523365 **Fax:** 033-25625053
- **Website:** www.bgc.org.in **E-mail:** sdutta7160@gmail.com
- **Mobile:** 9433563658

PART-E

EVALUATIVE REPORTS OF THE DEPARTMENTS

1. DEPARTMENT OF BENGALI

1. Name of the department: Bengali

2. Year of Establishment: UG- 1950, PG-2009

3. Names of Programmes / Courses offered (UG, PG, M.Phil., Ph.D., Integrated Masters, Integrated Ph.D., etc.):

UG (BA Bengali Hons and Bengali Gen Course)

PG (Bengali)

4. Names of Interdisciplinary courses and the departments/ units involved:

None

5. Annual/ semester/ choice based credit system (programme wise):

B.A. Bengali Honours: Annual Examinations (Part I, Part II and Part III)

M.A. Bengali: Semester System (1st, 2nd, 3rd, 4th Semester + internal assessment)

6. Participation of the department in the courses offered by other departments:

Bengali is offered as a general Subject for the following Honours

Subjects: - English, History, Political Science, Sanskrit and Philosophy

Bengali is also offered as a subject in the B.A. General Course, in the morning section.

7. Courses in collaboration with other universities, industries, foreign institutions, etc.:

None

8. Details of courses/ programmes discontinued (if any) with reasons:

None

9. Number of teaching posts:

POSTS	SANCTIONED	FILLED
Professor ¹	01	01
Associate Professor	08	03
Assistant Professor		03

¹ The post has been transferred temporarily from the Department of Zoology.

10. Faculty profile with name, qualification, designation, specialization (D.Sc/ D.Litt./ Ph.D./ M.Phil. etc.):

NAME	QUALIFICATION	DESIGNATION	SPECIALISATION	No. of YEARS EXPERIENCE	No. OF PhD STUDENTS
A) CURRENT FULL TIME FACULTY					
Dr. Dilip Kumar Naha	Ph.D.	Professor	Drama, Linguistics	32 Years	3
Dr. Manju Mandal	Ph.D.	Associate Professor	Tagore Literature	29 years	0
Dr. Rita Ghosh	Ph.D.	Associate Professor	Folk Culture and Literature	22 years	0
Sri Sandip Kumar Patra	M.A. Regd. for Ph.D. in 2009	Associate Professor	Comparative Literature	24 Years	0
Sri Manas Kundu	M.A.	Assistant Professor	Literary theory and Comparative Literature	14 years	0
Md. Abdur Rafik Sardar	M.A. M.Phil.	Assistant Professor	Comparative Literature	08 years	0
Smt. Piali Khan	M.A.	Assistant Professor	Medieval Literature	11 months	0
B) FULL TIME FACULTY TRANSFERRED (Since October 2010)					
Dr. Sudakshina Ghosh	Ph.D.	Associate Professor	Folk literature	19 yrs.	0
Sri Kosalaya Jana	M.A. Regd. For Ph.D.	Assistant Professor	Comparative Literature	14 yrs.	0
Dr. Tarun Kanti Roy	Ph.D.	Associate Professor	Novel and short stories	29 years	2
Dr. Tapasree Chattopadhyay	M.A. Ph.D.	Associate Professor	Linguistics	28 years	0
Smt. Debjani Sengupta	M.A.	Assistant Professor	Comparative Literature	14 yrs.	0
Sri Sumanta Mukhopadhyay	M.A.	Assistant Professor	Comparative Literature	14 years	0
Dr. Rupa Banerjee	M.A. Ph.D.	Associate Professor	Linguistics	29 Years	0

NAME	QUALIFICATION	DESIGNATION	SPECIALISATION	No. of YEARS EXPERIENCE	No. OF Ph. D STUDENTS
c) PART-TIME FACULTY/GUEST FACULTY (Day)					
Smt. Aparna Dhar	M.A. SET Qualified	Part Time Teacher	Tagore Literature	06 years	0
Smt. Paramita Chaudhury	M.A. NET Qualified	Part Time Teacher	Folk culture and Literature	06 years	0
Smt. Paramita Bhattacharya	M.A. NET Qualified	Part Time Teacher	Linguistics	05 Years	0
Smt. Shatabdi Sadhu	M.A. NET Qualified	Part Time Teacher	Modern Literature	06 years	0
Sri. Amitava Ghosh	M.A.	Retired. Assistant Professor	Tagore Literature	Post Retirement Service in Barasat Govt. College 7years	0
d) PART-TIME FACULTY/GUEST FACULTY (Morning)					
Smt. Swati Paul	M.A. NET Qualified	Part Time Teachers	Modern fiction	12 years	
Smt. Tanusree Das	M.A. NET Qualified	Part Time Teachers	Modern Literature	07 Years	
Smt. Sonali Pal	M.A.	Part Time Teachers	Folk Literature	05 Years	

11. List of senior visiting faculty:

Sl. No.	Name of the Resource Person / Group	Date	Topic	Class
1	Dr. Rajashri Bhattacharya	18.03.2014	Rabindranather Gaan O Raktakarabi	All P.G. students
2	Dr. Nrisingha Prasad Bhaduri	12.11.2014	Megdhoot	Bengali whole Dept.
3	Aharnish Patrika goshthi	12.11.2014	Megdoot Path sanchalana	Bengali whole Dept.
4	Pabitra Sarkar	28.11.2014	Bengali Drama	All P.G. students

12. Percentage of lectures delivered by temporary faculty: PER WEEK

Name of temporary faculty with Qualification	Designation	Prog P.G & Hons. + Gen	Academic Session Taught	Total No. of classes in the Dept. Routine (PER WEEK)		Total	Total No. of classes taught by temporary faculty (PER WEEK)		Total	Percentage of lectures delivered
				P.G & Hons.	Gen.		P.G & Hons	Gen.		
Sri Amitabha Ghosh	Part-time Faculty	P.G & Hons. + Gen	2011-12	141	9	150	8	-	8	5.33%
			2012-13	140	8	148	8	-	8	5.40%
			2013-14	141	9	150	8	-	8	5.33%
			2014-15	140	9	149	8	-	8	5.36%
Smt. Paramita Bhattacharya	Part-time Faculty	P.G & Hons. + Gen	2011-12	141	9	150	11	1	12	8.00%
			2012-13	140	8	148	11	2	13	8.78%
			2013-14	141	9	150	10	2	12	8.00%
			2014-15	140	9	149	12	1	13	8.72%
Smt. Paramita Choudhury	Part-time Faculty	P.G & Hons. + Gen	2011-12	141	9	150	9	1	10	6.66%
			2012-13	140	8	148	9	2	11	7.43%
			2013-14	141	9	150	9	2	11	7.33%
			2014-15	140	9	149	8	2	10	6.71%
Smt. Shatabdi Sadhu	Part-time Faculty	P.G & Hons. + Gen	2011-12	141	9	150	8	2	10	6.66%
			2012-13	140	8	148	9	2	11	7.43%
			2013-14	141	9	150	8	2	10	6.66%
			2014-15	140	9	149	9	2	11	7.37%
Smt. Aparna Dhar	Part-time Faculty	P.G & Hons. + Gen	2011-12	141	9	150	7	2	9	6.00%
			2012-13	140	8	148	9	1	10	6.75%
			2013-14	141	9	150	9	1	10	6.66%
			2014-15	-	-		-	-		-

13. Student-Teacher Ratio (programme wise):

Academic Session	Programme	No. of Students	No. of Teachers (at the beginning of Session)	Student: Teacher Ratio
2010-2011	UG Hons.	200	10	20:1
2011-2012	UG Hons.	210	9	23:1
2012-2013	UG Hons.	215	10	22:1
2013-2014	UG Hons.	220	12	18:1
2014-2015	UG Hons.	206	12	17:1

14. Number of academic support staff (technical) and administrative staff; sanctioned and filled:

Post	Sanctioned	Filled
Academic support staff (technical)	0	1*
Administrative staff	0	0

* Mrs. Arpita Das has been acting as support staff on Daily Rate Basis in Bengali Dept. since 3rd November 2009.

15. Qualifications of teaching faculty with D.Sc./D.Litt./Ph.D./M.Phil./PG:

Highest Qualification	No. of Teaching Faculty (Existing)
D.Sc./D.Litt.	Nil
Ph.D.	3
M. Phil.	1
PG	3

16. Number of faculty with ongoing projects from a) National b) International funding agencies and grants received: None**17. Departmental projects funded by DST-FIST, UGC, DBT, ICSSR, etc. and total grants received:** None**18. Research Centre / facility recognized by the University:** None**19. Publications:**

Total No. of Publications of the teachers of the Department during the teachers' tenure (2010-15) at Barasat Government College) = **43**

Publications details of Faculty: Detailed information has been given in **Annexure -I**

20. Areas of consultancy and income generated:

- A) A proposal has been received from a neighbouring Children-Home “Kishalaya” for grooming their children in all kinds of Cultural activities of the Home (such as poem recitation, staging dance drama, songs, drawing, etc.). We are ready for extending our expertise totally free of cost. The teachers have expressed their willingness in this regard.

21. Faculty as members in

- a) National committees b) International Committees c) Editorial Boards d) other organizations

NAME OF FACULTY	National committees/ International Committees /Editorial Boards	Others
Prof. Dilip Kr. Naha		1) Member of Executive Council of West Bengal State University. 2) Member of PG-BOS of West Bengal State University & other seven Colleges.
Dr. Manju Mandal	Member of Editorial Board, AUREOLE (Academic Journal of Barasat Govt. College)	1. Member of World Wide Fund for Nature India 2. Executive Committee Member of The Calcutta Society for prevention of cruelty to animals.
Md Abdur Rafik Sardar		1) Member, UG-BOS of West Bengal State University 2) Member, Syllabus Committee of West Bengal Madrasa Board

22. Student projects: see Annexure 1

- b) Percentage of students placed for projects in organizations outside the institution i.e. in Research laboratories/Industry/ other agencies: None

23. Awards/ Recognitions received by faculty and students: None**24. List of eminent academicians and scientists/visitors to the department:**

- A) Prof. Pabitra Sarkar, Former Vice-Chancellor of Rabindra Bharati University.
B) Prof. Pinakesh Sarkar
C) Prof. Nrisinghaprasad Bhadhuri, Rtd. Professor, Scholar of Indian Epics & Purans
D) Dr. Rajashree Bhattacharya: Associate Professor of Bengal Music College, Calcutta University.

25. Seminars/Conferences/Workshops organized & the source of fundinga) **National:** Nilb) **International:** Nil**26. Student profile programme/ course wise:**

Name of the Course/programme	Applications received	Selected	Enrolled		Pass percentage
			*M	*F	
2012-2013 UG Hons.	949	63	17	46	80%
2013-2014 UG Hons	1174	72	19	53	80%
2014-2015 UG Hons	1074	71	24	47	--
2015-2016 UG Hons	2566	71	25	46	--

*M = Male *F = Female

27. Diversity of Students:

Name of the Course	% of students from the same state	% of students from other States	% of students from abroad
UG Bengali Hons.	100%	0%	0%
PG course in Bengali	100%	0%	0%

28. How many students have cleared national and state competitive examinations such as NET, SLET, GATE, Civil services, Defence services, etc.

Name of the Competitive Examination	No. of students passed (in last five years)
School Service Commission	07 (data incomplete)
Kolkata Police lady constable	01

29. Student progression: (2011-2015)

Student progression	Against % enrolled
UG to PG	80%
PG to M. Phil.	Data not available
PG to Ph. D.	Data not available
Ph.D. to Post-Doctoral	Data not available
Employed • Campus selection • Other than campus recruitment	--
Entrepreneurship/ Self-employment	---

30. Details of Infrastructural facilities

a) **Library:** The Departmental Seminar library is very rich. The students are allowed to issue two books at a time. There is also a well-decorated reading room with a computer with internet facilities.

b) **Internet facilities for Staff & Students:** Two Desk-top computers have been set up for staff & students.

c) **Class rooms with ICT facility:** One

d) **Laboratories:** Nil

31. Number of students receiving financial assistance from college, university

Year	Full-free Studentship	Half-free Studentship
2011-12	20(M-9, F-11)	15(M-3, F-12)
2012-13	21(M-10, F-11)	16(M-4, F-12)
2013-14	3(M-0, F-3)	17(M-5, F-12)
2014-15	12(M-2, F-10)	13(M-4, F-9)

M= Male, F= Female

32. Details on student enrichment programmes (special lectures/ workshops/ seminar) with external experts:

Student Enrichment Programme	Held on	Title	Funding Agency	External Expert/Resource Person/ Speaker
Workshop	02.12.14	Folk Song of Bengal	PG Department of Bengali And District Information & Cultural Affairs	UJAN – A group of Folk Band
Seminar	18.03.14	Rabindranather Gaan O Raktakarabi	PG Department of Bengali	Dr. Rajashree Bhattacharya Associate Professor of Bengal Music College, Calcutta University.
	12.11.14	Megdhoot	PG Department of Bengali	Dr. Nrisingha Prasad Bhaduri Rtd. Professor , Scholar Of Indian Epics & Purans
	12.11.14	Megdoot Path sanchalana	PG Department of Bengali	Aharnish Patrika Goshthi- A Group Of Little Magazine
	13.11.14	Romance & Novel	PG Department of Bengali	Dr. Bishwajit Roy Associate Professor of Visva Bharati University
	28.11.14	Bengali Drama	PG Department of Bengali	Prof. Pabitra Sarkar Former Vice-Chancellor of Rabindra Bharati University.

33. Teaching methods adopted to improve student learning:

- A) Apart from Class-room teaching with conventional method with 'Chalk & Talk' the teachers are also using O.H.P for creating interest
- B) Tutorial classes, class tests are being frequently arranged
- C) The teachers have been arranging educational tours to neighbouring places which have much historical & literary significance.
- D) Film-shows are arranged if and when necessary
- E) work-shops with many Resource persons are arranged time to time.

34. Participation in Institutional Social Responsibility (ISR) and Extension activities:

One teacher of this Department has been acting as coordinator of the NSS unit of this College. Almost all the students of Bengali Dept. are involved with it.

35. SWOC analysis of the department and Future plans:

Strengths	Weaknesses
1. A good number of meritorious students are admitted in this Department every year. The demand for admission is very high. The ratio of no. of seats and no. of application is 1:32	1) So many poor & backward-class students come from remote areas every year. They are devoid of their basic requirements. Some students are struggling for their livelihood. These cases are very challenging to us. No doubt, we extend our all possible help to them.
2. Rich Faculty of experienced teachers and new Fresher young bright teachers with various specialization	
3. Sufficient class rooms and a separate Dept. premise	
4. Rich Dept. Library, sufficient infrastructural facilities.	
5. Very good result of the students with high positions in Final exams of W.B.S.U.	

Future plans:

1. Introducing coaching classes for NET/ SET/SSC/WBCS candidates in Bengali
2. Publication of Departmental Journal
3. Introducing common programme in collaboration with all Language Departments (eg. English and Sanskrit).

2. DEPARTMENT OF BOTANY

1. Name of the department: BOTANY
2. Year of Establishment: 1978 (Biology); 1996 (Botany Honours);
2003 (M.Sc. Botany)
3. Names of Programmes / Courses offered (UG, PG, M. Phil., Ph.D., Integrated Masters, Integrated Ph.D., etc.):
UG: B.Sc. Botany Honours and Botany General
PG: M.Sc. Botany
4. Names of Interdisciplinary courses and the departments/ units involved: Nil
5. Annual/ semester/ choice based credit system (programme wise):
B.Sc. Botany Honours: Annual Examinations (Part I, Part II and Part III);
M.Sc. Botany: Semester Examinations (Sem I, Sem II, Sem III & Sem IV)
6. Participation of the department in the courses offered by other Departments:

Botany is offered as a General Subject for Zoology Honours.
7. Courses in collaboration with other universities, industries, foreign institutions, etc.:
N.A.
8. Details of courses/ programmes discontinued (if any) with reasons: N.A.
9. Number of Teaching Posts:

POSTS	SANCTIONED	FILLED
Professor	01	01
Associate Professor	09	03
Assistant Professor		06

10.

A. Faculty profile with name, qualification, designation, specialization (D.Sc./ D.Litt./ Ph.D./ M.Phil., etc.):

Name	Qualification	Designation	Specialization	Experience
Prof. Timir Baran Jha (Retired in June, 2014)	Ph. D.	Professor (WBSES)	Cytogenetics and Plant Biotechnology	34+ years
Prof. Jukta Adhikari (Joined in July, 2015)	Ph. D.	Professor (WBSES)	Plant Physiology and Biochemistry	30 years
Dr. Partha Roy (Transferred on 15.06.2015)	Ph. D.	Associate Professor (WBES)	Palaeobotany	30 years
Dr. Kunal Sen	Ph. D.	Associate Professor (WBES)	Plant Physiology and Biochemistry	28 years
Dr. Nirmalendu Das	Ph. D.	Associate Professor (WBES)	Microbiology	18 years
Sri Benudhar Mandal	M.Sc.	Associate Professor (WBES)	Microbiology	16 years
Dr. Narayan Chandra Karmakar	Ph. D.	Assistant Professor (WBES)	Ecology	14 years
Dr. Saikat Naskar	Ph. D.	Assistant Professor (WBES)	Taxonomy of Angiosperms	12 years
Dr. Paramita Nandi (Transferred on 15.06.2015)	Ph. D.	Assistant Professor (WBES)	Cytogenetics	7 years
Dr. Subhra Talai (Mukhopadhyay)	Ph. D.	Assistant Professor (WBES)	Pharmacognosy	14 years
Sri. Dibyendu Mahanty	M.Sc.	Assistant Professor (WBES)	Plant Physiology, Biochemistry & Molecular Biology	5 years

B. GUEST AND PART TIME FACULTIES:

Name	Qualification	Designation	Specialization	Experience
Prof. Timir Baran Jha (WBSES)	Ph. D.	Guest faculty (Since July 2014)	Cytogenetics and Plant Biotechnology	34 years +
Dr. Manas Ranjan Majumder (WBSES)	Ph. D.	Guest faculty (Retd. Principal of Govt. Colleges)	Palaeobotany	33 years +
Dr. Arun Kumar Bandopadhyay	Ph.D.	Guest faculty (Retd. Associate Professor)	Plant Physiology and Biochemistry	30 years +

Dr. Anuradha Bandopadhyay	Ph. D.	Part-time teacher	Mycology & Plant Pathology	7 years
Smt. Sohini Gupta (Ganguli)	M.Sc.	Part-time teacher	Cytogenetics	6 years

C. PH.D. AWARDED OR ENROLLED STUDENTS UNDER THE GUIDANCE OF THE FACULTY MEMBERS (2010-2015):

Name of Faculty	Number of Students Enrolled for Ph.D.	Number of Students Awarded Ph.D
Prof. Timir Baran Jha	0	4
Prof. Jukta Adhikari	0	3
Dr. Nirmalendu Das	1	0
Dr. Parmita Nandy (Dutta)	0	1

11. List of visiting Professors and Academic Advisors:

- Prof. Niranjana Bhattacharya – MBBS, MD, MS, FICS, FSOG, FACS, D.Sc. – Dr. Subhas Mukherjee Chair Professor and Director General of ‘Stem Cell Science’, Govt. of West Bengal, Department of Regenerative Medicine & Translational Science, Calcutta School of Tropical Medicine, Kolkata – 700 073
- Prof. Andrew Burd – MB ChB, MD, FRCS, FHKAM –Centenary Professor, Calcutta School of Tropical Medicine, Kolkata – 700 073
- Prof. Amita Pal- Ph.D, FNA. SC. Emeritus Professor, Plant Biology Division, Bose Institute, Kolkata-700 054

12. Percentage of lectures delivered and practical classes handled (programme wise) by temporary faculty (Classes per week):

Name of temporary faculty with Qualification	Designation	Academic Session Taught	Total No. of classes in the Departmental Routine			Total No. of classes taught by temporary faculty			Percentage of lectures delivered		
			Hons.	Gen.	PG*	Hons.	Gen.	PG	Hons.	Gen.	PG
Prof. Timir Baran Jha	Guest Faculty	2011-12	94	15	62	-	-	-	-	-	-
		2012-13	98	15	62	-	-	-	-	-	-
		2013-14	94	15	62	3	-	6	3.19	-	9.67
		2014-15	95	15	62	3	-	6	3.15	-	9.67

Dr. Manas Ranjan Majumder	Guest Faculty	2011-12	94	15	62	-	-	-	-	-	-
		2012-13	98	15	62	-	-	6	-	-	9.67
		2013-14	94	15	62	-	-	6	-	-	9.67
		2014-15	95	15	62	-	-	6	-	-	9.67
Dr. Arun K. Bandopadhyay	Guest Faculty	2011-12	94	15	62	-	-	2	-	-	3.22
		2012-13	98	15	62	-	-	2	-	-	3.22
		2013-14	94	15	62	-	-	2	-	-	3.22
		2014-15	95	15	62	-	-	2	-	-	3.22
Dr. Anuradha Bandopadhyay	Part-time Teacher	2011-12	94	15	62	5	1	6	5.31	6.66	9.67
		2012-13	98	15	62	5	1	6	5.10	6.66	9.67
		2013-14	94	15	62	6	2	6	6.38	6.66	9.67
		2014-15	95	15	62	6	2	6	6.31	6.66	9.67
Smt. Sohini Gupta	Part-time Teacher	2011-12	94	15	62	7	5	2	7.44	33.33	3.22
		2012-13	98	15	62	7	5	2	7.14	33.33	3.22
		2013-14	94	15	62	7	5	2	7.44	33.33	3.22
		2014-15	95	15	62	7	5	2	7.36	33.33	3.22

*Classes per week in PG Sem I= 30; Sem II= 32; Sem III= 32 & Sem IV= 30. The classes of Sem I & III are scheduled in July to January of each year and Sem II & IV classes are scheduled in February to June of each year. Prof. T.B. Jha takes classes of PG Sem II & IV and B.Sc. 3rd year. Dr. Manas Ranjan Majumder takes classes of PG Sem II and Dr. Arun Kumar Bandopadhyay takes classes of PG Sem III.

13. Student-Teacher Ratio (programme wise):

Academic Session	Programme	No. of Students	No. of Teachers (at the beginning of Session)	Student: Teacher Ratio
2010-2011	UG Hons.	83	9	9.22
2011-2012	UG Hons.	83	9	9.22
2012-2013	UG Hons.	89	9	9.88
2013-2014	UG Hons.	94	10	9.40
2014-2015	UG Hons.	91	8	11.37

14. Number of academic support staff (technical) and administrative staff; sanctioned and filled:

Post	Sanctioned	Filled
Academic support staff (technical)	4	3 + 2*
Administrative staff	0	0

*2 contractual staff

15. Qualifications of teaching faculty with D.Sc./D.Litt./Ph.D./M.Phil./PG:

Highest Qualification	No. of Teaching Faculty (Existing)
D.Sc./D.Litt.	0
Ph.D.	11
M. Phil.	0
PG	3

16. Number of faculty with ongoing projects from a) National b) International funding agencies and grants received:

The department is running Three projects; One major and two minors. All are funded by the UGC.

17. Departmental projects funded by DST-FIST, UGC, DBT, ICSSR, ICMR, etc. and total grants received: (2010-2015):**A.Ongoing Projects:**

Sl. No.	Project Title	Sponsoring Agency	Fund approved (Lakh)	Duration	Investigator
1	Karyo-systematic Analysis of Indian Lentils Through Fluorescent Chromosome Banding	UGC Major Research Project 2015	16 L	36 months	Prof. T.B. Jha P.I
2	Isolation, characterization and identification of pesticides (organophosphates) degrading phyllospheric bacteria with special reference to vegetables.	UGC minor project 2014	2.60 L	24 months	Mr. Benudhar Mandal
3	Comparative studies of Pleurotus fossulatus and other commercially cultivated oyster mushrooms (Pleurotus sp) with special reference to their yield, antioxidant and antimicrobial properties.	UGC minor project 2014	3.70L	24 months	Dr Nirmalendu Das
Total:			22.30 L		

B. Completed Projects:

Sl. No.	Project Title	Sponsoring Agency	Fund approved (Lakh)	Duration	Investigator
1	“Documentation of genetic and phytochemical variations and assessment of Immunomodulatory and anticancer activities of <i>Gymnema sylvestre</i> (retz)r.Br &S and newly described species <i>Gymnema kollimalayanum</i> Ramach & M.B Viswan, from Eastern India and Western Ghats”	ICMR	Approx. 50 L.	2012-2015	Prof. T.B. Jha (Co-PI)
2	Analysis of Important Bioactive Compounds and Genomic DNA Polymorphism in <i>Swertia</i>	CSIR	16.9 L	2009 - 2012	Prof. T.B. Jha
3	Detection and Chemical analysis of <i>myo</i> -inositol biosynthesis in some vascular cryptogams under <i>in vivo</i> and <i>in vitro</i> conditions.	UGC Major	7 L	2008-2011	Prof. J. Adhikari (PI), Prof. T.B. Jha (Co-PI)
4	Morphological and Histological Characterization and Cataloging of Diversity of Some Highly Salt Tolerant Species in Indian Sundarban Delta	UGC Minor Project	1.47 L	2009-2011	Dr. Saikat Naskar
5	An attempt to study the regulation of L- <i>myo</i> - inositol-1- phosphate synthase gene (INO1) in <i>Avicennia officinalis</i> in response to drought and salinity: a semi-quantitative approach.	UGC Minor Project	1.11 L	2010 - 2012	Dr. Paramita Nandi
6	Study of Algal biodiversity in and around Kolkata	UGC Minor Project	1.36 L	2011 - 2013	Dr. Subhra Talai (Mukherjee)
Total			77.76 L		

Grand Total: A + B = 22.3 L + 77.76 L = 100.06 L (Rs. One crore and six thousand only)

18. Research Centre / facility recognized by the University: N.A.

19. Publications of the Departmental Faculty Members (2010- 2015):

Total No. of Publications: **74**

❖ 53 in national and international journals

❖ 5 book chapters

❖ 16 conference papers

Publications details of Faculty are given in **Annexure 1**

A) SUMMARIZED LIST OF PUBLICATIONS OF THE FACULTY MEMBERS:

NAME OF FACULTY	No. of papers in Peer reviewed National /International Journal	No. of publications listed in Int. Data base	Monograph	Chapter in Books	Books Edited	Books With ISSN/ISBN No.	Citation Index	SNIP	SJR	Impact Factor	H- Index
Prof. Timir Baran Jha	22	22	0	1+1 (Jointly with Prof. Adhikari)	0	0	-	-	-	15.945	-
Prof. Jukta Adhikari	4	4	0	2	0	0	-	-	-	4.801	-
Dr. Nirmalendu Das	12	12	0	1 (Jointly with Dr. Naskar)	0	0	-	-	-	3.834	-
Sri Benudhar Mandal	2	2	0	0	0	0	-	-	-	0	-
Dr. Narayan Chandra Karmakar	2	2	0	0	0	0	-	-	-	0	-
Dr. Saikat Naskar	7	7	0	1	0	0	-	-	-	1.274	-
Dr. Paramita Nandy (Dutta)	2	2	-	1	0	0	-	-	-	2.389	-
Dr. Subhra Talai (Mukhopadhyay)	8	8	0	0	0	0	-	-	-	1.524	-

20. Areas of consultancy and income generated:

- ❖ Recently an expert committee was constituted including two numbers of Departmental teachers to look over the deterioration and damage of century long Rain trees near the District Magistrate office at Barasat. The committee has submitted their report to the authority.

21. Faculty as members in a) National committees b) International Committees c) Editorial Boards:

NAME OF FACULTY	National committees/International Committees /Editorial Boards....
Prof. Timir Baran Jha	<ul style="list-style-type: none"> • Member of International Association of Plant Biotechnology (IAPB, Formerly IAPTC and IAPTC&B) since 1978 • Elected Member of Plant Tissue Culture Association (India)
Prof. Jukta Adhikari	Life member of- <ul style="list-style-type: none"> • Society of Biological Chemists of India • Plant Physiology Forum of India Member of- <ul style="list-style-type: none"> • Clinical Research Ethics Committee, Calcutta School of Tropical Medicine, Kolkata • Technical and Research Committee, Biotechnology Department, Govt. of West Bengal
Dr. Nirmalendu Das	Life member of- <ul style="list-style-type: none"> • Indian Science Congress • Society of Biological Chemists of India • World Science Congress
Dr. Naryan Chandra Karmakar	Life member of- <ul style="list-style-type: none"> • Botanical Society of Bengal
Dr. Saikat Naskar	Life member of- <ul style="list-style-type: none"> • Botanical Society of Bengal, Kolkata • Plant Physiology Forum of India
Dr. Subhra Talai	Life member of- <ul style="list-style-type: none"> • Indian Science Congress • Plant Physiology Forum of India

22. Student projects:

a) Project works are allotted to all PG Semester IV students of the department under the guidance of their respective special paper teachers as the part of their curricula for partial fulfillment of M.Sc. in Botany. The project works are evaluated through seminar lecture. Their project dissertation and presentation carry 40 marks out of 200 marks in special papers.

Details of project works (title, name of the students, year and name of the guide) are given in

Annexure I.**b) Percentage of students placed for projects in organizations outside the institution i.e. in Research laboratories/Industry/ other agencies:**

10-20% students done their project work in collaboration with other organization, such as, ISI, Kolkata; Presidency University etc.

23. Awards/Recognitions received by faculty and students:

Sl. No.	Name of Faculty	Year	Award
1	Prof. Timir Baran Jha	2010	Nominated By the Indian National Science Academy (INSA) under International Collaboration programme in Kagoshima University, Japan
2	Dr. Subhra Talai Mukherjee	2012	Ph.D.
3	Dr. Narayan Chandra Karmakar	2013	Ph.D.
4	Dr. Saikat Naskar	2014	Ph.D.

24. List of eminent academicians and scientists/visitors to the department:

- Dr. Biswadev Bishayi, Professor, Department of Human Physiology and Immunology, University of Calcutta
- Dr. R.R. Rao, CSIR Emeritus Scientist, CIMAT.
- Prof. R.S. Upadhyay, Dept. of Botany, BHU
- Prof. A.K.Pal, Dept. of Botany, University of Calcutta
- Dr. Arunava Goswami, ISI, Kolkata
- Dr. Amita Pal, Emeritus Professor , Bose Institute, Kolkata
- Dr. Prabir Ghosal, ISI, Kolkata.

25. Seminars/Conferences/Workshops organized & the source of funding:**a) National:** 1 (in Collaboration with ISI, Kolkata)

THEME	LEVEL	FUNDING AGENCY	DATE	COLLABORATOR
<i>Emerging Trends in Plant Sciences</i>	National	UGC	14 th and 15 th July, 2011	Indian Statistical Institute, Kolkata

b) International: Nil

26. Student profile programme/ course wise:

Name of the Course /programme Botany Honours	Applications received	Selected	Enrolled		Pass percentage
			*M	*F	
2011-2012	335	30	9	21	100
2012-2013	322	34	14	20	100
2013-2014	376	32	12	20	100
2014-2015	351	25	7	18	100
2015-2016	478	45	15	30	95

*M = Male *F = Female

Name of the Course/programme Botany M.Sc.	Applications received	Selected	Enrolled		Pass percentage
			*M	*F	
2011-2012	105	25	8	17	100
2012-2013	123	25	8	17	100
2013-2014	115	25	6	19	100
2014-2015	112	27	7	20	100

*M = Male *F = Female

27. Diversity of Students:

Name of the Course	% of students from the same state	% of students from other States	% of students From abroad
B.Sc. Botany Honours and PG as in the last five academic sessions	100	0	0

28. How many students have cleared national and state competitive examinations such as NET, SLET, GATE, Civil services, Defense services, etc.?

Name of the Competitive Examination	No. of students passed (in last five years)
NET	2
GATE	2
JRF	3
School Service Commission	3
Food Corporation of India	2
Botanist of KMC	1
Bank	3
Rail	1
Private Sector	5

*Data from 2010-2015

29. Student progression: (2011-2015)

Student progression	Against % enrolled
UG to PG	About 30%
PG to M. Phil.	-
PG to Ph. D.	-
Ph.D. to Post-Doctoral	-
Employed • Campus selection • Other than campus recruitment	N.A.
Entrepreneurship/ Self-employment	-

30. Details of Infrastructural facilities

a) Library: The department has a well-stocked Seminar Library. At present, there are about 800 books. The students are allowed to borrow books for a fortnight.

b) Internet facilities for Staff & Students: Room of H.O.D., Teachers room, Seminar Library, Office and all the Laboratories are connected with Internet facilities inclusive of all PG special paper laboratories. As well as, it is given at Seminar Library room for the students.

c) Class rooms with ICT facility:

- Four class rooms are equipped with LCD projectors and Laptops.

d) Class rooms and Laboratories:

- Three laboratories cum theory class rooms are available for UG students.
- Two laboratories cum theory class rooms are available for PG students.
- Six well equipped special paper laboratories for PG students and research works.

e) Experimental garden: Department has its own experimental garden where plants of different habitats including different medicinal plants are kept for day-to-day practical class works and also for research works.

f) Instruments and equipment: The department through Government's annual grant, DST-FIST project and different projects grant has purchased important instruments needed for the UG

& PG students. Advanced instruments are used for the research work. Some important instruments are listed below.

Sl. No.	Name of Instrument	Price (Rs.)	Year of Purchase
1	PCR	2,50,000/-	2011-12
2	Gel Doc EZ-BIO-RASD	5,48,773/-	
3	UV-Vis Spectrophotometer (Shimadzu)	4,05,000/-	
4	Carl Zeiss Microscope with photographic attachment and computer	5,42,709/-	2012-13
5	All Quartz Double Distillation Unit with Power Supply- BOROSIL	2,61,290/-	
6	Carl Zeiss Microscope with photographic attachment and computer	5,70,447/-	2013-14
7	Laminar Airflow	1,18,000/-	
8	Rotary Microtome	2,19,581/-	
9	Air Sampler	90,789/-	
10	Gel Electrophoresis Trans Blot	71,850/-	
11	Students Microscopes (more than 130) @	13,00,000/-	2010-15

31. Number of students receiving financial assistance from college, university, government or other agencies:

Session	Name of the Scholarship/ Studentship	No. of Students receiving financial assistance		
		Total	Male	Female
2012-13	Half Free	03	01	02
	Full Free	02	02	00
2013-14	Half Free	12	01	11
	Full Free	03	00	03
2014-15	Half Free	01	01	00
	Full Free	02	01	01

Besides the above stated scholarship, other government and/or private scholarships are availed by the students. However as these are disbursed centrally and not channelized through the academic departments, the records are not maintained by individual departments.

32. Details on student enrichment programmes (special lectures/ workshops/ seminar) with external experts:

Student Enrichment Programme	Held on	Title	Funding Agency	External Expert/Resource Person/ Speaker
National level Seminar	14-15 July, 2011	Emerging Trends in Plant Sciences	UGC	Dr. R.R. Rao, CSIR Emeritus Scientist, CIMAT. Prof. R.S. Upadhyay, Dept. of Botany, BHU Prof. A.K.Pal, Dept. of Botany, CU Dr. Arunava Goswami, ISI, Kolkata Dr. Amita Pal, Scientist, Bose Institute Dr. Prabir Ghosal, ISI, Kolkata

33. Teaching methods adopted to improve student learning:

- Chalk and Talk method.
- Apart from usual methods like chalk and talk, modern teaching methods are frequently used such as power-point based lectures through LCD projector, use of models and posters, software based analysis for certain courses such as bio-informatics, morphometrics etc.
- Since the discipline relies on field-based studies, the students regularly participate in field surveys and excursions in different phyto-geographic regions of India.
- Students get opportunity to handle different sophisticated instruments.
- Assessment is another method of improvement. We assess the students in the form of class tests, half-yearly, annual and test examinations. Parents are informed as and when required.
- Seminar through power point presentation is mandatory for Final year Postgraduate students. They deliver seminar lectures before all other UG and PG students.

34. Participation in Institutional Social Responsibility (ISR) and Extension activities:

Students participate in different activities of NSS, such as blood donation camp, thalassemia detection camp etc.

35. SWOC analysis of the department and Future plans:

Strength
<ul style="list-style-type: none"> ✓ Adequate Departmental space ✓ Separate laboratories for all UG and PG classes ✓ 10 sanctioned teaching posts including one post of Professor (Submitted for creation of two more posts) ✓ Academic and Financial autonomy in PG course ✓ Revision of PG syllabus as and when required ✓ Class rooms are equipped with LCD projectors ✓ Well-equipped laboratories for UG, PG and research students ✓ Internet facilities for teachers and students ✓ Experimental garden

- ✓ Department conducts departmental committee meeting regularly and major decisions are passed through the meeting
- ✓ The meetings of the 'Post-Graduate Board of Studies' are held as and when required
- ✓ Minutes of all the meetings are preserved for future reference
- ✓ Teachers spend 5-8 hours time with their students everyday and shoulder direct teaching load of minimum 20 hours per week. All the teachers beside their UG & PG teaching assignments and research work, shoulder additional responsibilities in various departmental works like making routine, conducting different examinations, excursions, admission, purchases, students improvement programmes including counseling of the students
- ✓ Annual purchases of the department are made strictly adhering the rules and regulations of the Govt. of West Bengal. Storekeeper maintains stock register and department utilizes the grants without any diversion
- ✓ Maintenance of cordial relationship between teachers- students

Weakness/ Challenges/ Opportunity/Future Plans

- Transferable service of teachers as per Govt. rules.
- Need to consider specialization of teachers at the time transfer by the Govt.
- Requirement of additional number of supporting (non-teaching) staff
- Involvement of more faculties in active research and generation of more extra funds for the department
- Creation of Central instrumental facilities in the department
- Organization of more seminars and workshops for teachers and students
- More participation of faculties in National and International conferences and symposia
- Extension of more collaborative research projects
- The Department proposes to accord special departmental fellowship grants to deserving candidates from its own corpus fund; so that they remain committed to path of research till the time they are eligible to receive any Government grants. This will encourage more and more students to become oriented for research
- Intend to organize skill development programmes for the students

3. DEPARTMENT OF CHEMISTRY

1. Name of the Department: CHEMISTRY

2. Year of Establishment: UG General 1961; UG Hons. 1967

3. Names of Programmes / Courses offered (UG, PG, M.Phil., Ph.D., Integrated Masters, Integrated Ph.D., etc.):

UG (B.Sc. Chemistry Honours and Chemistry General)

4. Names of Interdisciplinary courses and the departments/ units involved: None

5. Annual/ semester/ choice based credit system (programme wise):

B.Sc. Chemistry Honours: Annual Examinations (Part I, Part II and Part III)

6. Participation of the department in the courses offered by other departments:

Chemistry is offered as General Subject for the following Honours subjects-

Physics, Mathematics, Botany and Zoology.

Chemistry is also offered as a subject in the B.Sc. General Course.

7. Courses in collaboration with other universities, industries, foreign institutions, etc.:

Nil

8. Details of courses/ programmes discontinued (if any) with reasons: Nil

9. Number of teaching posts:

POSTS	SANCTIONED	FILLED
Professor	0	0
Associate Professor	8	3
Assistant Professor		5

10. Faculty profile with name, qualification, designation, specialization (D.Sc/ D.Litt./ Ph.D./ M.Phil. etc.):

NAME	QUALIFICATION	DESIGNATION	SPECIALISATION	No. Of YEARS EXPERIENCE	No. OF Phd STUDENTS
A) CURRENT FULL TIME FACULTY					
Dr. Arup Bandyopadhyay	M.Sc., Ph.D	Associate Professor	Physical Chemistry	26 years	None
Dr. Sanat Kumar Saha	M.Sc., Ph.D	Associate Professor	Physical Chemistry	25 Years 6 Months	None
Dr. Suparna Basu (Chaki)	M.Sc., Ph.D	Associate Professor	Applied Chemistry	23 Years	None

Dr. Soma Nath (Deoghorla)	M.Sc., Ph.D	Assistant Professor	Inorganic Chemistry	12 Years 6 Months	None
Dr. Prabir Kumar Sen	M.Sc., Ph.D	Assistant Professor	Organic Chemistry	12 Years 6 months	None
Dr. Dipanwita Majumdar	M.Sc., Ph.D	Assistant Professor	Inorganic Chemistry	6 Years	None
Dr. Nabakumar Bera	M.Sc., Ph.D	Assistant Professor	Physical Chemistry	6 Years	None
Dr. Sanjukta Muhuri	M.Sc., Ph.D	Assistant Professor	Organic Chemistry	6 Years	None
B) FULL TIME FACULTY TRANSFERRED/RETIRED (Since October 2010)					
Dr. Ajit Kumar Ray	M.Sc. Ph.D	Associate Professor	Physical Chemistry	Retired from Service in 2011	None
Dr. Goutam Bandyopadhyay	M.Sc. Ph.D	Associate Professor	Physical Chemistry	Transferred to Bethune College	None
Dr. Asim Kumar Majee	M.Sc. Ph.D	Associate Professor	Inorganic Chemistry	Transferred to Bidhannagar Govt.College	None
C) PART-TIME FACULTY/GUEST FACULTY (Day)					
Shampa Saha Bhowmick[#]	M.Sc.	Part-time Faculty	Organic Chemistry	8 Years	None
D) PART-TIME FACULTY/GUEST FACULTY (Morning 2010-2014)					
Dr. Balai Chand Basak	M.Sc. Ph.D.	Part-time Faculty	Organic Chemistry	Resigned on 2012	None
Rajat Ranjan Ghosh	M.Sc.	Part-time Faculty	Organic Chemistry	8 Years, Resigned on July, 2015	None

[#] During the period 2010 to 2014, she performed as part-time faculty of morning section and 2015-16 onwards she will act as part-time faculty in the day section.

11. List of senior visiting faculty: None

12. Percentage of lectures delivered and practical classes handled (programme wise) by temporary faculty:

Name of temporary faculty with Qualification	Designation	Programme	Academic Session Taught	Total No. of classes in the Departmental Routine		Total No. of classes taught by temporary faculty		Percentage of lectures delivered
				Hons.	Gen.	Hons.	Gen.	
Dr. Balai Chand Basak (Resigned on 2012)	Part-time Faculty	B.Sc. Hons & General	2011-12	3120	1140	Nil	300	7.04
			2012-13	NA/Resigned during this period				
			2013-14					
			2014-15					
Rajat Ranjan Ghosh	Part-time Faculty	B.Sc. Hons & General	2011-12	3120	1140	Nil	290	6.80
			2012-13	3130	1110	Nil	293	6.91
			2013-14	3080	1160	Nil	299	7.05
			2014-15	3090	1150	Nil	295	6.96
Shampa Saha Bhowmick	Part-time Faculty	B.Sc. Hons & General	2011-12	3120	1140	Nil	291	6.86
			2012-13	3130	1110	Nil	292	6.88
			2013-14	3080	1160	Nil	287	6.76
			2014-15	3090	1150	Nil	290	6.84

13. Student-Teacher Ratio (programme wise):

Academic Session	Programme	No. of Students	No. of Teachers (at the beginning of Session)	Student: Teacher Ratio
2010-2011	UG Hons.	55	7	8:1
2011-2012	UG Hons.	59	6	10:1
2012-2013	UG Hons.	65	5	13:1
2013-2014	UG Hons.	72	7	10:1
2014-2015	UG Hons.	82	7	12:1

14. Number of academic support staff (technical) and administrative staff; sanctioned and filled:

Post	Sanctioned	Filled
Academic support staff (technical)	3	2
Administrative staff	0	0

15. Qualifications of teaching faculty with D.Sc./D.Litt./Ph.D./M.Phil./PG:

Highest Qualification	No. of Teaching Faculty (Existing)
D.Sc./D.Litt.	0
Ph.D.	8
M. Phil.	0
PG	1

16. Number of faculty with ongoing projects from a) National b) International funding agencies and grants received:

2 (National, UGC Grant for Minor Research Project)

Name of the faculty	Title of the Project	Funding agencies	Duration of the project	Grant sanctioned
Dr. Prabir Kumar Sen	Bergallini condensation: Expeditious synthesis of multifunctionalised acids	UGC	2012-till date	2 L
Dr. Dipanwita Majumdar	Synthesis, Characterization and Electrochemical study of Graphene/manganese dioxide nano composite	UGC	2014-till date	5 L

17. Departmental projects funded by DST-FIST, UGC, DBT, ICSSR, etc. and total grants received: Nil**18. Research Centre / facility recognized by the University: Nil**

19. Publications:

Total No. of Publications of the faculty members of the Department (2010-15, during the teachers' tenure at Barasat Government College) = **21**

NAME OF FACULTY	No. of papers in Peer reviewed National /International Journal	No. of publications listed in Int. Data base	Monograph	Chapter in Books	Books Edited	Books With ISSN/ISBN No.	Citation Index	SNIP	SJR	Impact Factor	H- Index
Dr. Arup Bandyopadhyay	0	0	-	-	-	-	-	-	-	-	-
Dr. Sanat Kumar Saha	1	0	-	-	-	-	-	-	-	-	-
Dr. Suparna Basu (Chaki)	0	0	-	-	-	-	-	-	-	-	-
Dr. Soma Nath (Deoghorla)	1	0	-	-	-	-	-	-	-	-	-
Dr. Prabir Kumar Sen	3	0	-	-	-	-	-	-	-	-	-
Dr. Dipanwita Majumdar	9	6	-	1		ISBN- 978-81- 921697- 3-6	0 to 24	-	-	1.815 to 15.409 (Int)	
Dr. Nabakumar Bera	3	1	-	-	-	-	-	-	-	1.785(Nat) 0.629(Int)	
Dr. Sanjukta Muhuri	4	1	-	1		ISBN- 987-1- 84973- 427-1	10	-	-	3 to 4 (Int)	

Details of publications are given in *Annexure 1*.

20. Areas of consultancy and income generated:

Name of the Faculty	Area of Consultancy	Income generated
Dr. Prabir Kumar Sen	Venue-in-Charge of written examination for the recruitment of Constable/ Lady Constable at Barasat Govt. College Centre in 2012	No income generated as part of college
	Supervisor of SET examination at Barasat Govt. College Centre in 2013	

21. Faculty as members in:

a) National Committee b) International Committee c) Editorial Boards

NAME OF FACULTY	Membership in i) National Committee ii) International Committee iii) Editorial Boards and iv) Others
Dr. Arup Bandyopadhyay	Member of editorial board of academic journal Aureole, College Journal since 2015
Dr. Sanat Kumar Saha	1. Member of editorial board of academic journal Aureole, College Journal since 2011 2. Member of UG Board of Studies, WBSU since 2012 3. Member of Syllabus Committee in UG Syllabus in Chemistry (Honours), WBSU in 2011-12
Dr. Prabir Kumar Sen	1. Member of editorial board of academic journal Aureole, College Journal since 2009 2. Life member of Indian Association for the Cultivation of Science 3. Life member of Chemical Research Society, Bangalore
Dr. Nabakumar Bera	Life member of Indian Physical Society
Dr. Dipanwita Majumdar	Life member of Indian Physical Society
Dr. Sanjukta Muhuri	1. Member of editorial board of academic journal Aureole, College Journal since 2013 2. Life member of Indian Association for the Cultivation of Science

22. Student projects:

NAME OF FACULTY	No. of Supervisions of M. Sc. Projects of PG students from other Institutions and Physics Department of Barasat Govt. College
Dr. Prabir Kumar Sen	01
Dr. Nabakumar Bera	12
Dr. Dipanwita Majumdar	03

b) Percentage of students placed for projects in organizations outside the institution i.e. in Research laboratories/Industry/ other agencies:

Nil

23. Awards/Recognitions received by faculty and students:

Name of the faculty	Award/Recognition received and Year
Dr. Nabakumar Bera	Awarded Ph.D. from Jadavpur University in 2011
Dr. Dipanwita Majumdar	Awarded Ph.D. from Jadavpur University in 2011

Name of the Student	Award/Recognition received and Year
Rajesh Dutta	Ranked 1 st class first in B.Sc. Hons.WBSU, 2012
Badal Mondal Suman Dhara Rabindranath Paul	Stood 3 rd as a team in 'ChemQuiz' organized by Presidency University in 2015
Badal Mondal	Ranked First class first in B.Sc. Hons.WBSU, 2015
Rajesh Dutta Sourav Das Riajul Hossain Biplab Dutta	Received DST-INSPIRE Scholarship, 2010
Mithu Bhowmick Subhajit Dey Soumyadeep Roy Chowdhury Poulomi Ghosh Rajesh Adhikari Dipanjan Sanyal Subhendu Sarkar	Received DST-INSPIRE Scholarship, 2011
Kinshuk Roy Debottam Dasgupta Subhadeep De Joydeep Mukherjee Upasana Acharyya Piyali Saha Subarna Biswas Samima Yasmin Munsi Sahid Hossain	Received DST-INSPIRE Scholarship, 2012
Lipika Baidya Nilanjana Biswas	Received DST-INSPIRE Scholarship, 2014

24. List of eminent academicians and scientists/visitors to the Department:

Name of Eminent Academicians/Scientists/Visitors	Affiliation	Purpose of visit	Year
Prof. Debsankar Ray	IACS, Kolkata	Special lecture	2010 and 2011
Prof. Somnath Ghosh	Jadavpur University	Special lecture	2010
Prof. Animesh Chakraborti	IACS, Kolkata	Special lecture	2011
Prof. Sanjib Bagchi	IISER, Kolkata	Special lecture	2011
Prof. Amit Basak	IIT, Kharagpur	Special lecture	2011
Prof. Amitava Sarkar	IACS, Kolkata	Special lecture	2011
Prof. Kamal Bhattacharyya	Calcutta University	Special lecture	2011
Dr. Debabrata Maiti	IIT, Bombay	Special lecture	2011

Dr. Prabir Kumar Das	Ex-Principal, Bidhannagar Govt. College	Special lecture	2012
Dr. Chandrakanta Bandyopadhyay	RKMVC College, Rahara	Special lecture	2015
Dr. Tapan Kanti Paine	IACS, Kolkata	Special lecture	2015

25. Seminars/Conferences/Workshops organized & the source of funding:

Total 03 (Three)

a) National: One

THEME	LEVEL	FUNDING AGENCY	DATE	COLLABORATOR
National Level Seminar- one				
Modern Trends of Research in Chemistry: Scope of Inclusion in Under-graduate and Post-graduate Courses.	National	UGC	7 th and 8 th Sept, 2011	Indian Association for the Cultivation of Science, Jadavpur
Departmental Seminar - Two				
Acharya Prafulla Chandra Ray Memorial Lecture	Departmental Seminar	College Grant	30 th September 2010	Nil
Recent Trends in Chemistry	Departmental Seminar	College Grant	10 th January, 2015	Nil

b) International: Nil

26. Student profile programme/ course wise:

Name of the Course/programme	Applications received	Selected	Enrolled		Pass percentage
			*M	*F	
2012-2013 UG Hons.	383	28	20	08	More than 90%
2013-2014 UG Hons	511	33	16	17	More than 90%
2014-2015 UG Hons	435	33	26	07	Not yet received
2015-2016 UG Hons	647	39	30	09	Not yet received

*M = Male *F = Female

27. Diversity of Students:

Name of the Course	% of students from the same state	% of students from other States	% of students from abroad
B. Sc. Chemistry Hons.	100 %	0 %	0 %

28. How many students have cleared national and state competitive examinations such as NET, SLET, GATE, Civil services, Defence services, etc.

Name of the Competitive Examination	No. of students passed (in last five years)					
	2010	2011	2012	2013	2014	2015
JAM for all IIT	2	2	5	7	2	7
IISER	-	-	1	-	2	-
IISc	-	-	3	-	-	-
ISM	-	-	-	2	-	-
IACS	-	-	-	1	-	-
IEST	-	-	1	1	-	-
Universities and others	3	13	3	11	7	1*

**The Admission Process is yet to be completed*

29. Student progression: (2011-2015) #

Student progression	Against % enrolled
UG to PG	90%
PG to M. Phil.	nil
PG to Ph. D.	80%
Ph.D. to Post-Doctoral	-
Employed	
• Campus selection	Nil
• Other than campus recruitment	70-75%
Entrepreneurship/ Self-employment	10%

#based on verbal feedback from students

30. Details of Infrastructural facilities:

- a) **Library:** One seminar library (More than 600 books)
- b) **Internet facilities for Staff & Students:** Fully available

c) Class rooms with ICT facility: One Class room

d) Laboratories: 05

31. Number of students receiving financial assistance from college, university, government or other agencies:

Session	Name of the Scholarship /Studentship	No. of Students receiving financial assistance		
		Total	Male	Female
2011-2012	Half-Free	04	03	01
	Full-Free	05	02	03
2012-2013	Half-Free	04	03	01
	Full-Free	08	04	04
2013-2014	Half-Free	14	04	10
	Full-Free	03	00	03
2014-2015	Full-Free	10	08	02

32. Details on student enrichment programmes (special lectures/workshops/ seminar) with external experts:

Student Enrichment Programme	Held on	Title	Funding Agency	External Expert/Resource Person/ Speaker
Departmental Seminar	30 th September, 2010	Acharya Prafulla Chandra Ray Memorial Lecture	College funding	1. Prof. Deb Sankar Ray, IACS, Jadavpur 2. Prof. Somnath Ghosh, Jadavpur University
Departmental Seminar in Collaboration with Physics Department	13 th October, 2012	The Amazing Story of the Higgs Boson	College funding	Prof. Soumitra Sengupta, IACS, Kolkata
Departmental Seminar	10 th January, 2015	Recent Trends in Chemistry	College funding	1. Dr. Tapan Kanti Paine, IACS, Jadavpur 2. Dr. Chandrkanta Bandyopadhyay, RKMVC College, Rahara

**students' seminars/presentations are also held frequently (especially for Part-III students) as a part of student enrichment programmes.*

33. Teaching methods adopted to improve student learning:

Besides the traditional chalk and talk method, the teachers make extensive use of Charts, Models, ICT tools like Overhead projectors, screens etc. for power point presentations. Students are also allowed to access internet to download study material. In addition, the following methods are also used for betterment of teaching learning process.

- Tutorial Lectures
- Remedial Classes for SC, ST and Minority (non-creamy layer) students
- Special Lectures during Puja and Summer vacation
- Organizing Institute Visits to make the curriculum more attractive. One such study tour was organized in 2015 to IACS, Jadavpur to enhance scientific culture among students.

34. Participation in Institutional Social Responsibility (ISR) and Extension activities:

- ✓ The departmental teachers and the students actively participate in different socially relevant programmes like plantation/beautification of the college campus, Blood Donation Camp, Thalassemia Detection Camp, etc. organized by the NSS unit of the college.
- ✓ As a part of Extension activities students are also encouraged to publish a wall magazine titled '*Anwasha*' in frequent intervals to make awareness about the recent findings and discoveries in science and technology all over the world.

35. SWOC analysis of the department and Future plans:

Strengths	Weaknesses
<ul style="list-style-type: none"> ✚ Highly qualified (having Ph.D.), well-competent, dedicated teaching staff. ✚ Good academic profile of the students. The students occupy ranks in University Exams almost every year. ✚ Some of the students enjoy prestigious scholarships like DST-INSPIRE. ✚ After graduation, the students qualify for various National level competitive Exams like JAM, IISER, IISc etc and get entry into various premier Universities and Institutes like IISc, IIT, ISM, IISER, etc. for higher studies. ✚ Department contains a well-stocked seminar library (over 600 books) and computer facilities. ✚ The student-teacher relationship is extremely cordial. 	<ul style="list-style-type: none"> ✚ With increasing intake of students every year the existing space in the laboratories and classrooms have become inadequate. ✚ Campus interviews are few in number. ✚ Being a Government college, routine transfer of teachers causes an unbalanced situation in certain specialized areas of Chemistry and high student-teacher ratio sometime hamper the Teaching Learning process. ✚ There is also shortage of academic technical staff (Group-C and Group-D) in the Department.

Opportunities	Challenges
<p>✚ Chemistry as a subject provides ample opportunities to the students to pursue further studies and/or get employment in various fields like Applied Chemistry, Industrial & Analytical Chemistry, Biochemistry & Biotechnology, Food technology, Pharmaceutical Industries, etc.</p> <p>✚ Provided, regular campus interviews can be arranged, students can get employment even after graduation.</p> <p>✚ There is scope for extending research activities by developing a well-equipped Research Laboratory in the new annex building of the Department.</p>	<p>✚ Being a Government College creation of new teaching post is difficult without necessary Government approval. Therefore it has always been a challenge to share the burden of teaching and related works among the few staffs of the department.</p> <p>✚ Most of the infrastructural up-gradation and maintenance is dependent on Government Funds which is very irregular.</p> <p>✚ Since, in this region, students are from weak economic backgrounds our challenge is to provide them with modern facilities and a good academic environment to make their future bright.</p>

Future Plans:

- Introduction of PG courses in Chemistry will be held in near future. Approval from the affiliating University (WBSU) is already obtained. The new annex building for PG courses in chemistry is about to be completed. Presently necessary approval from Higher Education Department, W.B. is waiting.
- Improvement of Laboratory and Infrastructural facility.
- Organizing State /National Level Seminar/Symposium.
- Introduction of short-term projects.
- Setting up of Smart Class room (e-classroom) to make lecture presentations more interesting.
- Setting up a well-equipped Research Laboratory and giving more impetus to research work.

4. DEPARTMENT OF ECONOMICS

1. Name of the department: ECONOMICS

2. Year of Establishment: 1950

3. Names of Programmes / Courses offered (UG, PG, M.Phil., Ph.D., Integrated Masters, Integrated Ph.D., etc.):

UG (B.A. Economics Honours and Economics General)

4. Names of Interdisciplinary courses and the departments/ units involved:

None

5. Annual/ semester/ choice based credit system (programme wise):

B.A. Economics Honours: Annual Examinations (Part I, Part II and Part III Unit Test

6. Participation of the department in the courses offered by other departments:

Economics is offered as a general subject for the following Honours subjects: History, Political Science, Geography, English, Mathematics

7. Courses in collaboration with other universities, industries, foreign institutions, etc.:

Nil

8. Details of courses/ programmes discontinued (if any) with reasons: Nil

9. Number of teaching posts:

Table 1

POSTS	SANCTIONED	FILLED
Professor	Nil	Nil
Associate Professor	04	04
Assistant Professor		

10. Faculty profile with name, qualification, designation, specialization (D.Sc/ D.Litt./ Ph.D./ M.Phil. etc.):

NAME	QUALIFICATION	DESIGNATION	SPECIALISATION	No. Of YEARS EXPERIENCE	No. OF Phd STUDENTS
A) CURRENT FULL TIME FACULTY					
Dr. Saroj Panja	M.A Ph. D	Associate Professor	Agricultural Economics	30 years	Nil
Dr. Rajnarayan Gupta	M.A M.Phil Ph. D	Associate Professor	Macroeconomics Financial economics	19 years	1
Dr. Sudeshna Chattopadhyay	M.Sc M.Phil Ph. D	Assistant professor	Trade, Industry and Environment	13 years	Nil
Tusar Kanti Samanta	M.Sc Regd. For Ph.D	Assistant professor	Equilibrium & Game Theory	1 month	Nil
B) FULL TIME FACULTY TRANSFERRED (Since October 2010)					
Dr. Arindam Bhattacharya	Ph.D	Assistant professor	Macroeconomics	--	Nil
Dr. Mriganka De Sarkar	Ph.D	Assistant professor	Econometrics	--	Nil
Tina Barma	Regd. For Ph.D	Assistant professor	--	--	Nil
C) PART-TIME FACULTY/GUEST FACULTY (Morning)					
Kakali Bhattacharya	M.A.	Part-time Faculty	Econometrics	18 years	Nil
Chandrani Bhattacharya	M.A.	Part-time Faculty	International Economics	5 years	Nil

11. List of senior visiting faculty: None

12. Percentage of lectures delivered and practical classes handled (programme wise) by temporary faculty:

Name of temporary faculty with Qualification	Designation	Programme	Academic Session Taught	Total No. of classes in the Departmental Routine		Total No. of classes taught by temporary faculty		Percentage of lectures delivered
				Hons.	Gen.	Hons.	Gen.	
Kakali Bhattacharya	Part-time Faculty	B.A. Hons & General	2011-12	2000	500	Nil	150	6
			2012-13	1980	495	Nil	155	6.26
			2013-14	2015	510	Nil	146	5.78
			2014-15	1990	502	Nil	152	6.10

Chandrani Bhattacharya	Part-time Faculty	B.A. Hons & General	2011-12	2000	500	Nil	202	8.08
			2012-13	1980	495	Nil	194	7.84
			2013-14	2015	510	Nil	200	7.92
			2014-15	1990	502	Nil	204	8.19

13. Student-Teacher Ratio (programme wise):

Academic Session	Programme	No. of Students	No. of Teachers (at the beginning of Session)	Student: Teacher Ratio
2010-2011	UG Hons.	25	4	25:4
2011-2012	UG Hons.	21	4	21:4
2012-2013	UG Hons.	22	4	22:4
2013-2014	UG Hons.	21	4	21:4
2014-2015	UG Hons.	17	4	17:4

14. Number of academic support staff (technical) and administrative staff; sanctioned and filled:

Post	Sanctioned	Filled
Academic support staff (technical)	0	0
Administrative staff	0	0

15. Qualifications of teaching faculty with D.Sc./D.Litt./Ph.D./M.Phil./PG:

Highest Qualification	No. of Teaching Faculty (Existing)
D.Sc./D.Litt.	0
Ph.D.	3
M. Phil.
PG	3

16. Number of faculty with ongoing projects from a) National b) International funding agencies and grants received: Nil**17. Departmental projects funded by DST-FIST, UGC, DBT, ICSSR, etc. and total grants received:** Nil**18. Research Centre / facility recognized by the University:** Nil**19. Publications:**

Total No. of Publications of the Department (2010-15, during the teachers' tenure at Barasat Government College) = 21

Publications details of Faculty:

A) CURRENT FULL TIME FACULTY

NAME OF FACULTY	No. of papers in Peer reviewed National /International Journal	No. of publications listed in Int. Data base	Monograph	Chapter in Books	Books Edited	Books With ISSN/ISBN No.	Citation Index	SNIP	SJR	Impact Factor	H- Index
Dr. Rajnarayan Gupta	1	-	-	1	-	1					
Dr. Sudeshna Chattopadhyay	2	-	-	1							
B) FULL TIME FACULTY TRANSFERRED (Since October 2010)											
Dr. Arindam Bhattacharya	4	-	-	-	-						
Dr. Mriganka De Sarkar	4	-	-	-	-						

20. Areas of consultancy and income generated:

Name of the Teacher	Area of Consultancy	Agency	Period	Income generated
Dr. Arindam Bhattacharya	Compilation of District Human Development Report-North 24 Parganas	Planning Commission, Govt of India and Govt of West Bengal	Sept-2008-February-2010	NA (government college teachers cannot accept any remunerative assignment)

21. Faculty as members in

a) National committees b) International Committees c) Editorial Boards.

None

22. Student projects:

Year	No. of projects
2012-13	0
2013-14	5
2014-15	9

b) Percentage of students placed for projects in organizations outside the institution i.e. in Research laboratories/Industry/ other agencies: None

23. Awards/Recognitions received by faculty and students:

Arindam Bhattacharya was awarded Ph.D in 2013 by University of Calcutta

24. List of eminent academicians and scientists/visitors to the department: Nil**25. Seminars/Conferences/Workshops organized & the source of funding**

a) **National:** Nil

b) **International:** Nil

26. Student profile programme/ course wise:

Name of the Course/programme	Applications received	Selected	Enrolled		Pass percentage
			*M	*F	
2012-2013	41	06	4	2	100%
2013-2014	29	06	4	2	100%
2014-2015	31	01	-	1	100%
2015-2016	61	30	21	09	

*M = Male *F = Female

27. Diversity of Students

Name of the Course	% of students from the same state	% of students from other States	% of students from abroad
B.A Economics (Honours) as in the last five academic sessions	100%	Nil	Nil

28. How many students have cleared national and state competitive examinations such as NET, SLET, GATE, Civil services, Defence services, etc.:

Not available

29. Student progression: (2011-2015)

Student progression	Against % enrolled
UG to PG	100%
PG to M. Phil.	Not available
PG to Ph. D.	Not available
Ph.D. to Post-Doctoral	Not available
Employed • Campus selection • Other than campus recruitment	Not available
Entrepreneurship/ Self-employment	Not available

30. Details of Infrastructural facilities

- a) **Library:** The department has a well-stocked seminar library. At present, there are 400 books. The students are allowed to borrow books for a month.
- b) **Internet facilities for Staff & Students:** The department has two desktops and one laptop. Internet facility is available to both staff and students
- c) **Class rooms with ICT facility:** one
- d) **Laboratories:** One (shared with Mathematics Department)
- e) **Photocopy Machine:** the department has one photocopy machine that the department shares with the department of Mathematics.

31. Number of students receiving financial assistance from college, university, government or other agencies:

Name of the scholarship/studentship	Session	No. of students receiving financial assistance		
		Total	Male	Female
DPI scholarship	2010-11			
DPI scholarship	2011-12	9	6	3
DPI scholarship	2012-13	0	0	0
DPI scholarship	2013-14	2	1	1
DPI scholarship	2014-15	0	0	0

32. Details on student enrichment programmes (special lectures/workshops/ seminar) with external experts: Nil**33. Teaching methods adopted to improve student learning:**

Microsoft Power Point is used for making presentations using projector. The students are also encouraged to prepare their own power point presentations. Teachers organize class room quiz-competition on various topics from the syllabus .The students are encouraged to download and read e-Books for different papers.

34. Participation in Institutional Social Responsibility (ISR) and Extension activities:

The students of the departments actively participate in outreach programme or extension activities like blood donation/ plantation in the college campus etc. organised by NSS committee of the college inside and outside the college campus.

35. SWOC analysis of the department and Future plans:

Strengths	Weaknesses	Opportunities	Challenges	Future Plan
All teaching posts are filled up	<p>Department needs a separate computer laboratory, so far it has shared one with the Department of Mathematics</p> <p>The Department has only one class room. Another class room and additional space is required.</p>	To make the subject more interesting the department has some opportunity to put more emphasis on e learning.	<p>Since few students opt for Economics Honours course it is the challenge of the department to motivate students to pursue the course. Department provides regular counselling to students regarding various career opportunities and the scope for higher studies in the subject.</p>	<p>To equip the students for the job market the department plans to offer specialized courses in statistical software packages like: Excel, SPSS and STATA.</p>
Most of the teachers have Ph. D degree				
Department has a large and well maintained seminar library.				

5. DEPARTMENT OF ENGLISH

1. Name of the department: ENGLISH

2. Year of Establishment: 1950

3. Names of Programmes / Courses offered (UG, PG, M.Phil., Ph.D., Integrated Masters, Integrated Ph.D., etc.):

UG (B.A. English Honours and English General)

4. Names of Interdisciplinary courses and the departments/ units involved:

NONE

5. Annual/ semester/ choice based credit system (programme wise):

B.A. English Honours: Annual Examinations (Part I, Part II and Part III)

6. Participation of the department in the courses offered by other departments:

English is offered as a General Subject for the following Honours subjects - Bengali, History, Political Science and Philosophy.

English is also offered as a subject in the B.A. General Course, in the Morning Section.

7. Courses in collaboration with other universities, industries, foreign institutions, etc.:

Nil

8. Details of courses/ programmes discontinued (if any) with reasons:

Compulsory English course has been discontinued by *West Bengal State University* from the session 2012-2013.

9. Number of teaching posts:

POSTS	SANCTIONED	FILLED
Professor	0	0
Associate Professor	06	01
Assistant Professor		02

10. Faculty profile with name, qualification, designation, specialization**(D.Sc./D.Litt./Ph.D./ M.Phil., etc.):**

NAME	QUALIFICATION	DESIGNATION	SPECIALISATION	No. Of YEARS EXPERIENCE	No. OF PhD STUDENTS
A) CURRENT FULL-TIME FACULTY					
Dr. Basabi Roy Chowdhury	M.A., M. Phil, PhD, PG Diploma in Higher Education	Associate Professor	Novels of Charles Dickens & Children's Literature	32 years	NONE
Swaty Mitra	M.A., M. Phil., Regd. for PhD	Assistant Professor	Novels of Doris Lessing and Post Fifties Novels; and American Literature	8 years 6 months	NONE
Ambarish Sen	M.A., B. ED. Regd. for PhD	Assistant Professor	American Literature; and Research Area: Indian Diasporic Novels	6 years	
B) FULL-TIME FACULTY TRANSFERRED/ON-LIEN (Since October 2010)					
Dr. Debjani Ray Moulik	M.A., M. Phil. PhD	Assistant Professor	19 th C Bengal Translations	6 years (transferred to Muragachha College in May 2015)	NONE
Sharmistha Das	M.A. M.Phil.	Assistant Professor	Post Fifties Novels	6 years (on-lien, joined non-govt. college)	NONE
Mandira Mitra	M.A. Regd. for PhD	Assistant Professor	Narrative Theories	6 years (transferred to Bethune College in 2011)	NONE

C) PART-TIME (EXISTING) FACULTY/GUEST FACULTY (Day)					
Swapan K. Kanjilal	M. A. LLB.	Retd. Professor	Critical Theory	Post-Retirement Service in Barsat 6 years	NONE
D) PART-TIME (EXISTING) FACULTY/GUEST FACULTY (Morning) * (The UG General Course in English is conducted in the MORNING SECTION by part-time faculty)					
Mousumi Roy	M. A. B.Ed	Part-time Faculty	Tagore Literature	24 years	NONE
Niloy Chakraborty	M. A.	Part-time Faculty	American Literature	16 years	NONE
E) PART-TIME FACULTY/GUEST FACULTY RESIGNED (Day 2010-2014)					
Kuntala Sengupta	M.A. Regd. for PhD	Part-time Faculty	Modernist Interrelations: Art and Literature in the Works of Sylvia Plath.	5 years (Resigned to join J.D. Birla Institute in 2014 in Substantive post)	NONE
Souvik Das	M.A. B. Ed	Part-time Faculty	Ancient European Literature	4 years (Resigned on receiving placement in school through SSC in 2014)	NONE
Md. Sahariar Mondal	M.A. B. Ed	Part-time Faculty	Modern Australian and American Literature	3 years (Resigned on receiving placement in school through SSC in 2013)	NONE

11. List of senior visiting faculty: NONE

12. Percentage of lectures delivered and practical classes handled (programme wise) by temporary faculty: (Per Week)

Name of temporary faculty with Qualification	Designation	Programme	Academic Session Taught	Total No. of classes in the Departmental Routine			Total No. of classes taught by temporary faculty			Percentage of lectures delivered
				Hons.	Gen.	Total	Hons.	Gen.	Total	
Swapan K. Kanjilal M.A.	Part-time Faculty	B.A. Hons. & General	2011-12	78	09	87	8	1	09	10.34%
			2012-13	85	07	92	8	1	09	9.78%
			2013-14	85	07	92	8	0	08	8.69%
			2014-15	79	08	87	6	1	07	8.04%
Kuntala Sengupta M.A.	Part-time Faculty	B.A. Hons & General	2011-12	78	09	87	8	1	09	10.34%
			2012-13	85	07	92	8	1	09	9.78%
			2013-14	85	07	92	7	1	08	8.69%
			2014-15	79	08	87	resigned			
Souvik Das M.A.	Part-time Faculty	B.A. Hons & General	2011-12	78	09	87	7	2	09	10.34%
			2012-13	85	07	92	8	2	10	10.86%
			2013-14	85	07	92	7	2	09	9.78%
			2014-15	79	08	87	resigned			
Md. Sahariar Mondal M.A.	Part-time Faculty	B.A. Hons & General	2011-12	78	09	87	7	2	09	10.34%
			2012-13	85	07	92	8	2	10	10.86%
			2013-14	85	07	92	7	2	09	9.78%
			2014-15	79	08	87	resigned			

*(The UG General Course in English in the MORNING SECTION is conducted completely by part-time faculties)

Name of temporary faculty with Qualification	Designation	Programme	Academic Session Taught	Total No. of classes in the Departmental Routine		Total No. of classes taught by temporary faculty		Percentage of lectures delivered
				Hons.	Gen.	Hons.	Gen.	
Mousumi Roy	Part-time Faculty	B.A. Hons and General	2011-12	NONE	18	NONE	09	50%
			2012-13					
			2013-14					
			2014-15					
Niloy Chakraborty	Part-time Faculty	B.A. Hons and General	2011-12	NONE	18	NONE	09	50%
			2012-13					
			2013-14					
			2014-15					

13. Student-Teacher Ratio (programme wise):

Academic Session	Programme	No. of Students	No. of Teachers (at the beginning of Session)	Student: Teacher Ratio
2010-2011	UG Hons.	170	8	21: 1
2011-2012	UG Hons.	177	8	22: 1
20-12-2013	UG Hons.	196	8	24: 1
2013-2014	UG Hons.	216	8	27: 1
2014-2015	UG Hons.	222	5	28:1

14. Number of academic support staff (technical) and administrative staff; sanctioned and filled: None**15. Qualifications of teaching faculty with D.Sc./D.Litt./Ph.D./M.Phil./PG:**

Highest Qualification	No. of Teaching Faculty (Current Full-time and Part-time Faculties)
PhD	1
M. Phil.	1
PG	2

16. Number of faculty with ongoing projects from a) National b) International funding agencies and grants received:

NONE

17. Departmental projects funded by DST-FIST, UGC, DBT, ICSSR, etc. and total grants received:

NONE

18. Research Centre / facility recognized by the University:

NONE

19. Publications:

Total No. of Publications of the Department (2010-15, during the teachers' tenure at Barasat Government College) = **25** (all are national level publications)

Publications details of FACULTY

A) CURRENT FULL TIME FACULTY

NAME OF FACULTY	No. of papers in Peer reviewed National /International Journal	No. of publications listed in Int. Data base	Monograph	Chapter in Books	Books Edited	Books With ISSN/ISBN No.	Citation Index	SNIP	SJR	Impact Factor	H- Index
Basabi Roy Chowdhury					1 (jointly)						
Swaty Mitra	1				1 (jointly)						
Mr. Ambarish Sen				4							

B) FULL TIME FACULTY TRANSFERRED/ON-LIEN (Since October 2010)

Dr. Debjani Ray Moulik (transferred May, 2015)	3			3							
Sharmistha Das (on-lien from Apr 2015)	6										

C) PART-TIME FACULTY/GUEST FACULTY (Day)

Swapan K. Kanjilal						1					
Kuntala Sengupta (2011-14)	4			1							

20. Areas of consultancy and income generated: (non-profit services rendered) :

NONE

21. Faculty as members in**a) National committees b) International Committees c) Editorial Boards....**

NAME OF FACULTY	National committees/International Committees /Editorial Boards....
Swaty Mitra	The International Doris Lessing Society (since 2004) https://dorislessingsociety.wordpress.com/
Ambarish Sen	National Association for the Blind

22. Student projects:

- a) Percentage of students who have done in-house projects including inter-departmental/programme:

PROJECTS

- IInd year Students in 2011-12, 2012-13: Did projects on *Pride and Prejudice: A Process of Reading* – mandatory exercise for all as it is a compulsory paper.

- In 2014-2015

All three years (I, II, III) were divided into groups for group projects and seminars.

Ist Year: Project on History of English Literature

IInd Year: On the development and types of the Early English Novel in 18th c.

IIIrd Year: History of English Literature (Modern Period and thereafter).

The project-seminar method was chosen to inculcate research interests in students, develop confidence in their subjects, and to train them in public speaking.

b) Percentage of students placed for projects in organizations outside the institution

i.e. in Research laboratories/Industry/other agencies:

Nil

23. Awards/Recognitions received by faculty and students**Faculty:**

1. Dr. Debjani Ray Moulik received her PhD award for her thesis entitled "Translating Drama: Viewing Surendra-Binodini and Sarat-Sarojini in the Light of Colonial and Post-colonial Studies" in December 2013.
2. Ambarish Sen received the State Award for Performance and Achievement as a Disabled Person in the field of Academics, December 2011.

Student:

1. Dhiman Roy received the UGC NET-JRF in December 2014.
2. Debanjan Mitra received the UGC NET-JRF in June 2014.

24. List of eminent academicians and scientists/visitors to the department:

NONE

25. Seminars/Conferences/Workshops organized & the source of funding**a) National:** Two (in Collaboration)

THEME	LEVEL	FUNDING AGENCY	DATE	COLLABORATOR
<i>Women and Literature: Different Faces, Different Voices</i>	National	UGC	Barasat, 17-18 January 2012	Joint seminar by English, History, Sanskrit and Philosophy in collaboration with the <i>School of Women's Studies</i> , Jadavpur University
<i>Literature in Translation</i>	National	UGC	Bidhan Nagar, August 2013	Collaborated with the Department of English, <i>Bidhan Nagar College</i> , Kolkata

b) International: Nil**26. Student profile programme/ course wise:**

Name of the Course/programme English Honours	Applications received	Selected	Enrolled		No. of Students Appeared in the Final Exam in that year.	Total No. of Students passed	No. of First Classes	Pass percentage
			*M	*F				
2010-2011	1159	55	19	36	41	39	01	95.12%
2011-2012	1159	66	24	42	40	38	03	95%
2012-2013	1316	75	25	50	47	43	01	91.48%
2013-2014	1447	75	32	43	46	40	04	86.95%
2014-2015	846	72	21	51	54	50	02	92.59%

*M = Male *F = Female

27. Diversity of Students

Name of the Course	% of students from the same state	% of students from other States	% of students From abroad
B.A. English (Honours) as in the last five academic sessions	100%	nil	nil

28. How many students have cleared national and state competitive examinations such as NET, SLET, GATE, Civil services, Defense services, etc.

Name of the Competitive Examination	No. of students passed (since 2011)
NET	04
SET	01
Others (Civil Services, Defence services, etc.)	Staff Selection (01) Primary Teacher's TET (01)

* As communicated verbally.

29. Student progression: (2011-2015)

Student progression	Against % enrolled
UG to PG	75%
PG to M. Phil.	No data available
PG to Ph. D.	No data available
Ph.D. to Post-Doctoral	No data available
Employed • Campus selection • Other than campus recruitment	No data available
Entrepreneurship/ Self-employment	No data available

* As communicated verbally.

30. Details of Infrastructural facilities**a) Library:**

The Seminar Library of the department has over 900 books. The process of addition to this collection takes place regularly. The students are allowed to borrow books for a fortnight.

b) Internet facilities for Staff & Students:

As the College has wi-fi connections it enables teachers to use ICTs in all classes with the help of the departmental laptop. The library, including seminar library, has internet connections and available computers for students' use.

c) Class rooms with ICT facility:

Faculties make use of Information and Communication Technologies (such as, Open Educational Resources, wikies) in the class rooms. For film shows, documentaries and similar audio-visual sessions, the department also uses the conference hall and the hall in the Physics department..

Students are encouraged to access material through INFLIBNET in the library for secondary material. The faculty uses the audio-video facilities offered by the *British Council Library* to develop teaching aids.

d) Laboratories:

Although the Department is yet to have a language Laboratory, the available ICT facilities and audio-visual aids from *British Council Library* are used in classes.

31. Number of students receiving financial assistance from college, university, government or other agencies:

Name of the Scholarship/ Studentship	Session	No. of Students receiving financial assistance		
		Total	Male	Female
FULL-FREESHIP	2011-12	13	3	10
	2012-13	01	0	01
	2013-14	03	1	2
	2014-15	15	2	13
HALF-FREESHIP	2011-12	17	6	11
	2012-13	00	0	0
	2013-14	25	12	13
	2014-15	20	3	17

Besides the above stated scholarship, other government and/or private scholarships are availed by the students.

However as these are disbursed centrally and not channelized through the academic departments, the records are not maintained by individual departments.

32. Details of student enrichment programmes (special lectures/workshops/ seminar) with external experts:

Student Enrichment Programme	Held on	Title	Funding Agency	External Expert/Resource Person/ Speaker
Special Lecture	18.02.2014	<i>Epic Catalogue in Milton's Paradise Lost</i>		Sharmistha Mitra, Associate Professor and Head of the Department of English, Jhargram Raj College

Special Lecture	16.12.2014	<i>Third Theatre and Breaking the Fourth Wall</i>		Indranee Ghosh, Retd. Professor of English, WBES.
Workshop	07.01.2015	<i>On the Prospects of Comparative Literature</i>		Faculty, Department of Comparative Literature, West Bengal State University

33. Teaching methods adopted to improve student learning:

The Department has undertaken several methods to improve teaching-learning process.

The following are the methods implemented regularly:

- a) Regular assessment through home assignments, class tests, class discussions.
- b) Use of Information and Communication Technologies (ICTs) in class rooms to enliven lectures through visual aids
- c) Use of exercises to increase students' language skills through Story-telling sessions, extempore speeches and Quizzes.
- d) Seminar projects are organized to inculcate research interests and to develop presentation skills among students
- e) Film shows are arranged to generate greater interests in course material. YouTube material are used, particularly for poetry teaching.
- f) Wall-magazines and cultural interactions within the department are encouraged to generate platforms for exchange of ideas.

34. Participation in Institutional Social Responsibility (ISR) and Extension activities:

- ✓ Ambarish Sen is particularly involved in programmes for the betterment of blind persons. He is a member of several social organizations, working for the welfare, education and rehabilitation of the blind. He has been working for (1.) National Association for the Blind, (2.) Society for the Welfare of the Blind and (3.) Blind Persons' Association.
- ✓ The Faculties take personal interest in students' welfare and whenever needs arise they assist students, counsel and motivate them.

35. SWOC analysis of the department and Future plans:**STRENGTHS**

- ✓ **Dedication:** The Department is dedicated towards student progression and the faculties are eager to improve and improvise.
- ✓ **Regularity:** The department stresses on regularity. Regular classes, interactions and assessments, take place. Records are maintained systematically, including detailed records of students.
- ✓ **Innovations:** Faculties employ innovative methods and ICTs in class-room teaching. Each teacher tries to make class room sessions interactive.
- ✓ **Seminar Library:** The Department has weekly seminar library hours for every year. The seminar library is well-stocked with over 900 books. Students can use the seminar library room to read books as well as to access the huge amount of e-resources available through Infflibnet from the seminar library.
- ✓ **Seminar-Projects:** The seminar-project method helps to inculcate research orientation in students, as well as generate greater interest in the course.
- ✓ **Language sessions:** The department keenly addresses the language barrier that exists among students. It employs productive methods to encourage students to develop their communicative skills through regular group discussions, extempore, jamming sessions, story-telling sessions and quizzes.
- ✓ **Teacher-Student Relationship:** The bonding between students and teachers of the department is extremely close and the cordial relationship continues even after the students complete the course and leave the college.

WEAKNESSES

- ✗ The department does not have a room of its own which limits its activities.
- ✗ Teachers are transferred erratically which affects the functioning of the department.
- ✗ Number of intake is high which increases the student: teacher ratio considerably.
- ✗ The department does not have a seminar library of its own, and uses a shared seminar library of UG arts.
- ✗ The department does not have a journal of its own, which requires immediate address.

OPPORTUNITIES

- ⊙ Some of the most meritorious students from arts and science streams enrol for Honours in English, which denotes inherent academic excellence.
- ⊙ The departmental wall magazine, **Open Window**, offers a space for creative expressions.
- ⊙ The Faculty is research oriented and prefers innovative and project-seminar methods. This helps to instill research interests in students (Details in Annexure: English).
- ⊙ To increase departmental interactions the students have opened an alumni group on Facebook. <https://www.facebook.com/pages/Alumni-Association-English-Dept-Barasat-Govt-College/>

CHALLENGES

- ☞ It is a challenge to track irregular students, and draw them to class.
- ☞ The department's attempts to address the language barrier is limited by
 - a) Time, as it has to complete the university syllabus.
 - b) Infra-structure, as the college is yet to have a language lab.

FUTURE PLANS:

1. To publish a departmental Journal.
2. To develop the communicative skills of the students through a bridge course in English language before the commencement of every new session. This may be done by collaborating with the *British Council*, Kolkata, which has shown interest, though the logistics have to be worked out
3. To organize an inter-college students' seminar, and organise more conferences/seminars.
4. To invite eminent teachers for special lectures.
5. To consider comparative literature as a possible subsidiary subject.
6. To encourage students to participate in student seminars in other institutions.
7. To target holistic learning by incorporating different performing arts, creative pursuits, etc. within the ambit of the existing syllabus.
8. To have special value-engendering sessions to inculcate a sense of responsibility and accountability to self, institution and society.

6. DEPARTMENT OF GEOGRAPHY

1. Name of the department: Geography
2. Year of Establishment: 1996
3. Names of Programmes / Courses offered (UG, PG, M.Phil., Ph.D., Integrated Masters, Integrated Ph.D., etc.): UG
4. Names of Interdisciplinary courses and the departments/ units involved: No
5. Annual/ semester/ choice based credit system (programme wise): Annual Exam
B.Sc Geography Honours: Annual Examinations (Part I, Part II and Part III)
6. Participation of the department in the courses offered by other departments: No
7. Courses in collaboration with other universities, industries, foreign institutions, etc.: No
8. Details of courses/ programmes discontinued (if any) with reasons: No
9. Number of teaching posts:

POSTS	SANCTIONED	FILLED
Professor	Nil	NA
Associate Professor	6	1
Assistant Professor		5

10. Faculty profile with name, qualification, designation, specialization (D.Sc/D.Litt./Ph.D./ M.Phil. etc.):

NAME	QUALIFICATION	DESIGNATION	SPECIALISATION	No. OF YEARS EXPERIENCE	No. OF PhD STUDENTS
A) CURRENT FULL TIME FACULTY					
Sujit Kumar Bhattacharyya	M.A	Associate Professor	Regional Planning	31	Nil
Dr. Ruksanara Begum	M.Sc, Ph.D	Assistant Professor	Cartography	9	Nil

Dr. Sourama Saha	M.A, Ph.D	Assistant Professor	Agricultural Geography	10	Nil
Dr. Chandan Surabhi Das	M.Sc, Ph.D	Assistant Professor	Cartography & Bio Geography	08	Nil
Shrabana Mazumder	M.A, M.Phil	Assistant Professor	Environmental Studies in Geography	04	Nil
Aznarul Islam	M.Sc, M.Phil	Assistant Professor	Urban Geography	01	Nil
B) FULL TIME FACULTY, TRANSFERRED (Since October 2010)					
Dulal Chandra Das	M.A	Associate Professor	Cartography	28	Nil
Harekrishna Dutta	M.A	Associate Professor	Fluvial Geomorphology	29	Nil
Dr. Gunodhar Manna	M.Sc. Ph.D	Assistant Professor	Cartography	15	Nil

11. List of senior visiting faculty: Nil

12. Percentage of lectures delivered and practical classes handled (programme wise) by temporary faculty: N.A.

13. Student-Teacher Ratio (programme wise):

Academic Session	Programme	No. of Students	No. of Teachers (at the beginning of Session)	Student: Teacher Ratio
2010-2011	UG Hons.	120	4	30: 1
2011-2012	UG Hons.	118	5	24: 1
2012-2013	UG Hons.	119	5	24: 1
2013-2014	UG Hons.	139	4	35: 1
2014-2015	UG Hons.	150	6	25: 1

14. Number of academic support staff (technical) and administrative staff; sanctioned and filled:

Post	Sanctioned	Filled
Academic support staff (technical)	01	01
Administrative staff	02	02

15. Qualifications of teaching faculty with D.Sc./D.Litt./Ph.D./M.Phil./PG:

Highest Qualification	No. of Teaching Faculty(Existing)
D.Sc./D.Litt.	Nil
Ph.D.	3
M. Phil.	2
PG	6

16. Number of faculty with ongoing projects from a) National b) International funding agencies and grants received:

Faculty	Title of the project	Duration	Funding Agency	Grant Sanctioned (Rs.)	Grant Received (Rs.)
Dr. Chandan Surabhi Das	'Monitoring the Sundarban Ecosystem and its Livelihood using Geo-spatial technique: A case study of Gosaba Block	July 2014 to July 2016	UGC	4,15,000	2,97,500

17. Departmental projects funded by DST-FIST, UGC, DBT, ICSSR, etc. and total grants received: UGC, Grant Received in Rs: 2, 97,500/-

18. Research Centre / facility recognized by the University: No

19. Publications:

Total No. of Publications of the Department (2010-15, during the teachers' tenure at Barasat Government College) =

Paper : 21
Book : 9
Edited Book : 7

Publications details of Faculty:

A) CURRENT FULL TIME FACULTY

NAME OF FACULTY	No. of papers in Peer reviewed National /International Journal	No. of publications listed in Int. Data base	Monograph	Chapter in Books	Books Edited	Books With ISSN/ISBN No.	Citation Index	SNIP	SJR	Impact Factor	H- Index
Sujit Kumar Bhattacharyya	0	0	0	0	2		-	-	-	-	-
Dr. Ruksanara Begum	4	0	0	0	0		-	-	-	-	-
Dr. Sourama Saha	5	0	0	0	0	3	-	--	-	-	-
Dr. Chandan Surabhi Das	6	0	0	4	0	4				1.25	2.00
Shrabana Mazumder	3	0	0	0	0						
Aznarul Islam	6	0	0	1	0		4				2
A) FULL TIME FACULTY TRANSFERRED/ON-LIEN (Since October 2010)											
Dulal Chandra Das	0	0	0	0	0	3	-	-	-	-	-
Harekrishna Datta	0	0	0	0	0	0	-	-	-	-	-
Dr. Gunodhar Manna	1	0	0	0	0	0	-	-	-	-	-

20. Areas of consultancy and income generated:

Nil

21. Faculty as members in**a) National committees b) International Committees c) Editorial Boards....**

NAME OF FACULTY	National committees/International Committees /Editorial Boards....
Dr. Ruksanara Begum	Member of the editorial board of Academic Journal “ <i>Aureole</i> ”
Dr. Chandan Surabhi Das	Member of the editorial board of Academic Journal “ <i>Monan</i> ”

22. Student projects:

Year	Title of the project (Project done jointly by the students)
2010 - 2011	Geo-cultural landscape of Panchmari town, M.P.
2011 - 2012	Falti: An approach to Geographical Study with its Varied landscape
2012 - 2013	A Field Report on Munnar and its surroundings.
2013 - 2014	Physico-cultural landscape of Yendapallivalasa village in Araku Valley.
2014 - 2015	Physio-cultural landscape of Jabalpur, M.P.

b) Percentage of students placed for projects in organizations outside the institution, i.e. in Research laboratories/Industry/ Other agencies: No**23. Awards/Recognitions received by faculty and students:****A: Faculty**

- i) 2010-11: Sourama Saha awarded PhD in Geography from University of Calcutta
- ii) 2010-11: Ruksanara Begum awarded PhD in Geography from University of Calcutta

B. Student

Name of the Student participants	Name of the Programme	Date	Specify whether award received
Tanmoy Sardar (Pass out in 2012)	UGC Rank holder's scholarship , NET-Dec. 2014	2014	Yes
Prosenjeet Bala	UGC Rank holder's scholarship, NET-June. 2013	2013	Yes
Taniya Biswas	UGC Lectureship, NET-Dec. 2013	2013	Yes

24. List of eminent academicians and scientists/visitors to the department: Nil

25. Seminars/Conferences/Workshops organized & the source of fundinga) **National:** Nilb) **International:** Nil**26. Student profile programme/ course wise:**

Name of the Course/programme	Applications received	Selected	Enrolled		Pass percentage
			*M	*F	
2012-13 UG Hons.	1,237	47	22	25	100%
2013-14 UG Hons.	1,266	52	30	22	90%
2014-15 UG Hons.	1,164	53	20	33	N.A(result not declared)
2015-16 UG Hons.	1,160	52	24	28	N.A(result not declared)

*M = Male *F = Female

27. Diversity of Students:

Name of the Course	% of students from the same state	% of students from other States	% of students From abroad
2010-2011 Geography Hons.	100	0	0
2011-2012 Geography Hons.	100	0	0
2012-2013 Geography Hons.	100	0	0
2013-2014 Geography Hons.	100	0	0
2014-2015 Geography Hons.	100	0	0

28. How many students have cleared national and state competitive examinations such as NET, SLET, GATE, Civil services, Defense services, etc.?

Name of the Competitive Examination	No. of students passed (in last five years)
NET/SET/SLET	3

29. Student progression: (2011-2015)

Student progression	Against % enrolled
UG to PG	51%
PG to M. Phil.	NA
PG to Ph. D.	NA
Ph.D. to Post-Doctoral	--
Employed	--
• Campus selection	Nil
• Other than campus recruitment	7%
Entrepreneurship/ Self-employment	Nil

30. Details of Infrastructural facilities

- a) **Library:** Yes
- b) **Internet facilities for Staff & Students:** Yes
- c) **Class rooms with LCD facility:** Yes*
* Two class rooms are equipped with mobile LCD facility.
- d) **Laboratories:** One RS_GIS Laboratory

31. Number of students receiving financial assistance from college, university, government or other agencies:

Year	No. of students	Financial assistance		
		College	University	Govt./Other
2010 -11	30	5	-	25
2011 - 12	26	0	-	26
2012 - 13	34	6	-	28
2013 - 14	24	2	-	22
2014 - 15	25	2	-	23

32. Details on student enrichment programmes (special lectures/workshops/ seminar) with external experts:

Student Enrichment Programme	Held on	Title	Funding Agency	External Expert/Resource Person/ Speaker
Special Lecture	2014- 15	The Department organized a special lecture on Climate Change: mitigation and adaptation in Sundarban	College fund	Dr. Chandan Surabhi Das, Taki Government College
Documentary film show	2015-16	The department plans to screen a Documentary - An inconvenient truth	College fund	--

33. Teaching methods adopted to improve student learning:

Power point presentation through LCD Projectors

34. Participation in Institutional Social Responsibility (ISR) and Extension activities:

The department plans to undertake an Awareness Programme on River Bank Erosion in Nadia District of West Bengal as part of Disaster Management programme.

35. SWOC analysis of the department and Future plans:

Strengths	Weaknesses	Opportunities	Challenges
1. A good number of meritorious students are the jewels of this department.	1. Due to increasing number of enrollment of students, the department is facing space crunch especially while conducting practical classes.	1. RS and GIS are currently the two most potential sectors of employment, which may be introduced as a special programme in the future.	1. Managing space is a major challenge
2. The department is enriched by the qualified and energetic full time faculty.	2. The department requires a second RS_GIS lab to cater to the needs of the ever increasing number of students.	2. To develop the department as a centre of excellence in the field of applied research through various projects.	2. Huge funding is required for equipping the computer laboratory especially for purchasing RS and GIS software.
3. Weaker/ needy students get special attention from teachers regarding their study.	3. The department lacks modern equipment for research activities.	3. To strive for socio-economic uplift of the people in and around Barasat through participatory research and awareness programmes.	
4. Apart from teaching, the teachers of the department are also engaged in research work.		4. Computerization of the Seminar Library.	

FUTURE PLANS:

1. Introduction of integrated 5-Year M.Sc. course in Geography.
3. Introducing Diploma course in RS-GIS.
4. Organizing state/national level seminar/symposium.
5. Setting up of e-class room.
6. Improvement of laboratory and infrastructure facility.

7. DEPARTMENT OF HISTORY

1. **Name of the department:** History

2. **Year of Establishment:** 1950

3. **Names of Programmes / Courses offered (UG, PG, M.Phil., PhD, Integrated Masters, Integrated PhD., etc:**

UG (B.A. History Honours and History General)

4. **Names of Interdisciplinary courses and the departments/ units involved:**

None

5. **Annual/ semester/ choice based credit system (programme wise):**

B.A. History Honours/ Annual Examinations (Part I, Part II and Part III).

6. **Participation of the department in the courses offered by other departments:**

History is offered as a General Subject for the following Honours subjects - Bengali, English, Sanskrit, Political Science and Philosophy.

History is also offered as a subject in the B.A. General Course in the Morning Section.

7. **Courses in collaboration with other universities, industries, foreign institutions, etc.:**

None

8. **Details of courses/ programmes discontinued (if any) with reasons:**

N. A.

9. **Number of teaching posts:**

POSTS	SANCTIONED	FILLED
Professor	nil	nil
Associate Professor/ Assistant Professor	04	02

10. Faculty profile with name, qualification, designation, specialization (D.Sc. /D.Litt. /Ph.D./M.Phil., etc.): present and transferred faculty

NAME	QUALIFICATION	DESIGNATION	SPECIALISATION	No. OF YEARS EXPERIENCE
A) CURRENT FULL TIME FACULTY				
Mr. Prabal Bagchi	M.A	Associate Professor	Economic History	19 Years
Mr. Rajkumar Chakrabarti	M.A	Assistant Professor	Late Medieval India	16 Years
B) FULL TIME FACULTY, TRANSFERRED (Since October, 2010)				
Mr Sujit Kundu (Transferred on 8 th June, 2015)	M.A	Assistant Professor	Modern India & Tribal History	6 Months
Mr Samir Mandal (Transferred on 8 th June, 2015)	M A	Assistant Professor	Social & Cultural History	6 Month
Mrs. Nandini Jana (Transferred)	M.A	Assistant Professor	Social History & Women History	14 Years
Dr. Aparna Bandopadhyay (Transferred)	M.A	Associate Professor	Economic History & Gender Study	19 Years
Dr. Narayan Saha (Transferred)	M.A Ph.D.	Associate Professor	Political History	33 years
Dr. Sukanya Dutta (Transferred)	M.A Ph.D.	Associate Professor	Economic History of Modern India	34 Years
Dr. Soumya Goswami (Transferred)	M.A Ph.D.	Associate Professor	Social History	14 years
C) PART-TIME FACULTY, MORNING SECTION				
Mrs. Ellora Biswas	M.A	Part-time Faculty	--	25 Years
Mrs. Rita Chakraborty	M.A	Part-time Faculty	--	20 Years
Ms. Sharmila Chanda	M.A	Part-time Faculty	--	15 Years

11. List of senior visiting faculty: NIL

12. Percentage of lectures delivered and practical classes handled (programme wise) by temporary faculty*:

Name of temporary faculty	Academic Session taught	Programme	Total No. of Classes per week (Theory)	No. of Classes taken per week (Theory)	% of Lectures delivered
Mrs. Ellora Biswas	2010-11	IG, IIG, IIIG	6	6	86
	2011-12	IG, IIG, IIIG	6	6	89
	2012-13	IG, IIG, IIIG	6	6	88
	2013-14	IG, IIG, IIIG	6	6	86
	2014-15	IG, IIG, IIIG	6	6	81
Mrs. Rita Chakraborty	2010-11	IG, IIG, IIIG	6	6	86
	2011-12	IG, IIG, IIIG	6	6	88
	2012-13	IG, IIG, IIIG	6	6	87
	2013-14	IG, IIG, IIIG	6	6	84
	2014-15	IG, IIG, IIIG	6	6	80
Ms. Sharmila Chanda	2010-11	IG, IIG, IIIG	6	6	84
	2011-12	IG, IIG, IIIG	6	6	86
	2012-13	IG, IIG, IIIG	6	6	85
	2013-14	IG, IIG, IIIG	6	6	80
	2014-15	IG, IIG, IIIG	6	6	80

*(The UG General Course in History in the MORNING SECTION is conducted completely by part-time faculties)

13. Student -Teacher Ratio (programme wise)

Session	No. of Students	No. of Teachers	Student-Teacher Ratio
2010-11	130	4	1: 33
2011-12	139	4	1: 35
2012-13	179	2	1: 90
2013-14	191	2	1: 95
2014-15**	197	4	1: 50

** Two newly recruited teachers have since been transferred in June 2015. Therefore the Department currently has two full time faculties. It is expected that new teachers will join the Department soon, thereby keeping the student-teacher ratio at 2014-15 level.

14. Number of academic support staff (technical) and administrative staff; sanctioned and filled:

None

15. Qualifications of teaching faculty with D.Sc./D.Litt./Ph.D./M.Phil./PG:

Highest Qualification	No. of Teaching Faculty (Existing)
Teaching faculty with PG	02

16. Number of faculty with ongoing projects from a) National b) International funding agencies and grants received:

None

17. Departmental projects funded by DST-FIST, UGC, DBT, ICSSR, etc. and total grants received:

None

18. Research Centre / facility recognized by the University:

None

19. Publications:

Total No. of Publications of the Department (teachers' tenure during 2010-15 at Barasat Government College) = 29

Publications details of Faculty:**A) CURRENT FULL TIME FACULTY**

NAME OF FACULTY	No. of papers in Peer reviewed National /International Journal	No. of publications listed in Int. Data base	Monograph	Chapter in Books	Books Edited	Books With ISSN/ISBN No.
Mr. Prabal Bagchi			1	4		1
Mr. Rajkumar Chakarabarti	1			2	1 (jointly)	5

B. Transferred Faculty-members:

NAME OF FACULTY	No. of papers in Peer reviewed National /International Journal	No. of publications listed in Int. Data base	Monograph/ Conference Proceedings	Chapter in Books	Books Edited	Books With ISSN/ISBN No.
Mrs. Nandini Jana			3		1	1
Mrs. Aparna Bandopadhyay			1	3		1
Mrs. Sukanya Dutta				1		
Mr. Sanir Mandal			1	3		

20. Areas of consultancy and income generated:

Nil

21. Faculty as members in a) National committees b) International Committees c) Editorial Boards:

FACULTY	National committees/International Committees /Editorial Boards
Mr. Prabal Bagchi	Member of the following Organizations: Indian History Congress, Paschimbanga Itihas Sansad, Bangiya Sahitya Parishad
Mr. Rajkumar Chakrabarti	Member of the following Organizations: Indian History Congress, Paschimbanga Itihas Sansad, Bangiya Sahitya Parishad

22. Student projects:

Percentage of students who have done in-house projects including inter-departmental/ programme:

1. All students' of this department are involved with the publication of the departmental wall magazine "Itihasyan".

2. Initiative has been taken to engage students in collecting data about important architecture like temple, mosque, old buildings and documentation of oral history of Barasat and adjoining areas.

b) Percentage of students placed for projects in organizations outside the institution i.e. in Research laboratories/Industry/ other agencies:

NIL

23. Awards / Recognitions received by faculty and students:

NIL

24. List of eminent academicians and scientists/visitors to the department:

1. Prof. Subhas Ranjan Chakrabarty, former Associate Professor of History, Presidency College
2. Prof. Sumanta Bandopadhyay, Noted Historian and Cultural Critic, Dehradun

25. Seminars/ Conferences/Workshops organized & the source of funding:

(a) National: 02 (b) International: NIL

Year	Source of Funding
2010	UGC
2012	UGC

26. Student profile programme/ course wise:

Name of the Course/programme History Honours	Applications received	Selected	Enrolled		Pass percentage
			*M	*F	
2012-13	697	63	33	30	95
2013-14	501	71	37	34	100
2014-15	339	63	35	28	98
2015-16	687	77	40	37	--

*M = Male *F = Female

27. Diversity of Students:

Name of the Course	% of students from the same state	% of students from other States	% of students from abroad
B.A. History Honours	100	00	00

28. How many students have cleared national and state competitive examinations such as NET, SLET, GATE, Civil services, Defence services, etc.

During 2010-2015 .there are three students qualified Net and one student passed SLET examination.

29. Student progression:

Student progression	Against % enrolled
UG to PG	55 (Approx)
PG to M.Phil	No data
M. Phil to Ph. D.	No data
Employment	No detailed data

30. Details of Infrastructural facilities:

- Library:** The department has an excellent seminar library having 464 text and reference books in addition to the main library.
- Internet facilities for Staff & Students:** Yes, available.
- Class rooms with ICT facility:** Yes
- Laboratories:** Not Applicable.

31. Number of students receiving financial assistance from college, university, government or other agencies:

Year	Full-free Studentship	Half-free Studentship
2011-12	11(M-9, F-2)	14(M-11, F-3)
2012-13	16(M-11, F-5)	21(M-6, F-15)
2013-14	17(M-7, F-10)	30(M-16,F14)
2014-15	17(M-12, F-5)	17(M-9, F-8)

Note: many students are also recipient of different types of governmental and non-governmental stipends/scholarship, for example -higher education, minority and kanyasree (girl student),SC/ST stipend and Jindal , Mahindra scholarship etc.

32. Details on student enrichment programmes (special lectures / workshops /seminar) with external experts:

- Extension lecture on “French Revolutions” by Prof. Subhas Ranjan Chakrabarty on 9th January, 2015.
- UGC-sponsored National-level seminar on “Women and Literature: Different Faces, Different Voices “on 16th and 17th January, 2012 organized by the Departments of

Philosophy, English, History and Sanskrit in collaboration with School of Women's Studies, Jadavpur University.

3. UGC-sponsored State Level Seminar on “Technologies of Revolution: Society, Economy & Polity” on March 4 & 5, 2010, jointly organized by Barasat Govt. College and Paschimanga Itihas Samsad.

33. Teaching methods adopted to improve student learning:

1. Generally students are taught through regular lecture, seminar, and tutorial and written assignments. Remedial classes for SC/ST, minority and academically weaker students are taken every year.
2. Maps and historical time-charts are used in class lecture whenever necessary.
3. Constant evaluation through class test and Annual examination.
4. Relevant documentary/film screening is an integral part of the methodology.
5. In addition, students are encouraged to access the library for text and references and online source for e-texts. Moreover, additional study material are given to augment their knowledge.
6. Regular excursions/visits to historical places and Museums are held to apprise them about the rich heritage of the country.

34. Participation in Institutional Social Responsibility (ISR) and Extension activities:

Students of the department actively participate in different social responsibility programme organized by the NSS unit and Students' Union of the college.

35. SWOC analysis of the department and Future plans:

Strengths:

1. Highly motivated, sincere and competent faculty.
2. Location of the college as well as its long reputation draws the best and brightest along with a good number of students from underprivileged backgrounds. Many of them are the first generation learners. The department always maintains a good academic profile by securing University ranks in consecutive years.

3. Well stocked seminar library and online access to e-journals and books in the central library through INFLIBNET and online service of the British Council library for teachers and students.
4. Enrolment of girl students shows healthy ratio visa-a-vis male students.
5. Parent-teacher meetings offer valuable inputs for both sides.
6. The students actively participate in different co-curricular and extracurricular activities.

Weaknesses:

1. A large number of students come from economically very weak background and their hardships for livelihood sometimes affect their performance in the Honours course.
2. Many students are very weak in English and reluctant to read reference books in English.
3. Lacks the requisite teaching strength, thereby hampering the teaching learning process and making syllabus completion extremely difficult for the existing faculty.
4. The examination system of the parent university has reduced the number of total classes in the academic year and this has hindered discussion of topics beyond the syllabus.

Opportunities:

1. Excellent student-teacher interaction that is constructive in orienting students towards higher studies, research and in general shaping their careers.
2. Well organized seminars & workshop enlightens students about the subject in a multifaceted fashion.
3. Studying history at the undergraduate level can be made more meaningful not only as a movement towards further studies but also as a resource for diversification to studies in archaeology and museology.

Challenge:

1. Strict discipline among students is to be maintained to ensure a healthy academic environment in the department.
2. Empowerment of women through education difficult since majority of the girl students are from educationally and economically backward community structure.
3. Scope of orienting students towards higher studies is limited due time constraints.

Future Plans:

1. Encourage students to participate in group discussions to develop their communication skill and critical thinking.
2. Up gradation of one classroom dedicated for UG with multimedia facilities to enhance the quality of teaching using audio-visual aids
3. Plan to publish a departmental journal with writings from students and teachers provided funds are available.
4. A project for local history will be taken by the students under the guidance of the teachers of the department.
5. Organize State/ National/ International level seminar and workshop.
6. Bring the under achievers to the mainstream and provide remedial/ tutorials to clear doubts. Special class to be held to complete syllabus within the short time schedule in addition to regular classes.
7. Strengthen and encourage faculty research and publication in peer reviewed journal.

8. DEPARTMENT OF MATHEMATICS

1. Name of the department: MATHEMATICS

2. Year of Establishment: 1950

3. Names of Programmes / Courses offered (UG, PG, M.Phil., Ph.D., Integrated Masters, Integrated Ph.D., etc.):

UG (B.Sc. Mathematics Honours and Mathematics General)

4. Names of Interdisciplinary courses and the departments/ units involved:

None

5. Annual/ semester/ choice based credit system (programme wise):

B.Sc. Mathematics Honours: Annual Examinations (Part I, Part II and Part III)

B.Sc. Mathematics General: Annual Examinations (Part I, Part II and Part III)

6. Participation of the department in the courses offered by other departments:

Physics General, Chemistry General

7. Courses in collaboration with other universities, industries, foreign institutions, etc.:

NIL

8. Details of courses/ programmes discontinued (if any) with reasons:

NIL

9. Number of teaching posts:

POSTS	SANCTIONED	FILLED
Professor	NIL	NIL
Associate Professor	05	01
Assistant Professor		04

10. Faculty profile with name, qualification, designation, specialization (D.Sc/ D.Litt./ Ph.D./ M.Phil. etc.):

NAME	QUALIFICATION	DESIGNATION	SPECIALISATION	NO. of YEARS EXPERIENCE	NO. OF PhD STUDENTS
A) CURRENT FULL TIME FACULTY					
Dr. Nisith Ch. Das	M.Sc., M.Phil, Ph.D.	Associate Professor	Computer Science and Cybernetics <u>Research Area:</u> Maximum entropy principle: Characterization and Application	24 years	Nil
Sri Jayanta Biswas	M.Sc., M.Tech.	Assistant Professor	<u>Research Area:</u> Abstract Algebra : Binary Relation, Semigroup, Group Linear Algebra: Matrix Algebra. Number Theory : Collatz Conjecture	15 years 7 months	Nil
Dr. Prasanta Paul	M.Sc., Ph.D.	Assistant Professor	Computer Science and Cybernetics <u>Research Area:</u> Ordering and Ageing Properties of Reliability Theory, Entropy and Information Theory	5 years 10 months	Nil
Dr. Indranath Bhattacharyya	M.Sc., Ph.D.	Assistant Professor	Quantum Mechanics <u>Research Area:</u> Theoretical Physics, Cosmology and Astroparticle Physics	09 years	Nil
Dr. Shobhan Mandal	M.Sc., Ph.D.	Assistant Professor	Complex Analysis and Representation Theory <u>Research Area:</u> Abstract Algebra: Ring, Semiring and Semigroup theory	02 years	Nil
B) FULL TIME FACULTY TRANSFERRED (Since October 2010)					
Dr. Gurudas Ghosh	M.Sc., Ph.D.	Associate Professor	Magneto Hydrodynamics and Plasma	29 years	Nil
Dr. Syamali Bhadra	M.Sc., M.Phil., Ph.D.	Associate Professor	Mathematical Biology	18 years	Nil

C) PART-TIME FACULTY/GUEST FACULTY (Day)					
Dr. Bithi Ganguly*	M.Sc., Ph.D.	Retd.	Elasticity and Plasticity	33 years	Nil
D) PART-TIME FACULTY/GUEST FACULTY (Morning)					
Dr. Schindra Nath Maity*	M.Sc., Ph.D.	Retd.	Differential Geometry	32 years	01
Sri Sumanta Giri* ¹	M.Sc.	Retd.	Complex Analysis	33 years	Nil

11. List of senior visiting faculty: NIL

12. Percentage of lectures delivered and practical classes handled (programme wise) by temporary faculty:

Name of temporary faculty with Qualification	Designation	Programme	Academic Session Taught	Total No. of classes in the Departmental Routine		Total No. of classes taught by temporary faculty		Percentage of lectures delivered	
				Hons.	Gen.	Hons.	Gen.	Hons.	Gen.
Dr. Bithi Ganguly	Part-time Faculty	B.A. Hons & General	2011-12	2210	1229	268	0	12%	0
			2012-13	2220	1245	276	0	12%	0
			2013-14	2180	1241	288	0	13%	0
			2014-15	2200	1261	270	0	12%	0
Dr. Sachindra Nath Maity	Part-time Faculty	B.A. Hons & General	2011-12	2210	1229	0	498	0	40%
			2012-13	2220	1245	0	488	0	39%
			2013-14	2180	1241	0	476	0	38%
			2014-15	2200	1261	0	472	0	37%
Sri Sumanta Giri	Part-time Faculty	B.A. Hons & General	2011-12	2210	1229	0	482	0	39%
			2012-13	2220	1245	0	478	0	38%
			2013-14	2180	1241	0	470	0	38%
			2014-15	2200	1261	0	492	0	39%

*They have served the College till 31st March, 2015.

13. Student-Teacher Ratio (programme wise):

Academic Session	Programme	No. of Students	No. of Teachers (at the beginning of Session)	Student: Teacher Ratio
2010-2011	UG Hons.	108	4	27:1
2011-2012	UG Hons.	150	5	30:1
2012-2013	UG Hons.	141	5	28:1
2013-2014	UG Hons.	138	5	28:1
2014-2015	UG Hons.	143	5	29:1

14. Number of academic support staff (technical) and administrative staff; sanctioned and filled:

Post	Sanctioned	Filled
Academic support staff (technical)	0	0
Administrative staff	0	0

15. Qualifications of teaching faculty with D.Sc./D.Litt./Ph.D./M.Phil./PG:

Highest Qualification	No. of Teaching Faculty (Existing)
D.Sc./D.Litt.	0
Ph.D.	4
M. Phil./M.Tech.	1
PG	0

16. Number of faculty with ongoing projects from a) National b) International funding agencies and grants received: 01

Faculty	Title of the project	Duration	Funding Agency	Grant Sanctioned	Grant Received
Dr. Prasanta Paul	<u>On some entropy-based measure of uncertainty and their properties</u>	2 years	UGC [Sanction Number: F.No.PSW-165/14-15(ERO) dated: 03.02.2015]	1,70,000/-	1,52,500/-

17. Departmental projects funded by DST-FIST, UGC, DBT, ICSSR, etc. and total grants received:

None

18. Research Centre / facility recognized by the University:

None

19. Publications:

Total No. of Publications of the Department (2010-15, during the teachers' tenure at Barasat Government College) = 19

Publications details of Faculty:**A) CURRENT FULL TIME FACULTY**

NAME OF FACULTY	No. of papers in Peer reviewed National /International Journal	No. of publications listed in Int. Data base	Monograph	Chapter in Books	Books Edited	Books With ISSN/ISBN No.	Citation Index	SNIP	SJR	Impact Factor	H- Index
Dr. Prasanta Paul	5 (National)	-	-	-	-	-	-	-	-	-	-
Sri Jayanta Biswas	3 (National)	-	-	-	-	-	-	-	-	-	-
Dr. Indranath Bhattacharyya	5 (international)	-	-	-	-	-	-	-	-	-	-
Dr. Shobhan Mandal	5 (international) 1 (national)	-	-	-	-	-	-	-	-	-	-

20. Areas of consultancy and income generated:

Sri Jayanta Biswas

Name of Examination	Date	Organized by	Brief Description of the assignment
Class XII Exam. - 2012	14, 16, 19, 21, 23, 26, 29, 31 st March, 2012; And 2, 4, 7 th April, 2012	WBCHSE	Centre-In-Charge of TAKI Centre, Taki, North 24 Parganas.
12 th RLST-2011	29.07.2012	West Bengal School Service Commission	Centre-In-Charge of Barasat Govt. College centre.

Multi-Tasking (non-technical) Staff Exam.-2013	24.03.2013	Staff Selection Commission	Venue-In-Charge of Barasat Govt. College venue
WBCS (Exe) Etc. (Preliminary) Exam.-2013	07.04.2013	West Bengal PSC	Supervisor of Barasat Govt. College centre.
S.I & Lady S.I. -2013	18.08.2013	West Bengal Police Dept	Venue-In-Charge of Barasat Govt. College venue
RRC CAL Exam.	27.10.2013	Railway Recruitment Cell	Venue-In-Charge of Barasat Govt. College venue
RRC CAL Exam.	17.11.2013	Railway Recruitment Cell	Venue-In-Charge of Barasat Govt. College venue
RRC CAL Exam.	24.11.2013	Railway Recruitment Cell	Venue-In-Charge of Barasat Govt. College venue
RRC CAL Exam.	01.12.2013	Railway Recruitment Cell	Venue-In-Charge of Barasat Govt. College venue
RRC CAL Exam.	08.12.2013	Railway Recruitment Cell	Venue-In-Charge of Barasat Govt. College venue
17 th SET Exam - 2013	15.12.2013	West Bengal College Service Commission	Coordinator of Barasat Govt. College Centre
Madhyamik Pariksha - 2014	24, 25, 26, 28 th February, 2014 and 1, 3, 4, 5, 6 th March, 2014	WBBSE	Officer-In-Charge of Barasat Centre
RRC-ER Exam	02.11.2014	Railway Recruitment Cell	Venue-In-Charge of Barasat Govt. College venue
RRC-ER Exam	09.11.2014	Railway Recruitment Cell	Venue-In-Charge of Barasat Govt. College venue
RRC-ER Exam	16.11.2014	Railway Recruitment Cell	Venue-In-Charge of Barasat Govt. College venue
RRC-ER Exam	23.11.2014	Railway Recruitment Cell	Venue-In-Charge of Barasat Govt. College venue
RRC-ER Exam	30.11.2014	Railway Recruitment Cell	Venue-In-Charge of Barasat Govt. College venue
18 th SET Exam – 2014	14.12.2014	West Bengal College Service Commission	Officer-In-Charge of Barasat Govt. College Centre
RRC-ER Exam	15.02.2015	Railway Recruitment Cell	Venue-In-Charge of Barasat Govt. College venue

Madhyamik Pariksha - 2015	23, 24, 25, 27, 28 th February, 2015 and 2, 3, 4 th March, 2015	WBBSE	Officer-In-Charge of Barasat Centre
Mathematics Part-III Practical Examination	Sessions : 2013-14 and 2014-15	W.B.S.U.	Internal Examiner
5 th Paper, 6 th Paper, 1 st Paper, 2 nd Paper of Mathematics Honours	Sessions : 2013-14 and 2014-15	University of Gourbanga	Moderator
“Yuba Samsad o Quiz Pratijogita”	On 17.12.2012	Barasat Municipality, North 24 Parganas	Jury Member
“District Students Science Seminar – 2013”. Topic was “Water Cooperation”	On 29.08.2013	Dept. Of Youth Services	Judge
West Bengal State Students-Youth Science Fair – 2013 on behalf of North 24 Parganas District	2013	Dept. Of Youth Services	Joint Convenor
Science Model under Inspire Award Programme	15.09.2014	Barasat Mahatma Gandhi Memorial High School, Conducted by Govt. Of West Bengal through Office of the District Inspector of Schools (SE), North 24 Parganas. This programme had been introduced by the Department of Science and Technology, Govt. Of India.	Jury Member

Dr. Indranath Bhattacharyya

1. Inspection of 5 Schools in the Alipurduar District, West Bengal employed by The Secretary, West Bengal State Commission for Protection of Child Rights in 2014-2015.
2. a) Chaired as judge for District level Student Science Fair-2014 held on **04.09.2014** at Siliguri Girl's School, Darjeeling District.

b) Chaired as judge for District Student Science Seminar-2013 held on **30.08.13** at Islampur College, Uttar Dinajpur District.

c) Chaired as judge for District level Student Science Fair-2013 held on **06.09.13** at Siliguri Mahila Mahavidyalaya, Darjeeling District.

d) Chaired as judge for District Student Youth Science Fair-2012 held on **26.07.12** at A.P.C Roy Govt. College, Siliguri, Darjeeling District.

3. Acted as University Station Supervisor (USS) in the Siliguri Institute of Technology (SIT) for the Even Semester University Examination 2013-14, appointed by West Bengal University of Technology (WBUT).

21. Faculty as members in

a) National committees b) International Committees c) Editorial Boards

NAME OF FACULTY	National committees/International Committees /Editorial Boards....
Sri Jayanta Biswas	Associate Editor of Editorial Board of Barasat Govt. College Journal "AUREOLE", ISSN : 0976 - 9625

22. Student projects:

NIL

b) Percentage of students placed for projects in organizations outside the institution i.e. in Research laboratories/Industry/ other agencies:

NIL

23. Awards/Recognitions received by faculty and students:

Dr. Shobhan Mandal Assistant Professor (WBES)	Ph.D. degree awarded in 2014 by the University of Calcutta.
--	---

24. List of eminent academicians and scientists/visitors to the department:

NIL

25. Seminars/Conferences/Workshops organized & the source of funding

a) National: NIL

b) International: NIL

26. Student profile programme/ course wise:

Name of the Course/programme	Applications received	Selected	Enrolled		Pass percentage
			*M	*F	
2012-2013	339	47	30	17	100%
2013-2014	615	46	32	14	100%
2014-2015	452	50	33	17	100%
2015-16	1018	61	35	26	--

*M = Male *F = Female

27. Diversity of Students:

Name of the Course	% of Students from the same state	% of students from other States	% of students From abroad
UG Mathematics Hons.	100%	0%	0%

28. How many students have cleared national and state competitive examinations such as NET, SLET, GATE, Civil services, Defence services, etc.

Name of the Competitive Examination	No. of students passed (in last five years)
JAM	11
NET	2
NBHM	1
UPSC	1
SSC	5
BANK	1

29. Student progression: (2011-2015)

Student progression	Against % enrolled
UG to PG	85%
PG to M. Phil.	-
PG to Ph. D.	-
Ph.D. to Post-Doctoral	-
Employed • Campus selection • Other than campus recruitment	-
Entrepreneurship/ Self-employment	-

30. Details of Infrastructural facilities

a) **Library:** The department has newly established seminar library with good number of text for the students. At present there are 150 books. The students are allowed to borrow books for a month.

b) **Internet facilities for Staff & Students:** This department is under wi-fi zone. Student and faculty members are using internet facility for their academic purpose at any time during college hour.

c) **Class rooms with ICT facility:** The department has one E-class room, where through LCD projector classes are conducting.

d) **Laboratories:** The department has a rich computer laboratory with 15 computers and any student can use them for computer practical classes and for net surfing purpose to upgrade their knowledge about the subject.

31. Number of students receiving financial assistance from college, university, government or other agencies:

Session	Name of the scholarship/Studentship	No. of Students receiving financial assistance		
		Total	Male	Female
2011-12	Half-free	04	01	03
	Full-free	11	08	03
2012-13	Half-free	05	05	00
	Full-free	09	08	01
2013-14	Half-free	05	05	00
	Full-free	02	01	01
2014-15	Half-free	00	00	00
	Full-free	09	08	01

32. Details on student enrichment programmes (special lectures/workshops/ seminar) with external experts:

NIL

33. Teaching methods adopted to improve student learning:

For the teaching purpose, besides the black board methods, more modern methods which include charts, models, over-head, LCD/DL projector etc. are used to make teaching more attractive and fruitful to the students. Teachers of this department are planning to upload their study material on college website for free access of the students those who are unable to attend the particular class for some reasons and also for those students who are unable to follow the class properly.

34. Participation in Institutional Social Responsibility (ISR) and Extension activities:

Students of the department actively participate in various awareness programmes and extension activities like Blood donation, plantation in the campus etc organised by NSS committee in and outside the college campus.

35. SWOC analysis of the department and Future plans:

Strengths	Weaknesses
1. Full strength of faculty which maintain healthy teacher & student ratio.	1. Frequent transfer of the faculty even in the middle of a session is creating adaptation problem for the students which is breaking healthy teaching environment.
2. All faculties are having Ph.D. or M.Tech. degree.	
3. A well facilitate A.C. Computer Lab with Internet Connectivity.	
4. Students are securing good result in university.	2. OBC reservation policy which is making the students beyond class room or Lab capacity.
5. Students are performing well in all India level exams.	
Opportunity	Challenges
1. We have to prepare students for National level exams.	Too many classes for a faculty which is affecting time for research.
2. By providing online resources we can enrich education system.	

Future Plan:

Proposal for introduction of P.G. courses in the department and also to give support for opening of the professional courses like BCA and MCA.

9. DEPARTMENT OF PHYSICS

1. **Name of the department:** Physics

2. **Year of Establishment:** 1957 (PG: 2010)

3. **Names of Programmes / Courses offered (UG, PG, M.Phil., Ph.D., Integrated Masters, Integrated Ph.D., etc.):** UG and PG

4. **Names of Interdisciplinary courses and the departments/ units involved:** None

5. **Annual/ semester/ choice based credit system (programme wise):**

B.Sc. – Physics (Honours), B.Sc. (General) ; Both 3-years course with annual evaluation
M. Sc-- Semester based evaluation.

6. **Participation of the department in the courses offered by other departments:**

Physics General course to Chemistry (Hons.) ,Math (Hons.) students and General degree students.

7. **Courses in collaboration with other universities, industries, foreign institutions, etc.:**
None

8. **Details of courses/ programmes discontinued (if any) with reasons:** NA

9. **Number of Teaching posts:**

POSTS	SANCTIONED	FILLED
Professor	1	1
Associate Professor	11	2
Assistant Professor		9

10. Faculty profile with name, qualification, designation, specialization (D.Sc/ D.Litt./ Ph.D./ M.Phil. etc.):

NAME	QUALIFICATION	DESIGNATION	SPECIALISATION	EXPERIENCE (Years)	NO. OF PhD STUDENTS
A) CURRENT FULL TIME FACULTY					
Pradip Mukherjee	Ph.D	Professor	High Energy Physics	26	2 awarded 1 registered.
Shilabhadra Chatterjee	Ph.D	Associate Professor	Nuclear Physics	20	-----
Ajita Sengupta	Ph.D	Associate Professor	Condensed Matter Physics	16	-----
Dhananjay Roy	Ph.D	Assistant Professor	Condensed Matter Physics	13	-----
Shankar Mandal	Ph.D	Assistant Professor	Condensed Matter Physics	13	-----
Mina Majumder	M.Sc.	Assistant Professor	Electronics	09	-----
Srijit Bhattacharya	Ph.D	Assistant Professor	Nuclear Physics	09	-----
Somenath Bhattacharya	Ph.D	Assistant Professor	Statistical Physics	8	-----
Sutapa Bhattacharya	Ph.D	Assistant Professor	Astrophysics	5	-----
Jyotirmoy Maiti	Ph.D	Assistant Professor	High Energy Physics	5.5	-----
Amit Singha Roy	M.Sc.	Assistant Professor	Gravitation and cosmology	6	-----
Sudip Mukherjee	M.Sc.	Assistant Professor	Statistical Physics		-----
B) FULL TIME FACULTY TRANSFERRED (Since October 2010)					
Biplab Chattopadhyay	Ph. D.	Associate Professor	Condensed Matter Physics	Transferred	-----
Gautam Goswami	Ph.D.	Associate Professor	Statistical Mechanics	-do-	-----
Subhasis Chakraborty	Ph. D.	Associate Professor	Condensed Matter Physics	-do-	-----
Debapriyo Syam	Ph. D.	Associate Professor	Nuclear Physics	Retired	-----
C) GUEST FACULTY (PG Section)					
Subhas Chandra Kar	Ph. D.	Guest faculty	Electronics	Retired after full service in W.B.E.S	--
Swapn Kr. Das	Ph. D.	Guest faculty	Condensed Matter Physics	Retired after full service in W.B.E.S	--

Prabir Pal	Ph.D.	Guest faculty	High Energy Physics	Retired after full service in non government College	---
Debapriyo Syam	Ph. D.	Guest faculty	Nuclear Physics	Retired after full service in W.B.E.S	--
Pradip Kr. Datta	Ph.D	Guest faculty	High Energy Physics	Retired after full service in non government College	---

11. List of senior visiting faculty:

Name of the department	Name of Academician	Title/ Topic of Lecture	Year	Any other details.
Physics	Professor Sibaji Raha Director, Bose Institute	A talk on INO project	2014	--
Physics	Professor G.P. Das Indian Association for the Cultivation of Science	Graphene-A new material	2014	--
Physics	Professor Rabin Banerjee Dean Faculty S. N. Bose Center for Basic Sciences	Some topics on blackhole physics	2014, 2015	--
Physics	Professor Soumitra Sengupta Indian Association for the Cultivation of Science	Special Lecture	2013	---
Physics	Dr. Deepak Pandit Scientist E, VECC	Special Lecture	2015	--
Physics	Dr. S. R. Banerjee Scientist H ⁺ , VECC	Special Lecture	2015	--

12. Percentage of lectures delivered and practical classes handled (programme wise) by temporary faculty:

There is no temporary faculty for the UG Section.

The department has no part-time faculty. However, in the PG Section, eminent retired teachers are invited for teaching as guest faculty. At present there are five guest faculties as reported above. In the following table their percentage share of classes are shown per week basis.

Name of temporary faculty with Qualification	Designation	Programme	Academic Session Taught	Total No. of classes in the Departmental Routine		Total No. of classes taught by temporary faculty		Percentage of lectures delivered (%)
				Theo	Prac	Theo	Prac	
Dr. Pradip Kr. Dutta	Guest faculty	PG	2011-12	-----	-----	-----	-----	-----
			2012-13	-----	-----	-----	-----	-----
			2013-14	-----	-----	-----	-----	-----
			2014-15	35	30	2	-----	5.7(th)
Dr. Subhas Kar	Guest faculty	PG	2011-12	-----	-----	-----	----	-----
			2012-13	35	30	1	3	2.8(th) 10(pr)
			2013-14	35	30	1	3	2.8(th) 10(pr)
			2014-15	35	30	1	3	2.8(th) 10(pr)
Dr. Swapan Das	Guest faculty	PG	2011-12	-----	-----	-----	-----	-----
			2012-13	35	30	2	NIL	5.7(th)
			2013-14	35	30	2	NIL	5.7(th)
			2014-15	35	30	2	NIL	5.7(th)
Dr. Prabir Pal	Guest faculty	PG	2011-12	-----	-----	-----	-----	-----
			2012-13	-----	-----	-----	-----	-----
			2013-14	35	30	1	NIL	2.8(th)
			2014-15	35	30	2	NIL	5.7(th)
Dr. Debapriyo Syam	Guest faculty	PG	2011-12	-----	-----	-----	-----	
			2012-13	-----	-----	-----	-----	
			2013-14	37	Nil	37	NIL	
			2014-15	-----	-----	-----	-----	

13. Student-Teacher Ratio (programme wise):

Academic Session	Programme	No. of Students	No. of Teachers (at the beginning of Session)	Student: Teacher Ratio
2011-2012	UG Hons.	94	12	8:1
	PG	40	15	3:1
2012-2013	UG Hons.	103	10	10:1
	PG	40	14	3:1
2013-2014	UG Hons.	107	9	12:1
	PG	40	14	3:1
2014-2015	UG Hons.	106	9	12:1
	PG	40	14	3:1

14. Number of academic support staff (technical) and administrative staff; sanctioned and filled:

Post	Sanctioned	Filled
Academic support staff (technical)	0	0
Administrative staff	3	2

15. Qualifications of teaching faculty with D.Sc./D.Litt./Ph.D./M.Phil./PG:

Highest Qualification	No. of Teaching Faculty (Existing)
D.Sc./D.Litt.	None
Ph.D.	09 +05 (guest faculties)
M. Phil.	-----
PG	03

16. Number of faculty with ongoing projects from a) National b) International funding agencies and grants received: Three

Research project details.

Faculty	Title of the project	Duration	Funding Agency	Grant Sanctioned (Rs)	Grant Received (Rs)
Dr. Sankar Mandal	Development of Cathode Materials of Lithium ion Battery as a Source of Alternative Power Storage System.	2015-2017	UGC	4,20,000	3,10,000
Dr. Somnath Bhattacharya	Early stage dynamics of nonlinear systems and its effect on related properties.	2015-2017	UGC	1,50,000	1,15,000
Dr. Srijit Bhattacharya	Analysis of cellular phone tower radiation in residential area and its possible effect on human	2015-2017	UGC	2,45,000	187000

17. Departmental projects funded by DST-FIST, UGC, DBT, ICSSR, etc. and total grants received:

None

18. Research Centre / facility recognized by the University:

None

19. Publications:

Total No. of Publications of the Department (2010-15, during the teachers' tenure at Barasat Government College) = **42**

Publications details of Faculty:**A) CURRENT FULL TIME FACULTY**

NAME OF FACULTY	No. of papers in Peer reviewed National /International Journal	No. of publications listed in Int. Data base	Monograph	Chapter in Books	Books Edited	Books With ISSN/ISBN No.	Citation Index	SNIP	SJR	Impact Factor	H- Index
Pradip Mukherjee	26	26					513			113.260	13
Shilabhadra Chatterjee	07	07					30			28.2	04
Ajita Sengupta	12	09					57			20.68	05
Dhananjoy Roy	14	14					63			23.568	1
Sankar Mandal	21	21				1	625			67.02	11
Mina Majumder	02	02					8			5.6	2
Srijit Bhattacharya	21	19		1			169			63.0	9
Somenath Bhattacharya	4	2					12			4.383	2

Sutapa Ghosh	12	12					073			31.80	5
Jyotirmoy Maity	11	11					052			58.050	6
Amit Singha Roy	01	01								5.084	
Sudip Mukherjee	02	01					4			1.399	2

20. Areas of consultancy and income generated:

None

21. Faculty as members in

a) National committees b) International Committees c) Editorial Boards, d) Others

NAME OF FACULTY	National committees/International Committees /Editorial Boards
Pradip Mukherjee	Member IAGRG
Subhasis Chakraborty (Transferred)	Member IAPT
Debapriyo Syam (Guest Faculty)	Member board of studies (UG) of WBSU, Barasat

22. Student projects: The PG students are required to do project work as partial fulfilment of M. Sc. Semester IV course. The evaluation is done on the basis of internal assessment and a power point presentation of 30 minutes including question session.

Details of the project works are given in the *Annexure-1*

b) Percentage of students placed for projects in organizations outside the institution i.e. in Research laboratories/Industry/ other agencies: 17%

23. Awards/Recognitions received by faculty and students:

Pradip Mukherjee, Visiting Associateship, IUCAA, Pune.

24. List of eminent academicians and scientists/visitors to the department: Same as 11

25. Seminars/Conferences/Workshops organized & the source of funding:

The department has regularly organized Seminars. Symposia etc. as detailed below. These were financed by the College and as such cannot be categorized.

1. One day seminar on 'physics teaching methodology'
Speakers – Dr. Birendranath Das (Presidency University), Dr. Bhupati Chakraborty (City, College, Kolkata), Dr. Surajit Chakraborty (Maharaja Manindra Chandra College, Kolkata), Dr. Syed Minhaz Hossain (IEST, Shibpur).
21.01.12
2. Seminar lecture on 'Why do we require optics in computing'
Speaker- Dr. Tanay Chakraborty (WBPDC, Kolaghat)
03.10.12.
3. Seminar lecture on 'The amazing story of the Higgs boson'
Speaker-- Professor Soumitra Sengupta (Indian Association for the Cultivation of Science)
13.10.12.
4. Seminar lecture on 'Indian initiative in neutrino research'
Speaker-- Dr. Kolahal Bhattacharya (TIFR)
16.01.13.
5. One day seminar on 'Recent trends in physics'
Speakers-- Professor Rabin Banerjee (S N Bose National Centre for Basic Sciences)
Professor Sibaji Raha (Director, Bose Institute, Kolkata)
Professor G. P. Das (Indian Association for the Cultivation of Science)
31.08.2013
6. Seminar lecture on 'Effect of projectile breakup on fission fragment mass distribution in ${}^6,7\text{Li} + {}^{238}\text{U}$ reactions'
Speaker: Mr. Dipayan Chattopadhyay (BARC)
02.08.2014

26. Student profile programme/ course wise:

Name of the Course/programme	Applications received	Selected	Enrolled		Pass percentage
			*M	*F	
2012-2013 (UG)	346	37	25	12	100
2013-2014 (UG)	331	33	30	3	100
2014-2015 (UG)	392	36	29	7	100
2015-16 (UG)	737	51	40	11	--

Name of the Course/ programme	Applications received	Selected	Enrolled		Pass percentage
			*M	*F	
2010-2011 (PG)	185	20	17	3	NA
2011-2012 (PG)	183	20	11	9	NA
2012-2013 (PG)	176	20	15	5	100
2013-2014 (PG)	178	20	19	-----	75
2014-2015 (PG)	153	22	14	6	100

*M = Male *F = Female

27. Diversity of Students

Name of the Course	% of students from the same state	% of students from other States	% of students From abroad
UG	100	NIL	NIL
PG	100	NIL	NIL

28. How many students have cleared national and state competitive examinations such as NET, SLET, GATE, Civil services, Defence services, etc. ?

Name of the Competitive Examination	No. of students passed (in last five years)
CSIR NET	3
GATE	1
JEST & IIT JAM	8
IUCAA (Pre-selected)	1
WB School Service Commission	2

29. Student progression: (2011-2015)

Student progression	Against % enrolled
UG to PG	90%
PG to M. Phil.	None
PG to Ph. D.	15%
Ph.D. to Post-Doctoral	100%
Employed • Campus selection • Other than campus recruitment	Information not available
Entrepreneurship/ Self-employment	-do-

30. Details of Infrastructural facilities:

a) **Library:** Seminar Library: The seminar libraries are kind of extensions of the main library. Books are borrowed from the main library and entered in the stock of the seminar library. The departmental seminar library has sufficient text and reference books to meet the students' requirements. All students of the PG course and Honours stream use the library regularly. One of the faculty members conducts the library works as seminar in charge.

b) **Internet facilities for Staff & Students:** A central computer room has been established in the department. The department has 14 desktop computers of which 7 have active internet connection, 4 printers and one Ricoh copiers/scanners and another copier. Most of the Department is endowed with Wi-Fi facility as part of the networking done under the DST-FIST assistance received by the college.

c) **Class rooms with ICT facility:** Modern teaching methods like Over-Head projector, Slide projector and Computer devices like digital visualizer are employed. A seminar cum class-room with LCD projector facility is there for use as research group discussion room as well as for audio-visual class room. The Internet facility is widely used for individual training of the students.

d) **Laboratories:** The Physics Department has 4(four) laboratories and 2(two) dark rooms for undergraduate Honours and General Practical classes. This includes one electronics lab and one optics lab for the 3rd year Honours students. Two other laboratories are assigned to the 1st year and the 2nd year students. The laboratory for general experiments is used by the 1st year Honours and General students also. The laboratories are well equipped. The instruments are well maintained by one skilled bearer and one bearer in the day section and one bearer in the morning section. The yearly grants from Government of West Bengal and UGC are utilized to upgrade the laboratories. The faculty members actively participate and give their suggestions in this process.

In the PG section there is a general and electronics laboratory that caters the requirement of the Semester I and II students. One advanced condensed matter laboratory and one project laboratory have been developed.

Advanced laboratories: The department has a scanning tunnelling electron microscope, an F.T.I.R, an UV-Vis spectrophotometer, material preparation furnace and ovens, battery tester and MHz-GHz spectrum analyser among the state of the art facilities.

We also have a large astronomical telescope (Reflecting type), which is used in sky watching programmes in connection with interesting celestial events.

31. Number of students receiving financial assistance from college, university, government or other agencies:

Year	Financing agency		Number of students	
			Male	Female
2011-12	College	Half free	1	1
		Full free	5	0
	DST inspire			
	Indira Gandhi single girl child scholarship			
2012-13	College	Half free	1	0
		Full free	2	0
	DST inspire		2	1
	Indira Gandhi single girl child scholarship			
2013-14	College	Half free	1	0
		Full free	0	0
	DST inspire		1	0
	Indira Gandhi single girl child scholarship			
2014-15	College	Half free	4	0
		Full free	2	0
	DST inspire		1	1
	Indira Gandhi single girl child scholarship		NA	1

32. Details on student enrichment programmes (special lectures/workshops/ seminar) with external experts:

Student Enrichment Programme	Held on	Title	Funding Agency	External Expert/Resource Person/ Speaker
Methodology of Physics teaching	21.1.12	Physics teaching methodology	College	Dr. Birendranath Das (Presidency University), Dr. Bhupati Chakraborty (City, College, Kolkata), Dr. Surajit Chakraborty (Maharaja Manindra Chandra College, Kolkata), Dr. Syed Minhaz Hossain (IEST, Shibpur)
Ex-students' seminar	02.08.2014	Effect of projectile breakup on fission fragment mass distribution	do	Mr. Dipayan Chattopadhyay (BARC)

33. Teaching methods adopted to improve student learning:

1. PowerPoint presentation, 2. Java simulation of basic physics and instruments, 3. Computer interfacing using Python language.

34. Participation in Institutional Social Responsibility (ISR) and Extension activities:

Dr. Srijit Bhattacharya of our department performed as a judge at the District Students Science Seminar, 2012 and 2014 organized by District Youth Organization.

35. SWOC analysis of the department and Future plans:

Strengths	Weaknesses	Opportunity	Challenge
1. Highly qualified and motivated faculty with the right blend of experience and youth. Apart from the full time faculty members, a very distinguished pool of guest faculties strengthens the teaching-learning process.	1. The tendency of joining engineering and other applied courses is a hindrance to the coherent activities in the undergraduate section.	There are opportunities to eliminate the weaknesses. The tendency of the under-graduates to leave physics may be combated by bringing the very interesting front line discoveries and challenges of physics to the freshers.	To avail the opportunities the faculty is required to make the teaching materials more interesting and use infrastructural facilities more efficiently
2. Meritorious students, a large section of whom coming from rural population find the department a natural choice.	2. Number of faculty members is not sufficient to deliver personal guidance to the students.	2. The government is aware of the problems and we hope we action will be taken.	
3. Infrastructural facilities like good lecture rooms, seminar library, well equipped laboratories, computer lab, high speed wi-fi network facility and a project laboratory equipped with state-of-the-art experimental setup.	3. There is no technical staff in the department. Also administrative staff are all group – D cadre.	3. Same as 2.	

Future Plan of action of the department

The future plan of action can be briefly organized in the following points:

1. Efforts will be taken to improve the undergraduate teaching. A student in the first year of physics comes with many fascinating ideas. But the curricula naturally are based to give them a solid training of techniques which have evolved over the last 300 years. To bridge this gap we plan to arrange for a coherent series of lectures at the beginning level by experts in various fields. The second year B.Sc. Students will also be benefited by such lecture series.
2. The advanced undergraduate and post graduate students need to know what opportunities of research are there in our country. We have already started organizing seminars and one day lectures for this purpose but due to various reasons regularity could not be maintained. Our future plan is to regularize and expand the scope of these activities.
3. In the previous years we have tried to form research groups from our departmental pool of faculty. Presently, a cosmology group is working and also more collaborative approach has evolved in people working in experimental physics. Group activities of people working in different areas but using common technique and facilities are our goal.
4. The annual research output and the quality of it as reflected by the list of publications is certainly incommensurate with the research fund generated by the departmental faculty. Our plan is to give particular attention to it and generate more funds.

10. DEPARTMENT OF POLITICAL SCIENCE

1. Name of the department: POLITICAL SCIENCE

2. Year of Establishment: 1950

3. Names of Programmes / Courses offered (UG, PG, M.Phil., Ph.D., Integrated Masters, Integrated Ph.D., etc.):

UG (B.A. Political Science Honours and Political Science General)

4. Names of Interdisciplinary courses and the departments/ units involved:

None

5. Annual/ semester/ choice based credit system (programme wise):

B.A. Political Science Honours: Annual Examinations (Part I, Part II and Part III)

6. Participation of the department in the courses offered by other departments:

Political Science is offered as a General Subject for the following Honours

Subjects - Bengali, English, History, Sanskrit, Philosophy, Geography, Economics.

Political Science is also offered as a subject in the B.A. General Course, in the Morning Section.

7. Courses in collaboration with other universities, industries, foreign institutions, etc.:

Nil

8. Details of courses/ programmes discontinued (if any) with reasons:

Nil

9. Number of teaching posts:

POSTS	SANCTIONED	FILLED
Professor	0	0
Associate Professor	04	01
Assistant Professor		02

10. Faculty profile with name, qualification, designation, specialization**(D.Sc./D.Litt./Ph.D./M.Phil., etc.):**

NAME OF THE FACULTY	QUALIFICATION	DESIGNATION	SPECIALISATION	NO. of YEARS EXPERIENCE	NO. OF PhD STUDENTS
A) CURRENT FULL TIME FACULTY					
Ranjan Kumar Ray	M.A	Associate Professor	Comparative Politics and Government	32 years	None
Sreemoyee Ghosh	M.A. Regd. for Ph.D	Assistant Professor	Contemporary Indian Society and Politics	9 years 11 months	None
Kinshuk Nandi	M.A. Regd. for Ph.D	Assistant Professor	South Asia	6 years	None
B) FULL TIME FACULTY TRANSFERRED (Since October 2010)					
Dr. Gouri Sankar Nag	Ph. D.	Assistant Professor	Political Theory and International Relations	13 years 6 months (transferred to Government General Degree College, Rajarhat in 2013)	None
Jayanta Joy Chattopadhyay	M.A. M.Phil.	Associate Professor	History of Socialist Thought	32 years (transferred to Durgapur Government College in 2013)	None
C) PART-TIME FACULTY/GUEST FACULTY (Day)					
Mukut Basu	M. A. Regd.for Ph.D	Part-time Faculty	India and her neighbours	7 years	None
Amrita Bandopadhyay	M.A. M.Phil	Part-time Faculty	Cultural Studies	7 years	None
D) PART-TIME FACULTY/GUEST FACULTY (Morning)					
Shilu Ghosh Chakraborty	M. A. B.Ed	Part-time Faculty	Local Government	15 years	None
Munmun Guha	M. A. B.Ed	Part-time Faculty	Local Government	25 years	None

11. List of senior visiting faculty:

None

12. Percentage of lectures delivered and practical classes handled**(programme wise) by temporary faculty:**

Name of temporary faculty with Qualification	Designation	Programme	Academic Session Taught	Total No. of classes in the Departmental Routine (per week)		Total No. of classes taught by temporary faculty(per week)		Percentage of lectures delivered
				Hons.	Gen.	Hons.	Gen.	
Mukut Basu M.A. Regd. for Ph.D	Part-time Faculty	B.A. Hons & General	2011-12	58	08	05	01	9%
			2012-13	55	09	07	01	12.5%
			2013-14	86	09	09	01	10.5%
			2014-15	83	08	09	01	10%
Amrita Banerjee M.A M.Phil	Part-time Faculty	B.A. Hons & General	2011-12	58	08	07	01	12%
			2012-13	55	09	07	01	12.5%
			2013-14	86	09	12	01	13%
			2014-15	83	08	09	01	10%
Channamma Mondal M.A.	Part-time Faculty	B.A. Hons & General	2011-12	58	08	07	00	10%
			2012-13	55	09	05	01	9%
			2013-14	86	09	07	02	9%
			2014-15	83	08	09	01	10%

13. Student-Teacher Ratio (programme wise):

Academic Session	Programme	No. of Students	No. of Teachers (at the beginning of Session)	Student: Teacher Ratio
2010-2011	UG Hons.	112	6	18:1
2011-2012	UG Hons.	131	7	18:1
20-12-2013	UG Hons.	155	7	22:1
2013-2014	UG Hons.	162	6	27:1
2014-2015	UG Hons.	161	6	26:1

14. Number of academic support staff (technical) and administrative staff; sanctioned and filled:

Post	Sanctioned	Filled
Academic support staff (technical)	0	0
Administrative staff	0	0

15. Qualifications of teaching faculty with D.Sc./D.Litt./Ph.D./M.Phil./PG:

Highest Qualification	No. of Teaching Faculty (Existing)
D.Sc./D.Litt.	0
Ph.D.	0
M. Phil.	1
PG	6

16. Number of faculty with ongoing projects from a) National b) International funding agencies and grants received:

None

17. Departmental projects funded by DST-FIST, UGC, DBT, ICSSR, etc. and total grants received:

None

18. Research Centre / facility recognized by the University:

None

19. Publications:

Total No. of Publications of the Department
(2010-15, during the teachers' tenure at
Barasat Government College) = 23

Publications details of Faculty:

A) CURRENT FULL TIME FACULTY

NAME OF FACULTY	No. of papers in Peer reviewed National /International Journal	No. of publications listed in Int. Data base	Monograph	Chapter in Books	Books Edited	Books With ISSN/ISBN No.	Citation Index	SNIP	SJR	Impact Factor	H- Index
Ranjan Kumar Ray	2 (Nat)			4	3 (All with ISBN No)						
Sreemoyee Ghosh	1 (Int. conference proceeding)			5 (All with ISBN No)							
Kinshuk Nandi	1 (regional)										

B) FULL TIME FACULTY TRANSFERRED/ON-LIEN (Since October 2010)

Dr. Gouri Sankar Nag	3 (1-Nat, 1-Regional 1-national level conference proceeding)			2 (Both with ISBN No)	1 (ISBN NO:978-81-259-5252-7)						
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C) PART-TIME FACULTY/GUEST FACULTY (Day)

Mukut Basu				1 With ISBN No)							
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20. Areas of consultancy and income generated:

Dr. Gouri Sankar Nag was a Jury member in District level Youth Parliament in 24 Parganas (N). He was nominated as Subject Expert by VC, West Bengal State University with respect to Career Advancement Scheme for Dakshineswar (Adyapith) B.Ed College and Jogen Mondal College of 24 Parganas (N) in 2013.

21. Faculty as members in

a) National committees b) International Committees c) Editorial Boards

NAME OF FACULTY	National committees/International Committees /Editorial Boards
Ranjan Kumar Ray	All India Political Science Association
Sreemoyee Ghosh	1. Editorial Board of “Aureole”, the Academic Journal of the College, 2013-2014, 2014-2015 2. Indian Association for Women’s Studies
Kinshuk Nandi	West Bengal Political Science Association

22. Student projects:

None

a) Percentage of students who have done in-house projects including inter-departmental/programme:

On 15th December 2014, five students of the Department presented paper on **Human Rights**.

The seminar method was introduced to enliven the class-room teaching, to inculcate research and analytic method of study, to create scope for exposure to current affairs and to make the students (through presentations) confident in their subject and train them in public speaking.

b) Percentage of students placed for projects in organizations outside the institution i.e. in Research laboratories/Industry/ other agencies:

Students of the Department actively participate in Youth Parliament Competition within the State, and Quiz competition to get accustomed to the culture of parliamentary democracy.

Therefore, participation in these platforms instils among the students, the values of citizenship and democratic culture.

23. Awards/Recognitions received by faculty and students

Faculty-

Nil

Students:

1. Sanchita Das was topper in Political Science Honours in the Final Examination of the West Bengal State University, 2012.
2. Students of the Department became Champion in Youth Parliament Competition in 2011.

24. List of eminent academicians and scientists/visitors to the department:

Justice Chittatosh Mookerjee and Dr. Indrashish Banerjee acted as resource persons in the Awareness Programme on Human Rights on 15th December 2014.

25. Seminars/Conferences/Workshops organized & the source of funding

a) National:

THEME	LEVEL	FUNDING AGENCY	DATE
<i>Awareness Programme on Human Rights</i>	College	College Authority	15 th December 2014
Students' Seminar on Human Rights	College	College Authority	15 th December 2014

b) International:

Nil

26. Student profile programme/ course wise:

Name of the Course/programme Political Science Honours	Applications received	Selected	Enrolled		Total Students appeared In the Univ. Exams	Total Passed	Ist class obtained	Pass percentage
			M	F				
2012-2013	248	58	34	24	39	39	0	100%
2013-2014	204	60	32	28	32	32	01	100%
2014-2015	141	43	22	21	41	41	03	Not yet received
2015-2016	700	79	42	37	--	--	--	--

*M = Male *F = Female

27. Diversity of Students

Name of the Course	% of students from the same state	% of students from other States	% of students from abroad
B.A. Political Science (Honours) as in the last five academic sessions	100 %	N.A	N.A

28. How many students have cleared national and state competitive examinations such as NET, SLET, GATE, Civil services, Defence services, etc.

Name of the Competitive Examination	No. of students passed (in last five years)
State Level Eligibility Test (SET)	02 (2012, 2015)

29. Student progression: (2011-2015)

Student progression	Against % enrolled
UG to PG	On the basis of verbal feedback from the students, it is revealed that nearly 60% students move to study PG
PG to M. Phil.	
PG to Ph. D.	
Ph.D. to Post-Doctoral	
Employed • Campus selection • Other than campus recruitment	Tanmoy Mondal (passed out in 2012) teaches Political Science as a guest teacher at Amdanga High School.
Entrepreneurship/ Self-employment	

30. Details of Infrastructural facilities**a) Library:**

The department has Seminar Library of about 150 books. The students are allowed to borrow books for a week with renewed facility. The library aims to promptly cater to the academic needs of the students by providing them both the basic text and reference books. Simultaneously, it deserves mention that the Central library contains various useful and enriching journals/magazines like Economic and Political Weekly, Frontline, Yojana. The teachers encourage the students to read these resources as these are highly beneficial to the students of Political Science as a gateway to the realistic world and expose them to the wide spectrum of knowledge of the subject.

b) Internet facilities for Staff & Students:

The entire campus is Wi-Fi enabled. The students can have access to e-resources from the library. The teachers suggest the students to read e-books and e-journals to refine and broaden their understanding on varied themes of the subject. The faculty can have access to internet within the campus. The department has a laptop of its own that contributes to have access to internet.

c) Class rooms with ICT facility:

As the department has no classroom with ICT facility of its own, it uses the auditorium of the college that contains all the ICT facilities. Therefore, it is used for screening movies, relevant to the syllabus of Political Science. Also, the departmental laptop is used for PowerPoint presentations to the students.

d) Laboratories: N.A

31. Number of students receiving financial assistance from college, university, government or other agencies:

Name of the Scholarship/ Studentship	Session	No. of Students receiving financial assistance		
		Total	Male	Female
FULL FREE-SHIP	2011-12	19	7	12
	2012-13	06	05	01
	2013-14	08	06	02
	2014-15	11	02	09
HALF FREE-SHIP	2011-12	0	0	0
	2012-13	09	01	08
	2013-14	19	11	08
	2014-15	02	0	02

Besides the above stated scholarship, other government and/or private scholarships are availed by the students. However as these are disbursed centrally and not channelized through the academic departments, the records are not maintained by individual departments.

32. Details on student enrichment programmes (special lectures/ workshops/ seminar) with external experts:

Student Enrichment Programme	Held on	Title	Funding Agency	External Expert/Resource Person/ Speaker
Awareness Programme	15 th December 2014	Human Rights	College Authority	Justice Chittatosh Mookerjee and Dr. Indrashis Banerjee
Students' Seminar	15 th December 2014	Human Rights	College Authority	

33. Teaching methods adopted to improve student learning:

Besides class lectures, tutorials and assignments have been introduced for taking care of the problems and demands of the students. Teachers use tools like Globe and Map to impart lectures on International and comparative politics in an efficient manner. In March 2015, two

movies, namely, “Chittagong” and “Gandhi” were screened as educational and patriotic movies. Both these movies were selected for screening owing to their relevance to the current syllabus of Political Science Honours.

34. Participation in Institutional Social Responsibility (ISR) and Extension activities:

The students participated in different programmes of the College that had been organized by the NSS Unit like the blood donation camp, awareness creation programmes on child rights, environment-related programmes, Yoga programme.

35. SWOC analysis of the department and Future plans:

Strengths	Weaknesses
Many of the students are first generation learners. Yet they perform well. Free studentship, good library books and study materials are supplied to them. Several BPL students pursue studies amidst pecuniary difficulties.	The department does not have dedicated classroom. However, this problem is not exclusive to the department. Construction of new building in the future should settle the issue.
The students are interested to know about current affairs and try to relate the theoretical knowledge of the subject with practice.	A section of students suffer from weakness in English and therefore, it acts as a deterrent to have access to learning resources of the subject that are written in English.
Enrollment of female students shows a healthy ration vis-à-vis male students. Ample number of SC and minority students complete the diversity in student profile.	Often lack of quality reference materials in vernacular medium creates difficulty in study for a section of students who suffer from weakness in English.
The teacher-student ratio is low, resulting in greater attention to individual students.	Due to lack of career opportunity in school teaching, demand for the discipline is waning. As Political Science is not offered till the 10 th standard, career opening s through School Service Commission is low. As a result, fewer numbers of students are opting for the subject.
The pass percentage is appreciable. Discontinuation of studies by students is rare.	Several students stay quite a far away from the college. Consequently, they face transport problems. This infrastructural constraint, sometimes, affect the attendance of the students, particularly the girls.

Parent-teacher meetings offer valuable inputs for both sides.	
Innovative teaching methods such as film shows, debates, students' seminars, power point lectures, Youth Parliament competition etc make the learning process enjoyable.	

Opportunities:

1. An admixture of youth and experience among the faculty members creates a fine balance in teaching-learning-evaluation process.
2. The dynamic nature of the discipline, marked by rapid socio-economic changes and developments in national and international arena, makes it relevant for many enthusiasts.
3. Subject matter of the discipline caters to students opting for competitive examinations.
4. Interactive nature of classroom teaching inculcates critical thinking and keen interest to know beyond textbooks among the students.

Challenges:

1. Suitable career placements for the graduates of the Department are few. It is difficult to motivate them for pursuing higher studies without providing a definite career orientation.
2. Due to certain socio-economic peculiarities, few girls discontinue their studies after getting married. Though the teachers put extra efforts to address the issue, retaining their interest in classroom teaching remains a challenge.
3. Severe financial strain on few students results in their taking certain part-time jobs. While they continue their studies, holding their attention on studies is a challenge.

Future Plans:

- To help the students improve their job prospects, the teachers plan to conduct special career oriented sessions and supply relevant documents and materials.
- Encouraging the students from challenging economic backgrounds in using the digital platform actively forms part of the larger plans of the department.
- The department plans to upgrade the facility of seminar library. Reluctance of students to consult reference books in English has halted the progress of seminar

library to an extent. The teachers plan to translate few important articles for the use of students.

- The department plans student excursions to Legislative Assembly and other relevant sites related to parliamentary democracy.
- To promote the research orientation among students, the Department plans to publish their presentations through students' seminars in monographs and College journal.
- The department also intends to help backward students more actively both inside and outside the classroom.
- The Department plans to organize more special lectures by erudite persons.

11. DEPARTMENT OF PHILOSOPHY

1. Name of the department: PHILOSOPHY

2. Year of Establishment: 1950

3. Names of Programmes / Courses offered (UG, PG, M.Phil., Ph.D., Integrated Masters, Integrated Ph.D., etc.):

UG (B.A. Philosophy Honours and Philosophy General)

4. Names of Interdisciplinary courses and the departments/ units involved:

None

5. Annual/ semester/ choice based credit system (programme wise):

B.A. Philosophy Honours: Annual Examinations (Part I, Part II and Part III)

6. Participation of the department in the courses offered by other departments:

Philosophy is offered as a General Subject for the following Honours subjects:

Bengali, History, Political Science and English.

Philosophy is also offered as a subject in the B.A. General Course, in the Morning Section.

7. Courses in collaboration with other universities, industries, foreign institutions, etc.:

Nil

8. Details of courses/ programmes discontinued (if any) with reasons:

Nil

9. Number of teaching posts:

POSTS	SANCTIONED	FILLED
Professor	0	0
Associate Professor	04	01
Assistant Professor		03

10. Faculty profile with name, qualification, designation, specialization (D.Sc./D.Litt./Ph.D./M.Phil., etc.):

NAME	QUALIFICATION	DESIGNATION	SPECIALISATION	NO. OF YEARS EXPERIENCE	NO. OF PhD STUDENTS
A) CURRENT FULL TIME FACULTY					
Mrs. Arpita Neogi Sengupta	M.A.	Associate Professor	Logic	31yrs	None
Mr. Mrinal Kanti Sarkar	M.A. B.Ed Regd. for Ph.D	Assistant Professor	Logic, Applied Ethics	13 years 5 months	None
Dr. Madhumita Chatterjee	M.A. Ph.D	Assistant Professor	Social and Political Philosophy	9 years 4 months	None
Mrs. Debashree Dutta	M.A. Regd. for Ph.D	Assistant Professor	Logic	8years 8months	None
B) FULL TIME FACULTY TRANSFERRED (Since October 2010)					
Mrs Sewli Das (Karmakar)	M.A. M.Phil	Associate Professor	Logic	17Yrs	None
C) PART-TIME FACULTY/GUEST FACULTY (Day 2010-till date)					
Ms. Soma Sinha	M.A, M.Phil	Part-time Faculty	Logic	5 yrs 9 months	None
D) PART-TIME FACULTY/GUEST FACULTY (Morning 2010 – till date)					
Mrs. Atreyee Mukherjee	M. A.	Part-time Faculty	Logic	30yrs	None

11. List of senior visiting faculty: None

12. Percentage of lectures delivered and practical classes handled (Programme wise) by temporary faculty:

Name of temporary faculty with Qualification	Designation	Programme	Academic Session Taught	Total No. of classes in the Departmental Routine (Per week)		Total No. of classes taught by temporary faculty (Per week)		Percentage of lectures delivered
				Hons.	Gen.	Hons.	Gen.	
Ms. Soma Sinha	Part-time Faculty	B.A. Hons & General	2011-12	73	11	06	02	9.5%
			2012-13	69	08	07	02	11.6%
			2013-14	76	13	09	03	13.5%
			2014-15	79	12	07	04	12%

13. Student-Teacher Ratio (programme wise):

Academic Session	Programme	No. of Students	No. of Teachers (at the beginning of Session)	Student: Teacher Ratio
2010-2011	UG Hons.	96	5	19:1
2011-2012	UG Hons.	115	5	23:1
20-12-2013	UG Hons.	135	6	22:1
2013-2014	UG Hons.	154	6	26:1
2014-2015	UG Hons.	143	6	24:1

14. Number of academic support staff (technical) and administrative staff; sanctioned and filled: N.A.**15. Qualifications of teaching faculty with D.Sc./D.Litt./Ph.D./M.Phil./PG:**

Highest Qualification	No. of Teaching Faculty (Existing)
D.Sc./D.Litt.	0
Ph.D.	1
M. Phil.	1
PG	4

16. Number of faculty with ongoing projects from a) National b) International funding agencies and grants received:

Name of the Teacher	Name of the Project	Duration Year	Name of the funding Agency	Grant Sanctioned (Rs)	Grant Received(Rs)
Mrinal Kanti Sarkar	Minor Research Project	2008-2010	UGC	40000/-	40000/-
Mrinal Kanti Sarkar	Minor Research Project	2014-2016	UGC	250000/-	207000/-

17. Departmental Projects funded by DST-FIST, UGC, DBT, ICSSR, etc.: None**18. Research Centre / facility recognized by the University: None**

19. Publications: Total No. of Publications of the Department (2010-15, during the teachers' tenure at Barasat Government College) = **08**

A) Publications details of CURRENT FULL TIME FACULTY:

NAME OF FACULTY	No. of papers in Peer reviewed National /International Journal	No. of publications listed in Int. Data base	Monograph	Chapter in Books	Books Edited	Books With ISSN/ISBN No.	Citation Index	SNIP	SJR	Impact Factor	H- Index
Mrs. Arpita Neogi Sengupta	-	-	-	01	01	-	-	-	-	-	-
Mr. Mrinal Kanti Sarkar	03	-	-	-	-	02	-	-	-	-	-
Dr. Madhumita Chatterjee	01	-	-	-	-	-	-	-	-	-	-
Mrs. Debashree Dutta	01	-	-	-	-	-	-	-	-	-	-
B) FULL TIME FACULTY TRANSFERRED/ON-LIEN (Since October 2010)											
Mrs Sewli Das (Karmakar)	01	-	-	-	-	-	-	-	-	-	-
C) PART-TIME FACULTY/GUEST FACULTY (Day)											
Ms. Soma Sinha	01	-	-	-	-	-	-	-	-	-	-

N.B. For full list of Publications of the Faculty, see Annexure

20. Areas of consultancy and income generated:

Mr. Mrinal Kanti Sarkar :

- Centre in Charge of Madhyamik Pariksha , Barasat from 2011-13
- External Examiner of *School Service Commission*

21. Faculty as members in**a) National committees b) International Committees c) Editorial Boards****Mrs. Arpita Neogi Sengupta:**

1. Member of the Editorial Board of Philosophy of State Book Board, Govt. of W.B.
2. Member of the editorial board of a volume of *Aureole: An Academic Journal* (ISSN 0976-9625) Vol. 5 no. 2, 2015.

Dr. Madhumita Chatterjee:

Life member of the Indian Philosophical Congress'.

22. Student projects:**a) Percentage of students who have done in-house projects including inter-departmental/programme:**

1st, 2nd and 3rd year students of 2011 to 2014 presented illuminating papers on various aspects of Philosophy, particularly with regard to Practical and Environmental Ethics in Students Seminar organised by the department.

These seminars help increase the academic interest of the students, encourage them to undertake future research and inculcate in them confidence with regard to their subjects and train them in the art of oratory. Apart from this, students also participated in Class Room quizzes on topics related to their curriculum.

b) Percentage of students placed for projects in organizations outside the institution

i.e. in Research laboratories/Industry/ other agencies: Nil

23. Awards/Recognitions received by faculty and students:

- Bandana Ghosh 1st Class 1st in Philosophy under West Bengal State University., 2011
- Palash Barui 1st Class 1st in Philosophy under West Bengal State University., 2012
- Sandipan Adhikary 1st Class 1st in Philosophy under West Bengal State University., 2013
- Haradhan Paul 1st Class 3rd in Philosophy under West Bengal State University., 2013
- Koushik Ghosh 1st Class 4th in Philosophy under West Bengal State University., 2013
- Sathi Dutta 1st Class 3rd in Philosophy under West Bengal State University., 2014
- Pampa Roy - Badminton Doubles Champion -2014, organized by Inter College State Sports & Game Department, West Bengal.
- Anindita Paul & Pampa Roy - Badminton Doubles Champion -2015, organized by Inter College State Sports & Game Department, West Bengal.

24. List of eminent academicians and scientists/visitors to the department:

- Dr. Tapan Kumar Chakraborty, formerly Prof. of Philosophy, Department of Philosophy, Jadavpur University, an erudite scholar delivered a talk on Samkhya Philosophy on 28th February, 2014.
- Dr. Aparna Banerjee, Prof. of Philosophy, Calcutta University presented an enlightened lecture on 'Vivekananda: His Thoughts' on 7th March, 2014.
- Dr. Proyash Sarkar, Associate Professor of Philosophy, Jadavpur University presented Ambedkar Memorial Lecture organized by Department of Information and Culture, North 24 Parganas, Government of West Bengal, in collaboration with Barasat Government College, on 25th July, 2014
- Dr. Tapan Kumar Chakraborty, formerly Prof. of Philosophy, Department of Philosophy, Jadavpur University, an eminent academician gave a talk on Nyaya Philosophy on 1st Dec. 2014.

25. Seminars/Conferences/Workshops organized & the source of funding**a) National:** One (in Collaboration)

THEME	LEVEL	FUNDING AGENCY	DATE	COLLABORATOR
Technologies of Revolution-Society, Economy and Polity,	National	UGC	4 th & 5 th March, 2010	Department of Philosophy, Bengali, History, Sanskrit and English in collaboration with the Paschimbanga Itihas Samsad
Women and Literature: Different Faces, Different Voices		UGC	17-18 January, 2012	Joint seminar by Philosophy, History, Sanskrit and English in collaboration with the School of Women's Studies, Jadavpur University

b) International: Nil

26. Student profile programme/ course wise:

Name of the Course/ programme Philosophy Honours	Applications received	Selected	Enrolled		No. of Students Appeared in the Final Exam in that year.	Total No. of Students passed	No. of First Classes	Pass percentage
			*M	*F				
2011-2012	675	53	13	40	35	34	12	98%
2012-2013	523	66	18	48	40	38	08	95%
2013-2014	287	55	13	42	42	40	04	96%
2014-2015	284	57	13	44	33	31	02	94%
2015-16	865	73	20	53	--	--	--	--

*M = Male *F = Female

27. Diversity of Students

Name of the Course	% of students from the same state	% of students from other States	% of students from abroad
B.A. Philosophy (Honours)	100%	Nil	Nil

28. How many students have cleared national and state competitive examinations such as NET, SLET, GATE, Civil services, Defense services, etc.?

On the basis of verbal feedback, we have come to know that some students have qualified in different competitive Examinations like NET, SET etc. but unfortunately due to lack of proper evidence complete data cannot be given.

29. Student progression: (2011-2015)

Student progression	Against % enrolled
UG to PG	80%
*PG to M. Phil.	#
* PG to Ph. D.	3%
* Ph.D. to Post-Doctoral	Nil
*Employed * Campus selection *Other than campus recruitment	Data not Available
*Entrepreneurship/ Self-employment	Data not Available

*As per verbal feedback

30. Details of Infrastructural facilities**a) Library:**

The department is enriched by having a Seminar Library. At present, there are 508 books on different topics including the recently published ones and is constantly upgraded. The students enjoy the facility of borrowing books regularly.

The central library of the college is also well-stocked and constantly upgraded with the latest publications in the subject on the basis of the recommendations of the department. The library has joined the ENLIST programme (conducted by INFLIBNET) since 2014. Various E-journals and E-books on the subject can be availed by this. The college has institutional membership with British Council Library.

b) Internet facilities for Staff & Students:

The College has Wi-Fi connections available in most sections of the campus. The class rooms and the library have internet connections. Besides, there is one computer with internet connection in the staff room and one in the seminar library.

c) Class rooms with ICT facility: The department has its own laptop which is used by teachers regularly during their teaching sessions. Moreover, the departmental teachers take classes in those rooms where ICT facilities are available whenever necessary.

d) Laboratories: Nil**31. Number of students receiving financial assistance from college, university, government or other agencies:**

Name of the Scholarship/ Studentship	Session	No. of Students receiving financial assistance		
		Total	Male	Female
College (Full Free)	2011-2012	09	01	08
	2012-2013	17	06	11
	2013-2014	0	0	0
	2014-2015	13	02	11
College (Half Free)	2011-2012	18	07	11
	2012-2013	12	02	10
	2013-2014	24	08	16
	2014-2015	25	02	23

Besides the above stated scholarship, other government and/or private scholarships are availed by the students. However as these are disbursed centrally and not channelized through the academic departments, the records are not maintained by individual departments.

32. Details on student enrichment programmes (special lectures/ workshops/ seminar) with external experts:

Student Enrichment Programme	Held on	Title	Funding Agency	External Expert/Resource Person/ Speaker
Special lecture	28.02.014	Samkhya Philosophy	College	Dr. Tapan Kumar Chakraborty
Special lecture	07.03.2014	‘Vivekananda: His Thoughts’	College	Dr.Aparna Banerjee
Special lecture	01.12.2014	Nyaya Philosophy	College	Dr. Tapan Kumar Chakraborty
Special lecture	25.07.2014	Ambedkar Memorial Lecture	Department of Information and Culture	Dr. Proyash Sarkar
Students’ Seminar	21.01.2015	Issues on Practical and Environmental Ethics/Salient Features of Indian Philosophy	College	Arpita Neogi Sengupta Mrinal Kanti Sarkar Debashree Dutta Madhumita Chatterjee

- The Department organises a number of lectures by eminent scholars (guest lecturers) from different relevant fields.
- Remedial Classes are taken by the faculty members. Weak and underprivileged students are being specially cared for.
- Faculty members grade class work and homework of the students. This promotes formative assessment and helps students develop in a constructive way.
- The Department takes an initiative to publish wall magazines so that the students can develop their writing skill. It also helps to enhance understanding and develop responsibilities towards larger social and cultural issues prevalent in the recent time.
- Students’ seminars, debates, group discussions are organised regularly. Students participate in these activities in large number.
- Above all, value orientation and personal care are the measures constantly pursued by the faculty members.
- Departmental Notice Board exhibits the names of the students who attain ranks, qualify for scholarship to motivate other students.

33. Teaching methods adopted to improve student learning:

- ❖ The main teaching method followed is chalk and talk method. Interactive opportunity is always provided.
- ❖ Varied teaching learning methods such as discussion, class tests, special classes, tutorials and questioning techniques are also incorporated.
- ❖ Audio-visual supports are used in teaching whenever necessary. The conventional lecture method of teaching-learning has its limitations. The use of OHP/LCD/DLP projectors in classroom teaching has been appreciated by the students. Student's response towards power point presentations encouraged the teachers to prepare various lectures in that manner. Moreover, the existing internet facility is fully used by all for various study materials.

34. Participation in Institutional Social Responsibility (ISR) and Extension Activities:

1. Mrinal Kanti Sarkar, one of the faculty members is Programme Officer of NSS. He was in charge of the college unit of NSS from 2010 to 2014. Students of our department actively participate in NSS programme in large number

2. Students under the supervision of NSS are made aware of the surroundings of the college. They submit a project report on their findings in respect of various environmental issues, hazards and restoration of ecology.

3. Students join in awareness programmes organised by NSS unit of the college on health hazards such as AIDS and cancer, Thalassemia.

4. They actively participate in the seminars on value education and ideal of life organised by the department in association with external organisations.

5. Some of the faculty members are also involved in various extension activities.

For example, Mrinal Kanti Sarkar is a member of several social organizations, working for the welfare, education and rehabilitation of the Child labour. He has been working for **SUCHETANA** –A welfare Organization.

Arpita Neogi Sengupta accompanied visiting teams for surveying the conditions of children's Home under the guidance of West Bengal Commission for Protection of Child-rights

35. SWOC analysis of the department and Future plan:

Strengths	Weaknesses
<p>1) A group of experienced motivated faculty members. They are competent enough to teach fundamental aspects of the subject which are enhanced by research, practice and analysis of core and distinct areas of specialisation. They demonstrate their expertise and commitment in each and every aspect.</p> <p>2) Students have keen interest in the subject. It is reflected in the University results. The Department has recorded consistently excellent academic results. Many students have topped University merit list.</p> <p>3) The research interests of the Faculty are also greatly supported and they are encouraged to participate in different faculty Development programmes, seminars, workshops and undertake research projects.</p> <p>4) The teachers create an ambience of cordial relationship with the students so that they feel free to approach the teachers with their academic and personal problems. Poorly performing students and the students showing poor attendance are counselled. The teachers also interact with the guardians of the students regularly. Slow and advanced learners are identified and special care is taken to cater to their different needs through special tutorial or remedial classes</p> <p>5) The students are encouraged to participate in extra-curricular activities. They regularly take part in Annual sports and some of them also represent the college in District level and State-level</p> <p>6) Many first generation learners and students from rural areas usually take admission in this Department. As per the trend of liberal arts subjects, the gender ratio of students is tilted in favour of girl students.</p>	<p>1) The students, especially girl students, have to commute from distant areas. Girl students of scheduled caste and scheduled tribe of the College are given seats in Sarama Singh Central Hostel for Girls' at Barasat, run by the Backward Classes Welfare Department, Govt. of West Bengal. But, it is not adequate; some students find it difficult to attend late hour classes.</p> <p>2) As nearly all of the students are with Bengali as their mother tongue, with due diligence they are able to grasp English, though some advanced students are able to pick up the language easily. As a result some of them find it difficult to consult reference books in English.</p>

Opportunities	Challenges
1. Good infrastructural facilities provide opportunities to pursue intellectual activities.	To pursue quality teaching by creating meaning and relevance in teaching learning situation with limited resources.
2. Availability of modern and well equipped e-class facilities foster a congenial atmosphere for academic pursuit of the students.	To maintain an ambience fully comfortable and secured for all the students.
3. A co-operative and interactive relation between teacher and student facilitate the academic interest of the Institution.	To provide more special support to the students of minority and underprivileged group.
	To encourage the students of the financially backward classes to continue their studies under social constraints.

Plan of action of the department.

- 1 The department plans to utilize audio-visual support and hold interactive sessions on a regular basis in the coming sessions.
2. The department intends to extend and upgrade the existing seminar library by including very recently published books on different topics.
3. The department through organizing seminars tries to encourage the students to develop interest for pursuing their research activities in future.
4. The department also intends to help students plying from remote areas actively within and outside the class-room.
5. The department in assistance with the placement cell of the college intends to extend facilities of placement.
6. The department plans to organize more special lectures by erudite scholars and inter-disciplinary seminars.

12. DEPARTMENT OF SANSKRIT

1. Name of the department: SANSKRIT

2. Year of Establishment: 1950

3. Names of Programmes / Courses offered (UG, PG, M.Phil., Ph.D., Integrated Masters, Integrated Ph.D., etc.):

UG (B.A. SANSKRIT Honours and SANSKRIT General)

4. Names of Interdisciplinary courses and the departments/ units involved:

None

5. Annual/ semester/ choice based credit system (programme wise):

B.A. SANSKRIT Honours: Annual Examinations (Part I, Part II and Part III)

6. Participation of the department in the courses offered by other departments:

SANSKRIT is offered as a General Subject for the following Honours

subjects - Bengali, History, Political Science and Philosophy.

It is also offered as a subject in the B.A. General Course, in the Morning Section.

7. Courses in collaboration with other universities, industries, foreign institutions, etc.:

Nil

8. Details of courses/ programmes discontinued (if any) with reasons:

Nil

9. Number of teaching posts:

POSTS	SANCTIONED	FILLED
Professor	0	0
Associate Professor	03	0
Assistant Professor		02

10. Faculty profile with name, qualification, designation, specialization

(D.Sc./D.Litt./Ph.D./M.Phil., etc.):

NAME	QUALIFICATION	DESIGNATION	SPECIALISATION	NO. of YEARS EXPERIENCE	NO. OF PhD STUDENTS
A) CURRENT FULL TIME FACULTY					
Tamonash Chakraborty	M.A Regd.for Ph.D.	Assistant Professor	Nyaya,(Indian Philosophy) vyakaranatirtha.	5years 10 months	None
Poulomi Saha	M.A. Regd. for Ph.D.	Assistant Professor	Kavya (poetics and Literature)	10 months	None
B) FULL TIME FACULTY TRANSFERRED (Since October 2010)					
Dr Antara Banerjee	Ph. D.	Assistant Professor	Nyaya (Indian Philosophy)	5 years	None
C)PART-TIME FACULTY/GUEST FACULTY (Day)					
Dr Bipad Bhanjan Paul	Ph. D	Retd. Associate Professor	Vedanta	Post-Retirement Service in Barasat 7 years	None
Dr. Kalipada Giri	Ph. D	Retd. Associate Professor	Kavya	Post Retirement Service in Barasat 10 Years	None
D) PART-TIME FACULTY/GUEST FACULTY (Morning)					
Gouranga Aich	M.A. Submitted Ph.D	Part-time Faculty	Indian Philosophy	10 year	None
Dr Debashree Sadhu	Ph.D	Part-time Faculty	Indian Philosophy	7years	None

11. List of senior visiting faculty: None

12. Percentage of lectures delivered and practical classes handled (programme wise) by temporary faculty:

Data as per week given below—Day Section

Name	Designation	Programme	Academic Session Taught	Total No. of classes in the Departmental Routine		Total No. of classes taught by temporary faculty		Percentage of lectures delivered	
				Hons.	Gen.	Hons.	Gen.	Hons.	Gen.
Kalipada Giri	Part-time faculty	B.A.	2011-12	75	09	09	-	12%	-
			2012-13	74	04	09	-	12%	-
			2013-14	97	11	09	-	9%	-
			2014-15	85	08	09	-	11%	-
Bipadbhanjan Paul	Part-time Faculty	B.A.	2011-12	75	09	08	-	11%	-
			2012-13	74	04	08	-	11%	-
			2013-14	97	11	08	-	8%	-
			2014-15	85	08	08	-	9%	-

Morning section: This section is particularly for the B.A General course. The classes are taken by the part-time faculty.

13. Student-Teacher Ratio (programme wise):

Academic Session	Programme	No. of Students	No. of Teachers (at the beginning of Session)	Student: Teacher Ratio
2010-2011	UG Hons.	77	4	18 : 1
2011-2012	UG Hons.	89	4	22 : 1
2012-2013	UG Hons.	104	5	21 : 1
2013-2014	UG Hons.	114	5	23 : 1
2014-2015	UG Hons.	119	5	24 : 1

14. Number of academic support staff (technical) and administrative staff; sanctioned and filled:

Post	Sanctioned	Filled
Academic support staff (technical)	0	0
Administrative staff	0	0

15. Qualifications of teaching faculty with D.Sc./D.Litt./Ph.D./M.Phil./PG:

Highest Qualification	No. of Teaching Faculty(Existing)
D.Sc./D.Litt.	0
Ph.D.	0
PG	2

16. Number of faculty with ongoing projects from a) National b) International funding agencies and grants received:

Dr. Antara Banerjee has a Minor Research project named “Sakaler Purana” from 2014 to till date funded by UGC.

17. Departmental projects funded by DST-FIST, UGC, DBT, ICSSR, etc. and total grants received: None**18. Research Centre / facility recognized by the University:** None**19. Publications:**

Total No. of Publications of the Department (2010-15, during the teachers' tenure at Barasat Government College) = 16

Publications details of Faculty:

A) CURRENT FULL TIME FACULTY

NAME OF FACULTY	No. of papers in Peer reviewed National /International Journal	No. of publications listed in Int. Data base	Monograph	Chapter in Books	Books Edited	Books With ISSN/ISBN No.	Citation Index	SNIP	SJR	Impact Factor	H- Index
Tamonash Chakraborty	02	01				81-8282-189-4, 978-81-928589-0-6.					
Poulomi Saha	02	04				2249-2666, 2277-5455					
B) FULL TIME FACULTY TRANSFERRED/ON-LIEN (Since October 2010)											
Dr. Antara Banerjee		07									

20. Areas of consultancy and income generated:

Tamonash Chakraborty gave NET/SET consultancy at Asutosh College Training Centre (ACTC) in the year 2011 – 2013.

21. Faculty as members in**a) National committees b) International Committees c) Editorial Boards:**

Nil

22. Student projects: Nil**b) Percentage of students placed for projects in organizations outside the institution i.e. in Research laboratories/Industry/ other agencies: Nil****23. Awards/Recognitions received by faculty and students:**Faculty:

Debashree Sadhu, part-time faculty of morning section was awarded Ph.D. on March 2015.

Student:

Abhijit Seth: Participated in West Bengal inter Govt. College sports meet and awarded as champion in Badminton Competition (2012-13)

Abhijit Saha stood 4th and Bisakha Das stood 8th in the final exam conducted by WBSU (2014)

Payel Banik stood 1st in the final exam conducted by WBSU (2012)

24. List of eminent academicians and scientists/visitors to the department:

1. Dr. Kakoli Ghosh, Assistant Professor , Department of Sanskrit, Jadavpur University, delivered a lecture on ‘ The Philosophy of Vivekananda.’
2. Dr. Kakoli Ghosh, Assistant Professor , Department of Sanskrit, Jadavpur University, delivered a lecture o ‘KARMAVADA’
3. Dr. Monidipa Das. Assistant Professor of Sanskrit, Department of Sanskrit Rabindra Bharati University delivered a lecture on the ‘Development of The Theories of poetics.’

25. Seminars/Conferences/Workshops organized & the source of funding**a) National:** One (Collaborated)

THEME	LEVEL	FUNDING AGENCY	DATE	COLLABORATOR
<i>Women and Literature: Different Faces, Different Voices</i>	National	UGC	17-18 January 2012	Joint seminar by English, History, Sanskrit and Philosophy in collaboration with the School of Women's Studies, Jadavpur University

b) International: Nil**26. Student profile programme/ course wise:**

Name of the Course/programme Sanskrit Honours	Applications received	Selected	Enrolled		Students Appear	Students Passed Out with Honours	Pass Percentage
			*M	*F			
2012-2013	402	35	09	26	28	27	100%
2013-2014	398	40	09	31	35	31	100%
2014-2015	330	44	13	31	--	--	--
2015-2016	936	47	15	32	--	--	--

*M = Male *F = Female

27. Diversity of Students

Name of the Course	% of students from the same state	% of students from other States	% of students From abroad
B.A. Sanskrit (Honours)	100	--	--

28. How many students have cleared national and state competitive examinations such as NET, SLET, GATE, Civil services, Defence services, etc.

Name of the Competitive Examination	No. of students passed (in last five years)
NET	1

29. Student progression: (2011-2015)

Student progression	Against % enrolled
UG to PG	75% (as per verbal feed- back)
PG to M. Phil.	Data not available
PG to Ph. D.	Data not available
Ph.D. to Post-Doctoral	Data not available
Employed • Campus selection • Other than campus recruitment	Data not available

30. Details of Infrastructural facilities**a) Library:**

The department has a well-stocked Seminar Library. At present, there are more than 100 Books available. The students are allowed to borrow books for a fortnight.

b) Internet facilities for Staff & Students:

The department has own lap-top for providing e- books and journals. The wi-fi facility provided by library, students can stay connected with internet. .

c) Class rooms with ICT facility: sometimes we deliver lectures through power- point- presentation.

d) Laboratories: nil

31. Number of students receiving financial assistance from college, university, government or other agencies:

Name of the Scholarship/ Studentship	Session	No. of Students receiving financial assistance		
		Total	Male	Female
Rastriya Sanskrit Sansthan	2010-2011	2	1	1
Full Free	2011-2012	10	03	07
	2012-2013	06	05	01
	2013-2014	04	01	03
	2014-2015	13	03	10
Half Free	2011-2012	11	08	03
	2012-2013	09	01	08
	2013-2014	09	02	07
	2014-2015	--	--	--

Besides the above stated scholarship, other government and/or private scholarships are availed by the students. However as these are disbursed centrally, the records are not maintained by individual departments.

32. Details of student enrichment programmes (special lectures/ workshops/ seminar) with external experts:

Student Enrichment Programme	Held on	Title	External Expert/ Resource Person/ Speaker
Seminar lecture	07/03/2014	The philosophy of Vivekananda.	Dr. Kakoli Ghosh
Seminar lecture	18/12/2014	Development of theory of Kavya.	Dr. Monidipa Das
Special lecture	August 2014	Karmavada	Dr. Kakoli Ghosh

33. Teaching methods adopted to improve student learning:

We speak Sanskrit instead of mother tongue in the class room and insist the students to speak Sanskrit to enrich their academic acumen in the subject.

Regular class test and special classes also taken for improvement of the skill of the students.

Remedial classes taken for the slow learners.

34. Participation in Institutional Social Responsibility (ISR) and Extension activities:

Students take part in NSS programme organized by the college unit. We also give privilege to the minority and female students by providing books and special classes.

35. SWOC analysis of the department and Future plans:

Strengths	Weaknesses
Meritorious students come to learn here from the interior part of this district.	The department does not have any dedicated class room as yet
We have a rich library with collection of rare and valuable books. We have made a book bank by specimen copies to help to economically backward students.	Transfer of teachers sometimes hampers the teaching learning process.
Many of our students got job in schools and colleges as a part- time or full- time teachers.	Due to absence of hostel facility the students who come from the remote area of the district, face difficulty.
Opportunity	Challenges
Our students can take part in museology, manuscriptology, archaeology and also in comparative literature in future.	Our challenges to motivate our student in to the subject and want to give a holistic idea about the vastness of the subject apart from prescribe syllabus.

Future plan---

1. We want to collect the manuscripts form the different part of this district and build up a manuscript library with collaboration of National Mission For Manuscript.(N.M.M.)
2. It is our aim to organize a seminar on modern Sanskrit literature along with performance of a drama.
3. We want to arrange some inter- disciplinary classes with the collaboration of department of philosophy, Bengali, history to enrich our student's skill.

13. DEPARTMENT OF ZOOLOGY

1. Name of the department: Zoology

2. Year of Establishment: 1996

3. Names of Programmes / Courses offered (UG, PG, M.Phil., Ph.D., Integrated Masters, Integrated Ph.D., etc.):

UG [Hons since 1996]

PG [since 2009]

4. Names of Interdisciplinary courses and the departments/ units involved:
NA

5. Annual/ semester/ choice based credit system (programme wise):

B.Sc [Honours]: Annual Examinations [Part I, Part II and Part III]

M.Sc : Semester system [SemI, SemII, SemIII & Sem IV]

6. Participation of the department in the courses offered by other departments:
NA.

7. Courses in collaboration with other universities, industries, foreign institutions, etc.:
NA

8. Details of courses/ programmes discontinued (if any) with reasons:
NA

9. Number of teaching posts:

POSTS	SANCTIONED	FILLED
Professor ¹	1	0
Associate Professor	8	3
Assistant Professor		5

¹ The Post has been temporarily shifted to the Department of Bengali.

10. Faculty profile with name, qualification, designation, specialization (D.Sc/ D.Litt./ Ph.D./ M.Phil. etc.):

NAME	QUALIFICATION	DESIGNATION	SPECIALISATION	NO. of YEARS EXPERIENCE	NO. OF PhD STUDENTS
A) CURRENT FULL TIME FACULTY					
Dr. Madhumita Manna	M.Phil, Ph.D	Associate Prof.	Molecular Biology, Parasitology, Immunology, Env Science	16 yrs	1[awarded] + 1[thesis submitted] + 2 [registered] 3 M.Phil awarded
Dr. Debajyoti Chakraborty	Ph.D	Associate Prof.	Fisheries	25 yrs	2 Ph.D [awarded] 1M.Phil awarded
Dr. Tuhin Kumar Saha	Ph.D	Associate Prof.	Animal Physiology, Biochemistry	14 yrs	Nil
Dr. Tanaya De	Ph.D	Assistant Prof	Endocrinology and Reproductive Biology, Cell Biology	9 years	Nil
Dr. Sanjay Poddar	Ph.D	Assistant Prof	Hematology, Immunology	9 years	1 registered
Dr. Debjani Sarkar	Ph.D	Assistant Prof	Hematology	6 years	Nil
Dr. Srikanta Guria	Ph.D	Assistant Prof	Parasitology, Immunobiology, Molecular Endocrinology	6 years	Nil
Mr. Somaditya Dey	M.Sc	Assistant Prof	Parasitology, Immunology	½ yr	NA
B) FULL TIME FACULTY TRANSFERRED (Since October 2010)					
Prof. Nimai Chandra Saha	Ph.D	Professor	Fisheries & Ecology	30 yrs	3
Dr. Santanu Chakraborty	Ph.D	Associate Prof.	Ecology, Immunology	16 yrs	Nil
Dr. Sourav Chakraborty	Ph.D	Assistant Prof.	Cytogenetics	14 yrs	Nil
Dr. Amlan Ghosh	Ph.D	Assistant Prof.	Cancer Biology & Molecular Biology	6 yrs (On lien)	1 registered

C) PART-TIME FACULTY/GUEST FACULTY (Day 2010-2014)					
1.Dr. Piyush K Saha	Ph.D	Retired, Part Time Faculty	Endocrinology & Entomology	38 years	Nil
2.Ms. Indrani Banerjee (Part Time faculty)	M.Sc	Part Time Faculty	Endocrinology	5 yrs	NA
3.Dr. Rupendu Roy	Ph.D	Guest Teacher Faculty [Retired, Ex HOD, Dept. of Zoology, Barasat Govt. College]	Parasitology	34	2
4. Dr. Debaprasad Chakraborty	Ph.D	Guest Teacher Faculty [Retired, Ex HOD, Dept. of Zoology, erstwhile Presidency College]	Developmental Biology	46 yrs	Nil
5. Dr. Madhusudhan Ghosal	Ph.D	Guest Teacher Faculty [Retired Ex Vice Principal, Surendra Nath College, Kolkata]	Biochemistry, Animal Physiology	57 yrs	Nil
6.Dr. S.K.Gupta (Guest faculty)	D.Sc	Guest Teacher [Retired Scientist and Ex Jt. Director, Zoological Survey of India]	Acarology	30 yrs	10 Ph.D. 1 M.Phil.
7. Dr. S Dattagupta (Guest faculty)	Ph.D	Guest Teacher [Retired Scientist, Indian Institute of Chemical Biology, Kolkata]	Biochemistry, Molecular Biology, Immunology	20 yrs	7

11. List of senior visiting faculty:

- Prof. S.K.Mukherjee, Ex Principal, Hooghly Mohasin College, Hooghly
- Dr.N.K. Jana, Associate Prof. & Head, Dept. of Zoology, Charuchandra College, Kolkata

12. Percentage of lectures delivered and practical classes handled (programme wise) by temporary faculty:

Name of temporary faculty with Qualification	Designation	Programme	Academic Session Taught	Total No. of classes in the Departmental Routine		Total No. of classes taught by temporary faculty		Percentage of Lectures delivered
				Hons.	Gen.	Hons.	Gen.	
Dr. P. K.Saha	Part-time Faculty	B.Sc. Hons & General	2011-12	69	17	8	5	15.1%
			2012-13	69	17	8	5	15.1%
			2013-14	69	17	11	5	18.6%
			2014-15	69	17	6	0	6.9%
Ms. I. Banerjee	Part-time Faculty	B.Sc. Hons & General	2011-12	69	17	10	9	22%
			2012-13	69	17	10	9	22%
			2013-14	69	17	10	6	18.6%
			2014-15	69	17	11	5	18.6%

13. Student-Teacher Ratio (programme wise):

Academic Session	Programme	No. of Students	No. of Teachers (at the beginning of Session)	Student: Teacher Ratio
2010-2011	UG Hons.	81	11	7:1
2011-2012	UG Hons.	91	10	9:1
2012-2013	UG Hons.	101	10	10:1
2013-2014	UG Hons.	114	11	10:1
2014-2015	UG Hons.	122	12	10:1

Academic Session	Programme	No. of Students	No. of Teachers (at the beginning of Session)	Student: Teacher Ratio
2010-2011	M.Sc	43	13	3:1
2011-2012	M.Sc	43	12	4:1
2012-2013	M.Sc	45	12	4:1
2013-2014	M.Sc	46	13	4:1
2014-2015	M.Sc	49	17	3:1

14. Number of academic support staff (technical) and administrative staff; sanctioned and filled:

Post	Sanctioned	Filled
Group C staff	1	1
Group D staff	2	2
Casual		1

15. Qualifications of teaching faculty with D.Sc./D.Litt./Ph.D./M.Phil./PG:

Highest Qualification	No. of Teaching Faculty(Existing)
D.Sc./D.Litt.	1 [Guest teacher]
Ph.D.	14 [7, Full time + 1, Part Time + 4, Guest Teachers, 2 visiting teachers]
M. Phil.	0
PG	2 [1 full time + 1 Part Time]

16. Number of faculty with ongoing projects from a) National b) International funding agencies and grants received: One –a) National funding agencies-DBT, UGC-DAE, CSIR, Grant received Rs. 63.689 L

Name of the faculty	Title of the Project	Funding Agency	Duration of the Project	Grant Sanctioned
Dr. Madhumita Manna	Direct diagnosis and characterization of the causal agents of Kala-azar from North East and Eastern region of India by molecular methods. In Collaboration with 1. Gauhati Medical College, Assam 2. National Medical College, Kolkata	Department of Biotechnology (DBT), Govt. of India [DBT TWINNING PROGRAMME FOR NE]	January 16, 2013 - 2016	Rs. 99.98 Lakhs (L)
	An Approach to develop an immunotherapeutic and prophylactic agent by attenuated leishmania parasite'	CSIR	2011 - till date	Rs. 9.02 L
	Application of modern taxonomical methods for characterization of drug sensitive and drug unresponsive isolates of Kala-azar in India	CSIR	2013 - till date	Rs. 6.01 L
	Influences of trace elements in the immune functions in visceral leishmaniasis and post kala-azar dermal leishmaniasis of India (Recently Completed)	UGC-DAE Consortium for Scientific Research, Kolkata Centre	2009-2014	8.5 L [approx]

17. Departmental projects funded by DST-FIST, UGC, DBT, ICSSR, , DAE, State DST etc. and total grants received:

DST-FIST: Rs. 11.81,856 L [Dept.]
 DBT: Rs. 28.28 L [Dr. M. Manna]
 UGC DAE Rs. 8.500 L (approx) [Dr. M. Manna]
 State DST Rs. 6.328 L [Dr. Poddar]
 CSIR SRF (Two): Rs. 18.051 L [under guidance of Dr. M. Manna]

Total Grants received: Rs. 63.689 L + Rs. 11.81,856 L = Rs. 75.50,756/

18. Research Centre / facility recognized by the University: NA

19. Publications:

Total No. of Publications of the Department (2010-15, during the teachers' tenure at Barasat Government College) = **89**

Publications details of Faculty:

A) CURRENT FULL TIME FACULTY

NAME OF FACULTY	No. of papers in Peer reviewed National /International Journal	No. of publications listed in Int. Data base	Monograph	Chapter in Books	Books Edited	Books With ISSN/ISBN No.	Citation Index	SNIP	SJR	Impact Factor	H- Index
Dr. Madhumita Manna	Nat:8 Int:10	Google Scholar 8 PubMed (NCBI) 6 PubFact 6 Thompson Reuters 6 Research Gate 6 Scopus 2	NA	4	NA	1	48	0.681	7	13.653	5
Dr. Debajyoti Chakraborty	Nat 02 Int 08	Google Scholar 1 Thompson Scientific 1 Original Research database 1 Scopus 1		3	Nil	3	10	nil	1	2.742	Nil
Dr. Sanjoy Podder	Nat: 01 Int: 03	Scopus 4 Pubmed 1 Thompson Reuters 1 Web of Science 1	NA	NA	NA	NA	17	2.319	0.809	0.614	
Dr. Tanaya De	Nat :01 Int :01	Google Scholar 1 Index Copernicus 8.25	NA	NA	NA	NA					
Dr. Debjani Sarkar	Nat :01 Int :03	Scopus 2 Medline 2 Thompson Reuters 2 CAB Abstracts 2 Index Copernicus 13.18					20	3.646	2.217	6.672	3

Dr. Srikanta Guria	Nat:8 Int:17	Pubmed (NCBI) 2 Google scholar 9 Pubfact 2 Research Gate 6 Scopus 1 Thomson Reuters 2	nil	Chapter 3 Article 9	nil	2 (ISBN-10: 161761 8705 and ISBN: 978-1- 63117- 103-1)	1	0.9 + 0.80 =1.7	0.76 + 0.66 = 1.42	Range=0.33-2.02 Average =0.9 Total – 5.6	1
Somaditya Dey	Nat:01 Int:05	Google Scholar 6 Elsevier biobase 3 Thompson Reuters 6 ResearchGate 6 Scopus (SNIP/SCImago) 6 Wiley Online Library 1	NA	NA	NA	NA	18	5.04	4.90	Range-0.48-4.28 Average-2.32 Total-13.91	2
B) FULL TIME FACULTY TRANSFERRED/ON-LIEN (Since October 2010)											
Dr. Amlan Ghosh	Int: 06			1		1 (ISSN No. - 1768-3262-posted by INIST)	44			18.4	3
Dr. Santanu Chakrabarti	Nat: 01										
Dr. Saurabh Chakraborti	Nat: 01										
Prof. Nimai Chandra Saha	Nat:01 Int: 07	DOAJ 1, CAB 3, CAS 2, Google Scholar 3, PubMed 1 Scopus 1, Biosis 1, OCLC 1, Elsevier Biobase 1, Index Copernicus 1	NA	NA	NA						
C) PART-TIME FACULTY/GUEST FACULTY											
Dr. Debaprasad Chakraborti	Nil										
Dr. Pijush Kanti Saha											
Dr. Rupendu Roy	Nat: 01 Int: 01										
Dr. Salil Kumar Gupta	Nat: 02										

20. Areas of consultancy and income generated: NA

21. Faculty as members in**a) National committees b) International Committees c) Editorial Boards....**

NAME OF FACULTY	National committees/International Committees /Editorial Boards....
Dr. Madhumita Manna	Member, International Society for Vaccines, USA, leishmania Research Society, India, Life member, The Zoological Society of India, Life member, Indian Science News Association, Associate Editor, Aureole, an academic Journal, Barasat Govt. College, 2013-2015, Chairperson, PGBOS, Dept. of Zoology
Dr. D. Chakraborty	Associate Editor (sc), Conscientia, Krishnagar Govt. College Executive Editor, Aureole, an academic Journal, Barasat Govt. College, 2013-2015 Member, PGBOS, Dept. of Zoology, IQAC
Dr. T.K.Saha	Convener, PGBOS, Dept. of Zoology, Barasat Govt. College
Dr. Sanjay Poddar	Associate Editor, Aureole, academic Journal, Barasat Govt. College, 2011-2014, Member, PGBOS, Dept. of Zoology, Barasat Govt. College
Dr. Debjani Sarkar	Life member, Indian Pharmacological Society, Life member, The Zoological Society of India, Kolkata Member, PGBOS, Dept. of Zoology, Barasat Govt. College
Dr. Tanaya De	Life member, Society of Reproductive Biology and Comparative Endocrinology, Member, PGBOS, Dept. of Zoology, Barasat Govt. College
Dr. Srikanta Guria	Life member, The Zoological Society of India, Kolkata Member, Calcutta Consortia of Human Genetics, Member, PGBOS, Dept. of Zoology, Barasat Govt. College
Mr. Somaditya Dey	Member, PGBOS, Dept. of Zoology, Barasat Govt. College

22. Student projects: See Annexure I.**b) Percentage of students placed for projects in organizations outside the institution i.e. in Research laboratories/Industry/ other agencies:**

Name	Level	Research laboratories/Industry/ other agencies:	Amt of Fellowship / Salary
Juin Mondal	M.Sc (2012-2014)	Research Associate (Part time) in a 3 year project, funded by NMPB, Govt. of India at RKMA, Narendrapur	4000 /- per month
Keya Halder	M.Sc (2011-2013)	Research Associate (Full time) in a 3 year project, funded by NMPB, Govt. of India at RKMA, Narendrapur	8000/- per month
Sushanta Das	M.Sc (2012-2014)	Recently passed North 24 pgs Judgeship Examination and recruited in Barasat High Court	Recent Salary= 15000/- per month
Subhankar Dutta	B.Sc (2009-2012)	Research Associate In Bioinformatics, Mumbai	
Subhadip Mukherjee	B.Sc (2009-2012)	Working as Ornithologist, Wild Life Photography of NGO	7000/- per month

Arpita Das	B.Sc (2009-2012)	Bank of Baroda	15000/- per month
Ivy Nandi	B.Sc (2009-2012)	Bank of Baroda	15000/- per month
Suparna Mallik	B.Sc (2009-2012)	Kanara Bank	15000/- per month
Arka Bakshi	M.Sc (2009-2011)	IISC , Bangalore	CSIR fellowship

23. Awards/Recognitions received by faculty and students:

Teachers' awards:

1. Dr. Madhumita Manna is the recipient of Post Graduate Jubilee Merit Prize from University of Calcutta for securing first class first position in B.Sc Hons Exam., 1985. Dr. Manna also received National Scholarship from Govt. of India for academic excellence starting from class VIII.
2. Dr. Debajyoti Chakraborty, received National Scholarship from Govt. of India for academic excellence and he was CSIR JRF
3. Dr. Tuhin K. Saha received UGC JRF and completed his Ph.D. from Visva Bharati University.
4. Dr. Tanaya De is CSIR NET qualified and did her Ph.D. from Central Drug Research Institute, Lucknow, India. She is also GATE and SLET qualified.
5. Dr. Sanjay Poddar is SET qualified and recipient of State DST project.
6. Dr. Debjani Sarkar is recipient of Gufic prize for presenting paper in Annual Conference Indian Pharmacological Society, 2005 and NET and SLET qualified. She did her Ph.D.in 2011 from University of Calcutta.
7. Dr. Srikanta Guria, UGC-CSIR NET (LS) and SLET qualified and was awarded his Ph.D. in 2014 from Calcutta University. He obtained UGC SAP RFSMS fellowship from Calcutta University. He is awarded for outstanding paper presentation at National Symposium on Man, Animal and Environment Interaction in The Perspective of Modern Research on organized by Department of Zoology, University of North Bengal. He got young scientist award for his paper presentation on national seminar at University of Kalyani.
8. Mr. Somaditya Dey is NET qualified and pursuing Ph.D. under Dept. of Zoology, WBSU. He is awarded for oral and poster presentation at International Conference on "Molecular Biology and its Applications", organized by Department of Life Science and Biotechnology, Jadavpur University, Kolkata.

Students' awards/ recognitions:

Name	Level	Scholarship/award/Recognition	Funded by	Amount
Suchitra Guha Thakurata	PG SEM IV	Swami Vivekananda Merit Cum Means Scholarship	Govt. of West Bengal	Rs. 16800/- Per Year (12months Basis) for 2 yrs
Brintasree Chakraborty	PG SEM IV	Indira Gandhi Post Graduate Single Girl Child Scholarship	UGC	Rs. 2,000/- Per Month (10 month basis) for 2yrs
Ratna Sarkar	PG SEM IV	Indira Gandhi Post Graduate Single Girl Child Scholarship	UGC	Rs. 2,000/- Per Month (10 month basis) for 2yrs
Sangita Das	PG SEM IV	Swami Vivekananda Merit Cum Means Scholarship	Govt. of West Bengal	Rs. 16800/- Per Year (12months Basis) for 2 yrs
Soumita Biswas	PG SEM IV	Swami Vivekananda Merit Cum Means Scholarship	Govt. of West Bengal	Rs. 16800/- Per Year (12months Basis) for 2 yrs
Paramita Banerjee	PG SEM IV	Indira Gandhi Post Graduate Single Girl Child Scholarship	UGC	Rs. 2,000/- Per Month (10 month basis) for 2yrs
Sinjini Mukherjee	PG SEM IV	Indira Gandhi Post Graduate Single Girl Child Scholarship	UGC	Rs. 2,000/- Per Month (10 month basis) for 2yrs
Anwesha Banerjee	PG SEM IV	Indira Gandhi Post Graduate Single Girl Child Scholarship	UGC	Rs. 2,000/- Per Month (10 month basis) for 2yrs
Moumita Banerjee	PG SEM IV	Indira Gandhi Post Graduate Single Girl Child Scholarship	UGC	Rs. 2,000/- Per Month (10 month basis) for 2yrs
Himadri Nath	PG SEM IV	Swami Vivekananda Merit Cum Means Scholarship	Govt. of West Bengal	Rs. 16800/- Per Year (12months Basis) for 2 yrs
Kantu Mondal	PG SEM IV	Swami Vivekananda Merit Cum Means Scholarship	Govt. of West Bengal	Rs. 16800/- Per Year (12months Basis) for 2 yrs
Subhankar Bhowmick	PG SEM IV	Swami Vivekananda Merit Cum Means Scholarship	Govt. of West Bengal	Rs. 16800/- Per Year (12 months Basis) for 2 yrs
Md. Sahariar Sardar	PG SEM IV	Swami Vivekananda Merit Cum Means Scholarship	Govt. of West Bengal	Rs. 16800/- Per Year (12months Basis) for 2 yrs
Lok Nath Biswas	PG SEM IV, 2015	SC Scholarship	W.B .Minority Fund	Rs. 9,000/- Per Year (12 Months Basis)
Gunjan Roy Choudhury	PG SEM II, 2014	Post graduate Indira Gandhi scholarship for single girl child	UGC	2000 per month
Arpita Hazra	PG SEM II, 2014	Post graduate Indira Gandhi scholarship for single girl child	UGC	2000 per month

Shilpa Saha	PG SEM II, 2014	Post graduate Indira Gandhi scholarship for single girl child	UGC	2000 per month
Moumita Rakshit	PG SEM II, 2014	Post graduate Indira Gandhi scholarship for single girl child	UGC	2000 per month
Sudipta Kanrar	M.Sc (2012-2014)	SC scholarship	Govt. of West Bengal	7600/- per annum
Pinky Ghosh	M.Sc (2012-2014)	SC scholarship	Govt. of West Bengal	7600/- per annum
Subrata Mondal	M.Sc (2012-2014)	SC scholarship	Govt. of West Bengal	7600/- per annum
Prodipta Roy	M.Sc (2012-2014)	SC scholarship	Govt. of West Bengal	7600/- per annum
Sujit Sarkar	M.Sc (2012-2014)	SC scholarship	Govt. of West Bengal	7600/- per annum
Prianjana Dey	BSc 2 nd (Hons), 2014	Kanyashree Prakalpa	Govt. of West Bengal	25,000/- per annum
Nandita Mondal	BSc 2 nd (Hons), 2014	Kanyashree Prakalpa	Govt. of West Bengal	25,000/- per annum
Tasnin Sultana	BSc2 nd (Hons), 2014	Kanyashree Prakalpa	Govt. of West Bengal	25,000/- per annum

24. List of eminent academicians and scientists/visitors to the department:

- Dr. Swadesh Dattagupta, Retired Scientist, Indian Institute of Chemical Biology, Kolkata
- Prof. S. K. Mukherjee, Ex Principal, Hooghly Mohasin College, Hooghly
- Dr. N. K. Jana, Associate Prof. & Head, Dept. of Zoology, Charuchandra College, Kolkata
- Dr. S. C. Gupta, Retired Scientist and Ex Jt. Director, Zoological Survey of India
- Dr. Madhusudhan Ghosal, Retired Vice Principal, Surendra Nath College, Kolkata
- Dr. Rupendu Roy, Retired, Ex HOD, Dept. of Zoology, Barasat Govt. College
- Dr. Debaprasad Chakraborty, Retired, Ex HOD, Dept. of Zoology, erstwhile Presidency College, Kolkata
- Dr. Amlan Ghosh, Faculty, Dept. of Biological Sciences, Presidency University, Kolkata

- i) Prof. Nimai Chandra Saha, Director of Public Instructions, Higher Education Dept, Govt. of West Bengal
- j) Prof. Subir C. Dasgupta, Prof. and Head, Dept. of Zoology, Maulana Azad College, Kolkata
- k) Dr. Anjan Kumar Das, Dept. of Pathology, Calcutta National Medical College, Kolkata
- l) Dr. Chiranjib Pal, Dept. of Zoology, West Bengal State University, Barasat
- m) Dr. Narain Garai, Head, Dept. of Zoology, West Bengal State University, Barasat
- n) Prof. Anilava Kabiraj, Dept. of Zoology, Kalyani University, Kalyani
- o) Dr. Samir B. Banerjee, Retired Prof. and Head, Dept. of Zoology, Calcutta University
- p) Prof. Goutam Saha, Prof., Dept. of Zoology, Calcutta University of Calcutta
- q) Prof. Madhusudan Das, Prof. and Head, Dept. of Zoology, University of Calcutta
- r) Prof. Sumit Homechaudhury, Prof., Dept. of Zoology, University of Calcutta
- s) Dr. Shilanjana Bhattacharya, Dept. of Zoology, West Bengal State University, Barasat

25. Seminars/Conferences/Workshops organized & the source of funding

a) **National:** One (in Collaboration with West Bengal State University)

THEME	LEVEL	FUNDING AGENCY	DATE	COLLABORATOR
Rediscovering 100 years of journey on the field of Immunology; PRESENT STATUS OF Immunological research in India	National	University Grants Commission	19 th & 20 th September, 2011	West Bengal State University

b) **International:** None

26. Student profile programme/ course wise:

Name of the Course/programme UG B.SC. Zoology	Applications received	Selected	Enrolled		Pass percentage
			*M	*F	
2010-2011	615	27	14	13	82%
2011-2012	640	35	25	10	85%
2012-2013	717	39	21	18	N.A. (Degree not awarded)
2013-2014	746	40	15	25	N.A. (Degree not awarded)
2014-2015	728	43	13	30	N.A. (Degree not awarded)

*M = Male *F = Female

Name of the Course/programme PG M.SC. Zoology	Applications received	Selected	Enrolled		Pass percentage
			*M	*F	
2010-2011	162	24	8	16	100%
2011-2012	156	23	3	20	100%
2012-2013	167	25	11	14	100%
2013-2014	154	24	10	14	N.A. (Degree not awarded)
2014-2015	152	26	5	21	N.A. (Degree not awarded)

*M = Male *F = Female

27. Diversity of Students

Name of the Course	% of students from the same state	% of students from other States	% of students From abroad
UG COURSE- B.SC. ZOOLOGY (A) (2010-15)	98.9%	1.1%	NIL
PG COURSE M.SC. ZOOLOGY(2010-15)	99.18%	0.82%	NIL

28. How many students have cleared national and state competitive examinations such as NET, SLET, GATE, Civil services, Defence services, etc?

NET: 4; WBPSA Selection Test: 1; SSC: 1; Judgeship Examination: 1

Name of the Competitive Examination	No. of students passed (in last five years)
NET 2014, WBPSA Selection Test,2015	1 (Sujit Sarkar)
NET 2013	1 (Dipankar Chakraborty)
NET 2013	1(Subhankar Mukherjee)
NET 2012	1(Arka Bakshi)
SSC (School Service Commission) 2013	1 (Debadrita Paul)
North 24 pgs Judgeship Examination clerical post (2015)	1 (Susanta Das)

29. Student progression: (2011-2015)

Student progression	Against % enrolled	
UG to PG	2010-11	12.5%
	2011-12	27%
	2012-13	25%
	2013-14	22.5%
	2014-15	27.5%
PG to M. Phil.	NIL	
PG to Ph. D.	2010-11	N.A.
	2011-12	12.5%
	2012-13	8%
	2013-14	N.A. (Degree not awarded)
	2014-15	N.A. (Degree not awarded)
Ph.D. to Post-Doctoral	Data Insufficient	
Employed • Campus selection • Other than campus recruitment	Other than campus recruitment: 30 (Mainly in Banking sector, Staff selection, Primary And secondary Schools, Colleges, JRFs, LDC and private organizations etc.)	
Entrepreneurship/ Self-employment	Data Insufficient	

30. Details of Infrastructural facilities

a) **Library:**

Besides Central library with 319 books on the subject, Dept. has one seminar library with 133 books to meet the demand of both UG and PG students.

b) **Internet facilities for Staff & Students:**

Wi-Fi connections in 10 computers to serve both students and teachers

c) **Class rooms with ICT facility:**

Two PG classrooms with fixed LED projectors and one LED projector for taking class both for UG and PG.

d) **Laboratories:**

The Dept. has three General practical laboratories to hold the practical classes of both UG and PG students, two well equipped special paper AC laboratories for special paper students and four sophisticated research laboratories for research scholars of the Dept. Besides these, Dept. also has one central equipment facility laboratory for students, research scholars as well as teachers to conduct regular classes and project works of the students and scholars.

31. Number of students receiving financial assistance from college, university, government or other agencies: 26 + 35 = 61

Name	Level	Scholarship/award/Recognition	Funded by	Amount
Suchitra Guha Thakurata	PG SEM IV	Swami Vivekananda Merit Cum Means Scholarship	Govt. of West Bengal	Rs. 16800/- Per Year (12months Basis) for 2 yrs
Brintasree Chakraborty	PG SEM IV	Indira Gandhi Post Graduate Single Girl Child Scholarship	UGC	Rs. 2,000/- Per Month (10 month basis) for 2yrs
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Shilpa Saha	PG SEM II, 2014	Indira Gandhi Post graduate scholarship for single girl child	UGC	2000 per month
Moumita Rakshit	PG SEM II, 2014	Indira Gandhi Post graduate scholarship for single girl child	UGC	2000 per month
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Nandita Mondal	BSc 2 nd (Hons), 2014	Kanyashree Prakalpa	Govt. of West Bengal	25,000/- per annum
Tasnin Sultana	BSc 2 nd (Hons), 2014	Kanyashree Prakalpa	Govt. of West Bengal	25,000/- per annum

Academic session	Half free (no. of students)	Full free (no. of students)
2011-12	2	2
2012-13	5	2
2013-14	6	0
2014-15	8	10

32. Details on student enrichment programmes (special lectures/workshops/ seminar) with external experts:

Student Enrichment Programme	Held on	Title	Funding Agency	External Expert/Resource Person/ Speaker
Awareness on Job opportunity	May, 2015	Awareness on Job opportunity	College authority	Dr. Amlan Ghosh, Dept. of Biological Sciences, Presidency University

33. Teaching methods adopted to improve student learning:

- The usual talk and chalk method is used by the faculties which still remains a very good and effective way to inculcate knowledge and interest to the students.
- Along with this usual method, the teachers also employ some other effective methods while teaching, for example, Overhead Projector is used that helps to project the transparent sheets prepared by the teachers enabling to teach in more detail and at the same time saves time. The diagrams used while teaching can be much better comprehended by the pupil in this method
- LCD Projector is also used by the teachers, which, of course, helps in better gripping of the topics. The diagrams, animations and videos that can be used in this method definitely creates an interest and inquisitiveness among the students as well as helps to grab their whole-hearted attention while delivering the topic, keeping them keen and interested
- Charts are used while conducting the practical classes. In case of dissection, it helps the students to better understand the anatomy. In other practical topics, they get a better understanding of the specimens that they would observe
- Models are there to demonstrate some topics of practical classes
- Museum specimens displayed in the department introduces the students to an array of animals, thus instilling their interest into the world of Zoology. Identification of these specimens with their characteristic features further helps the students to become more familiar with the animals that encompasses the scope of Zoology

34. Participation in Institutional Social Responsibility (ISR) and Extension activities:

Students and teachers from Department of Zoology have participated in different programmes organized by NSS unit of the College

35. SWOC analysis of the department and Future plans:

Strength	Weakness	Opportunity	Constraint
1. Faculties are highly motivated and integrated.	1. Due to the transfer policy that exists in service, teachers get relocated in the middle of the session and often the total number of posts allotted, remains unoccupied. This hampers teachers' students' coordination that has developed meanwhile.	1. DST FIST fund for dept.	1. Space

2. The meritorious candidates of the area select this Dept. as first reference to study		2. UGC XI plan PG development grant	2. Adequate funds
3. Department has been upgraded to teach Post-Graduate curriculum from 2009	2. More class rooms dedicated for each year	3. Special grant from Govt. of West Bengal	3. Many of the students are first generation learners.
4. Various teaching aids like Overhead projector, LCD projector	3. Requirement of more computers for the faculties and the students	4. DBT Twinning programme running in the Dept. in collaboration with CNMC and Gauhati Medical College, Assam	
5. Faculties are running projects funded by different research organisations		5. Collaboration with National Institutes like IICB, SINP, UGCDAE, Guahati Medical College, Univ. of Calcutta, WBSU, Allergy and Asthma Research Centre, Kolkata, IPGMER, Presidency University etc.	
6. Sophisticated instruments to cater the PG students and research scholars		6. Wi-Fi Internet connections for Dept.	
7. Students' Seminar is a part of PG curriculum. Regular seminars and national level conference has also been held		7. Computer laboratory in the Dept.	
8. Teacher-student co-ordination is commendable		8. Exposure of the PG students to various 'State of Art' research laboratories (IICB, IPGMER, WBSU etc)	
9. Most Post-graduate students qualify in First Class; Some UG students come out as rank-holders in University Examinations			
10. Eminent guest faculties and teachers scholars come regularly to interact with the students and teachers			
11. Students take part in NSS programme, they also occasionally arrange cultural programme among themselves as well as			

Future Plans:

1. Improvement of Infrastructure of the Dept. by procuring funds from Govt., BOOST, DBT STAR programme etc [for example, Animal house with ethical committee, human ethical committee, Aquarium etc]
2. Putting thrust on students' projects in different research organizations/ Universities
3. Improvising Teaching learning methods [e-class room, interactive board, digital classrooms, Digital library etc]
4. Participation of young faculties in Faculty Improvement Programme
5. Arrangement of hands on training programme for both UG and PG students
6. To set up Centre for excellence to cater students of nearby colleges of the University in the form of workshop, hands on training etc.
7. Up gradation of museum as it is integral part of Zoology teaching.

PART-F

POST-ACCREDITATION INITIATIVES

Report on Actions Taken as per the Recommendations by the NAAC Peer Team during Accreditation of Cycle-1

1. Recommendation: The vacant post of the faculty should be filled

Actions taken:

- Presently the Departments such as Geography, Mathematics, Physics, Chemistry, Economics and Philosophy have full strength of full-time faculties, in addition to part-time, guest and visiting faculties. Out of 86 sanctioned posts, very few teaching posts are vacant, as of now, which are also expected to be filled up soon.
- All the posts of Professors in different departments are filled up.
- Recently an additional new teaching post has been created and filled up in the Department of Geography.
- To maintain the student teacher ratio properly, creation and filling up of more of teaching posts in different departments have been proposed and is under consideration of Government.
- With the introduction of PG course in Chemistry, more teaching and non-teaching posts will be created and new teachers will be posted shortly.
- The College is committed to fill up all vacant posts at the earliest.

2. Recommendation: Furtherance of Computer Literacy

Actions taken/Status:

- The College has established computer rooms for each department and in the library dedicating them to the cause of spreading computer literacy.
- Computer literacy programme for girl students in a dedicated computer room in the main building has become operative as well.
- With the goal of achieving full computer literacy among the students, a dedicated computer center in the Annex Building for the purpose of imparting compulsory computer course to the under-graduate students of this College has been set up, in collaboration with the National Institute of Electronics & Information Technology (NIELIT), an affiliate of Department of Information Technology, Government of India. Provision for such classes were incorporated within the class-routine of the under-graduate students, thus ensuring that the digital divide is gradually eliminated.

- The number of desktop and laptop computers available in the College now stands at a figure of 130, with the College having plans to add to this number. Of these, more than 40 machines cater to the laboratory related needs of the students, while a few are earmarked for free internet access and other such needs of students.
- The College has a dedicated pool of tech-savvy teachers who encourage the students for adoption of computer-enabled solutions in their regular academic matters.
- In keeping with the e-governance initiatives of the Government, the College also has taken initiative for the training of non-teaching staff in handling of different high-end software meant for accounting and library matters. The integration of the non-teaching staff with such software has improved our institutional functionality.
- Efforts are on for a 'Go Green and Paperless Campus', by keeping the students abreast with the latest technological knowhow so that everything can be done online.
- In a related development, the College is also considering to tap the huge potential of the mobile computing platform. The development of a free android app in the name of the College is in the pipeline. The College wants to be a pioneer in this regard.

3. Recommendation: Stakeholders' participation in academic and developmental activities may be encouraged further

Actions taken/Status:

- The college has a potent IQAC, comprising the members of teaching faculties as well as different sections of the society, actively and constructively participating in college activities.
- The College has a fully functional Governing Body, with representatives from all walks of life. The Hon'ble District Magistrate of North 24 Parganas is the President of our Governing Body. The rest of the posts are adorned by renowned academicians, representatives from the administration, teaching faculty, non-teaching staff, local society members and students. Meetings are regularly convened and important administrative and strategic decisions are arrived at through consensus.
- Individual departments also conduct parent-teacher meetings and the feedback arising out of such meetings are incorporated in the management process of the College. Their grievances are also addressed. The Departments take serious efforts in getting feedback of students regarding course curriculum, facilities offered by the College, accessibility of faculty etc., while keeping the anonymity of the students intact.

- There is a vibrant Students' Union whereby the opinion of the student community are voiced through a democratic forum. Such union is provided a yearly budget to carry out co-curricular activities of the students. They organize cultural functions and sports meets and are also active in maintaining the overall discipline and cleanliness of the College.
- College has a development committee comprising teaching and non-teaching staff and students to discuss about different developmental measures to be undertaken.
- The alumni members have also at times very actively placed their suggestions.

4. Recommendation: Budgetary provision for promoting research activities (seed money for the beginners)

Actions taken/Status:

- Funds sanctioned from the Government or bodies like UGC and DST, are allocated evenly to cater to all the stakeholders associated with the College.
- The College promotes research orientation by providing administrative, infrastructural and logistical support to all the teachers. Whenever the teachers apply for project grants from UGC, DST or similar bodies, the College authority processes the applications on a priority basis. As compared to the accreditation of last cycle, number of ongoing projects undertaken by the teachers has significantly increased.
- A portion of the book grants is kept for research oriented volumes and the Departments can use it as per their discretion. Space and other infrastructural support for setting up laboratories and work-stations are provided by the College as well. All these factors somewhat substitute the lack of any direct research grants.

5. Recommendation: The College may consider reducing some of the work-load of the faculty doing research

Actions taken/Status:

- While the College authority appreciates this recommendation of the NAAC Peer Team, there are certain operational difficulties in implementing the same. However, the teachers are encouraged by the authority to undertake research projects by reducing their duties like invigilation, admission work etc. Administrative, infrastructural and logistical support are provided to them. With increasing number of students getting admitted to all the Departments, the present distribution of load factor among teachers has already

evened out. Moreover, it is the young teachers who are driving the necessary technological changes in the overall system.

- The College authority is also alert in increasing the research opportunities for the researchers. In the past five years, there have been fifty one (51) instances where the teachers have been able to complete Refresher Course, Orientation Programme, PhD Coursework etc. and the College authority has always been supportive of such needs.

6. Recommendation: Active Placement Cell required

Actions taken/Status:

- The College has established under UGC scheme, a vibrant Career Counselling Cell as per the recommendation of the NAAC Peer Team. A Career Fair was organized in February 2011, whereby many companies and institutes had set up connectivity centers within the campus to create an awareness for job-oriented courses among the students from the catchment area of this College. Between 2013 and 2015 as well, many career oriented programmes have been organized, where numerous eager participants benefitted. Through the months of November and December 2014, Counselling sessions were organized for outgoing undergraduate third year students of this College and they were imparted specific technical inputs on CV writing, GD skills, Interview skills etc. Around 300 students of this College had been counselled through such sessions.
- Entry-in-Services programme under UGC scheme is running successfully in this College. Many teachers have been imparting professional and life-skills to many aspirants from disadvantaged sections of the society. Till date, nearly 350 career aspirants have enrolled in this programme. Some of them have been successful in securing jobs in both Government and private sector. So the College is active in catering to the placement related needs of the wider populace.
- About direct placement of students through campus interview, it is indeed uncommon to see instances where companies have recruited fresh graduates-to-be from general degree colleges on the basis of their qualification only. As the market determined model of economy reserves mainly the non-technical jobs and back-office jobs for students from non-science disciplines of general degree colleges, the placement related functions are getting more and more specialized in nature. The Career Counselling Cell of the College proposes to partner with the HR wings of major industry heavyweights and rope in their technical expertise to increase the employability of our students.

7. Recommendation: UGC may be approached for maintenance of equipment grants

Actions taken/Status:

- The UGC has decided to accord a total corpus fund of Rs. 27,95,580/- as Grant-in-aid under the head PBG-35 and Rs.6,98,895/- under the head PBG-31 to the College during the XIIth Plan period. Among these, an amount of Rs.5,98,895/- in total is sanctioned as Instrument maintenance facility under the head PBG-35 and PBG-31, including repairing and maintenance of equipment. The college hopes to receive more of such grants in future.

8. Recommendation: P.G programmes in Physics and Chemistry may be introduced.

Actions taken/Status:

- In the second half of 2009, PG course was introduced in the Department of Physics, along with Departments of Zoology and Bengali as well. Since then, four batches of students have passed out with distinction from these PG programmes.
- University has already granted the affiliation for introduction of Post-graduate course in Chemistry from 2015-16 academic session. The college is now waiting for final approval from the Higher Education Department, Government of West Bengal.

For this purpose, with the grant under UGC Golden Jubilee scheme and matching grant of the Govt. of West Bengal, an Annex building of Chemistry Department is being constructed and will be completed shortly. The College as well as the Department of Chemistry is looking forward to the commencement of its upcoming PG course.

9. Recommendation: Internet facilities should be strengthened further.

Actions taken/Status:

- All the departments, library and office have already been made Wi-Fi enabled through optical-fiber, whereby internet access is available to all the smart devices and gadgets located within a broad perimeter through a secured channel.
- Under the National Mission on Education through ICT (NMEICT), funded by the Ministry of Human Resources Development, Government of India, provision for high speed broadband internet by BSNL has been created in all the Departments, Teachers' Room, Library and College Office as well.

- The access for high-speed internet through NIELIT has been thrown open to the students in the Central Library of the College.
- Apart from this, internet facility is available in the Cheap Store as well.
- The College has already taken initiative to enable the entire campus with Wi-Fi network by a private service provider for a Campus-Wi-Fi Solution Network. Therefore, the College has a mission of enabling the faculty and the students whereby they can connect themselves with the broader world.

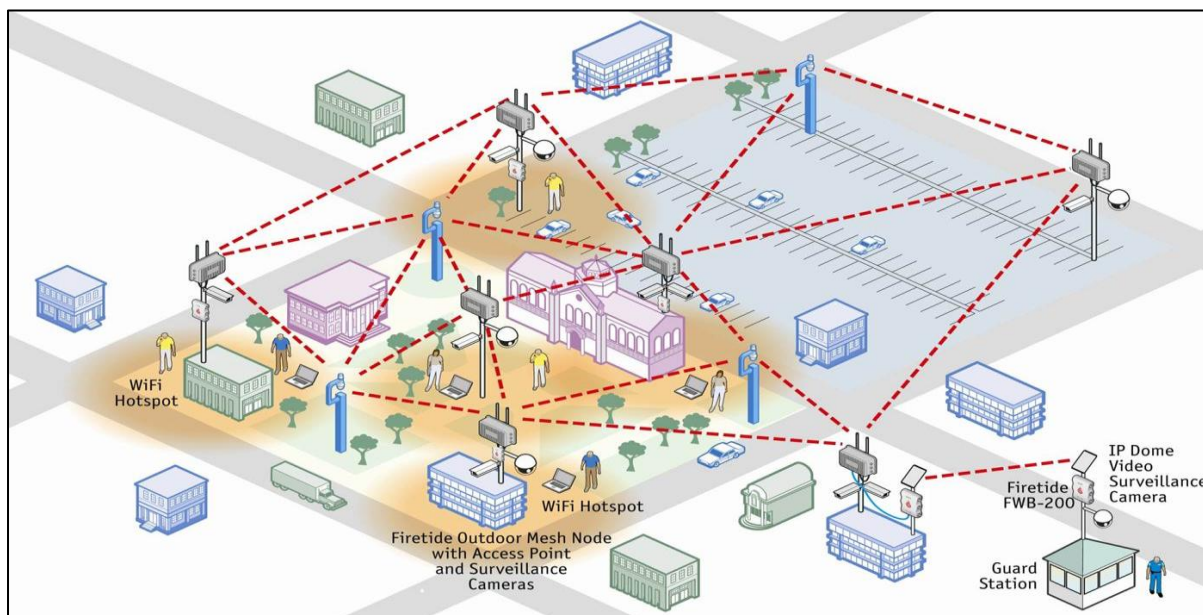


Illustration of how the College envisages a Campus-Wi-Fi Solution Network

10. Recommendation: A good auditorium is required.

Actions taken/Status:

- The College has built a state-of-the-art air-conditioned, sound proof auditorium-cum-Seminar Hall on the second floor of the Annex Building, where all modern facilities are available to conduct seminars, lectures, presentations, film shows and other functions. It can accommodate an audience strength of nearly 150.
- Apart from this, there is another auditorium on the ground floor of Main Building with provision for 150 seats. Having a proper audio system and a stage, this facility is frequently used on different occasions.
- Additionally, air-conditioned e-classrooms have also been established in the PG Departments. These are alternatively utilized to conduct Departmental seminars and other such notable academic activities.
- Proposal for construction of a full scale Auditorium has already been sent for government approval.

11. Recommendation: Back-up facility for electricity.**Actions taken/Status:**

- The College has installed in a proper platform and shade, a silent auto- start pollution free DG Set of 50kVA capacity made by Cummins, Jackson.
- Additionally a Generator Set of 5kVA capacity is also functional from a separate generator room. In this way, adequate power back-up shall eventually increase the academic productivity of the college.

PART-G

ANNEXURE-1: DETAILED ACADEMIC ACTIVITIES OF THE DEPARTMENTS

1. DEPARTMENT OF BENGALI

Name of the faculty: Dr. Dilip Kumar Naha

List of Publications:

Some Selected Articles published during last five years:

1. Shistachar O Shishtacharer Bhasha”, “Barnaparichoy, 2010, 4th Issue, Edt. by Samar nag, Page : 139-150
2. “Muktadharar Muktnane Kaji Najrul Islam”, a chapter in the Book “ Muktheadhara”, Edt. By Dr. Moloy Rakshit, Kalyani Publication, 2011, Page : 242-250
3. “Bhumika : Banaphuler Sahitya Samagra” Edt. by Abanindranath Dhar, BaniShilpa, 2012, Page : 1-22
4. “Swami Vivekananda Ganer Bhuban”, Swami Vivekananda sardha Shtabarsha Smarak grantha, Govt. of Tripura, 2012, Page : 119-129
5. “Rabindranatther drishtite adhunik Bangla Sahitya”, a chapter in the Book “Rabiprekshana”, Tripura University, 2012, Page : 248-275
6. “Swami Sadananda” , “Swami Swarupananda” , two chapters in the Book “ Swamijir Aloke udbhashita anuragibrinda, Baranagar Ramkrishna Math, 2013
7. “Swamijir Shikshabhabana O Janashiksha prasanga”, a chapter of the book ‘Swami Vivekananda JanmaShatabarsha smarak grantha’, Edt. RajatShubhra Majumdar, Dey’s Publishers, 2013, Page: 105-125
8. “ Saraladebir Vivekananda anwesh”, ‘Udbodhan’, Puja Sankhya, 2014, Page : 792-794

Name of the faculty: Sandip Kumar Patra

List of Publications:

1. Tobu ekalabya, 6th year, first issue, 1417 B, Rabindra galpe nayika: chena mukh Achena prodibad
2. Ebong Musayera, Gunamoy Manna Sankha, Saradiya 1417 B, Samayer Avigyane Bohuswarik Jini...

Name of the faculty: Dr. Sudakshina Ghosh**Seminar attended/paper presented:**

1. UGC sponsored National Seminar 23rd January 2010 Presidency College.
2. UGC Sponsored State level Seminar Attended & Participated 4th and 5th March 2010 Barasat Govt. College.
3. UGC Sponsored Seminar Attended & Participated 7th and 8th April, 2010 at Presidency College.
4. UGC sponsored State Level Seminar Organized by Acharya Prafulla Chandra College on 22/12/2011.
5. Centre for Studies & Research on Tagore Rabindra Bharati University, UGC sponsored National Seminar [Paper presented on 26.03.2015]

List of Publications:**Books:**

1. Bankim- Prabandha-Sahityer Nirman Silpa Jan 2015, ISBN No-978-81-8438-073-9
2. Essay :- Collected In Books
 - A) Book- Sonar Tari Vabnar Dik-Diganta Edited By Tarun Mukhopadhyay (Baisnab Kabita) ISBN No.-978-93-81329-15-3 Feb 2012
 - B) Rabindranather Ghare Baire; Binirman –Nirman Edited By Dr. Chitrita Bandhopadhyay (Amulya: Balak Kishore)

Articles published in journals:

1. Dui Prabandhik: ak naricharitra - Samalochana , Tobu ekalabya Edited by Dipankar Mallick, ISSN 09769463, 6TH YEAR 1ST EDITION 1417
2. Prabandho – Rabindranath ebong bartaman July 2010, KRANDASI Edited by Sanat Basu, Rabindranath o Satyer Ahaban Reg.No- 8565/61
3. Rabindranather Nari vabna : Bikash o Bibartan, CHATUSKONE July 2014 Reg. No. 8565/61
4. Bichhinata : Rabindranather tinti choto galpo, CHATUSKONE Jan 2015 Reg. No- 8565/61

Name of the faculty: Md Abdur Rafik Sardar**Seminar attended/ paper presented**

1. Rabindra Bharati University, UGC sponsored National Seminar Paper presented on 17.03.2015 & 18.03.15
2. Centre for Studies & Research on Tagore Rabindra Bharati University, UGC sponsored National Seminar on 26.03.2015

3. Rabindra Bharati University, International Seminar [Paper presented on 27.03.2015]
4. Prasanta Chandra Mahalanobis Mahavidyalaya, UGC sponsored National Seminar Paper presented on 10.04.2015 & 11.04.2015.
5. Asannagar Madamohon Tarkalankar Mahabidyalay UGC sponsored National Seminar Paper presented Dt. 24.06.2015 and 25.06.2015.

Name of the faculty: Ms. Piali Khan

Seminar attended/ paper presented

1. Sree Chaitanya Mahabidyalaya (participation) on 13/11/2014 and 14/11/2014.
2. Raja Peary Mohon College (Paper presented) on 04.12.2014 and 05.12.2014.
3. Kalinagar Mahavidyalaya (Paper presented) on 19.12.2014 and 20.12.2014.
4. Udaynarayanpur Madhabilata Mahavidyalaya (Paper presented) on 20.02.2015.
5. Centre for Studies & Research on Tagore Rabindra Bharati University, UGC sponsored National seminar on 26.03.2015
6. Rabindra Bharati University, International Seminar on 27.03.2015
7. Prasanta Chandra Mahalanobis Mahavidyalaya, UGC sponsored National Seminar on 10.04.2015 & 11.04.2015
8. Ramkrishna Mission Vidyamandir, National Seminar [Paper presented] on 24.04. 15
9. Asannagar Madamohon Tarkalankar Mahabidyalay UGC sponsored National Seminar Paper presented on 24.06.2015 and 25.06.2015

List of Publications:

1. Rabindranath O Jorasanko Thakurbari Kichu Bhabna (essay- Rabindranather Gotitattobhabna) edited by Pratyush Kumar Rit ISBN: 81-89322-12-5 26 January 2013
2. Bangla Uponasye Nari: Boichitrer Aloke (essay – Bibhutibhusaner Uponasye Prokiti O Nari---Amogh Soundarjer Dik) edited by Malay Das ISBN: 978-81-925093-7-2 January 2014
3. Bolmik Magazine (essay- Bangla Chotogalper Anginai Madhyabitta: ak Bishes Uposthiti) edited by Subrata Chakrabarty 1420.

4. Samakaler Jionkathi Magazine ,Sundarban Kathasahityo Bishes Sankha, 2nd Vol. (essay- Kathasahitye Sundarban Anweshai Ashapurna o Mahasweta) edited by Nazibul Islam Mondal ISSN: 2249 4782 Jan-June 2014
5. Samakaler Jionkathi Magazine, Mahasweta Devi Bishes Sankha (essay- Kathasahitye Sundarban Anweshai Ashapurna O Mahasweta Devir “Bene Bou”: Sekal O Ekaler Ak Apurba Samapatan) edited by Nazibul Islam Mondal ISSN: 2249 4782 Jan-June 2015.
6. Sahitya o samaj chetonay Bangla natok edited by Rina Majumder, Essay name: - Samaj chetanar aloke Utpal Duttaer duti natak. ISBN: 978-93-84383-20-6, 25 Dec, 2014

Name of the faculty: Dr. Tarun Kanti Roy (Transferred)

List of publications:

1. Jyotirindra Nandir Galpa: Natun Chokke – and Essay on the short story of Jyotirindra Nandi, Published in Sristir ekush shatak, edited by Arun Kundu I July 2012.
2. Samir Rakhit : Samayer nibisto Pathak – Published in the Mahajan, Edited by Indranil Mukhopadhyay. May 2013

Name of the faculty: Ms. Debjani Sengupta (transferred)

She had completed a UGC minor research project between 2009 and 2011, during her period of service at Barasat Government College.

Name of the faculty: Smt. Paramita Chaudhuri (Part-Time teacher)

Seminar paper presented:

1. Raja Peary Mohon College (Paper presented) on 04.12.2014 and 05.12.2014.
2. Kalinagar Mahavidyalaya (Paper presented) on 19.12.2014 and 20.12.2014.
3. Udaynarayanpur Madhabilata Mahavidyalaya (Paper presented) on 20.02.2015.
4. Centre for Studies & Research on Tagore Rabindra Bharati University,
5. UGC sponsored National Seminar [Paper presented] on 26.03.2015
6. Prasanta Chandra Mahalanobis Mahavidyalaya, UGC sponsored National Seminar [Paper presented] on 10.04.2015 & 11.04.2015
7. Ramkrishna Mission Vidyamandir, National Seminar Paper presented on 24.04.2015
8. Asannagar Madamohon Tarkalankar Mahabidyalay UGC sponsored National Seminar Paper presented on 24.06.2015 and 25.06.2015

List of Publications:

1. 'Gram theke Bhuban gram', hati hati pa pa, Bangla Sishu O Kishore Sahitya, Edt. Dr. P. Pramanik, 2010
2. Rabindranather 'Manusher Dharma' prabandha: ` Manabataya Jatra, Rabindranath O Bharatiyatwa, Edt. Amal Modak, 2012
3. Rabindra nath o gamin unnayan chinta, Rethinking of Tagore's views on Society, Development & Environment, Etd. Sanghamitra Dasgupta, Sukla chatterjee, Anjana chatterjee. 2012
4. Lolosankritir Sangraha rupe Rabindra bhumika, Rabir Kirane, Lokayata Bhuban, Edt. Gautam Dandapat ,2013
5. Anil Ghoroi: Bastaber Biparite ek Anany Rupakar, Bangla chhotogalpo ekaler Sanlap, Edt. Goutam Dandapat, 2013

❖ **Projects done by the PG students under supervision of the following teachers****Dr. Manju Mandal, Associate Professor**

1. Dissertations submitted by PG Students:

Department	Year	Name of Student	Title of project	Supervising Faculty
BENGALI	2014-15	Esadul Islam	Parasuramer – short story	Dr. Manju Mandal
		Moumita Das	Fiction	
		Ria Ghosh	Parasuramer – Religion	
		Apurba Kumar Pal	Fiction	
		Rojina Khatun	Drama 19 th Century & Bengali Drama	

Rita Ghosh, Associate Professor

1. Dissertations submitted by PG Students:

Department	Year	Name of Student	Title of project	Supervising Faculty
BENGALI	2014-15	Swapna Dutta	Novel	Rita Ghosh
		Soma Dey	Modern Poetry	
		Susmita Das	Tagore literature	
		Bakul Mazumder	Novel	

Sandip Kumar Patra, Associate Professor

1. Dissertations submitted by PG Students:

Department	Year	Name of Student	Title of project	Supervising Faculty
BENGALI	2014-15	Ramen Das	Short stories	Sandip Kumar Patra
		Tanmoy Mondal	Drama	
		Sujata Sarkar	Lyric Poetry 19 th century	
		Subhadra Nath	Novel	
		Suman Dey	Novel	

Md. Abdur Rafik Sardar, Assistant Professor

1. Dissertations submitted by PG Students:

Department	Year	Name of Student	Title of project	Supervising Faculty
BENGALI	2014-15	Payel Mondal	Allegor in poetry of Jibanananda Das	Md. Abdur Rafik Sardar
		Soma Basu	Female Revolution in Bengal in 19 th century	
		Snigdha Biswas	The period of Bijan Bhattacharyay and his Selected Drama	
		Dipankar Dikder	The source of Tagore's short story by The CHHINAPATRA	
		Moumita Das	The Bengal Society and 'Charyyapada'	

Manas Kundu, Assistant Professor

1. Dissertations submitted by PG Students:

Department	Year	Name of Student	Title of project	Supervising Faculty
BENGALI	2014-15	Debanjana Banerjee	Rabindranath: shory story as narrative	Manas Kundu
		Mitali Bhattacharyay	Rabindranath: Novel as narrative	
		Nabanita Saha	Rabindranath : On music	
		Rakhi Biswas	Mahasweta Debi: "Subaltern" World	
		Arpita Roy	Rabindranath : Dramatic World	

Piali Khan, Assistant Professor

1. Dissertations submitted by PG Students:

Department	Year	Name of Student	Title of project	Supervising Faculty
BENGALI	2014-15	Avik Dutta	Katha Sahitya	Piali Khan
		Barnali Talukder	short stories	
		Madhumita Roy	Novel	
		Sangita Tarafder	short stories	
		Lakshmi Mondal	short stories	

2. DEPARTMENT OF BOTANY

Publications of Department of Botany

In Journals: 53

Sl. No.	Name of paper	Journal Name, Volume, Page no., Impact Factor	Year	Author(s)
1	Karyotype Analysis of Indian Lentils Through EMA Based Giemsa Staining	Caryologia (In press), IF-0.85	2015	Jha T.B. , Mahanti A and Ghorai A
2	Cytogenetic and DNA analyses in three species of Swertia from Eastern Himalaya	Caryologia (In press), IF-0.85	2015	Samaddar T, Myo Ma Ma Than, Jha T B and Jha S
3	Chromosomes of Aegle marmelos & Azadirachata indica through EMA method.	Nucleus 57(3):185–188	2014	Jha T.B.
4	Direct organogenesis, phytochemical screening and assessment of genetic stability in clonally raised Chlorophytum borivillianum Sant et Fern.	Environmental and Experimental Biology (Accepted)	2014	Basu S and Jha T B ,
5	Karyological relationships in Indian species of Drimia based on fluorescent chromosome banding and nuclear DNA amount	Protoplasma DOI 10.1007/s00709-014-0679-z, IF- 2.651	2014	Nath S & Jha T B , Mallick S K & Jha S.

6	Direct organogenesis, and genetic characterization of <i>Solanum pseudocapsicum</i> L in vitro regenerated plants	PTC & B , 24(1):67-72	2014	Jha T B , Samaddar T, Nath S., and Das A.
7	Characterization of RAM to SAM transitions by differential screening of randomly amplified cDNAs from in vitro cultures of <i>Selaginella microphylla</i> .	Biologia Plantarum, DOI 10.1007/s10535-013-0325-1, IF- 1.74	2013	S. Bandophyadhy, K. Nandagopal and T.B. Jha
8	Chromosome analysis in the dioecious cucurbit <i>Coccinia grandis</i> (L.)Voigt.	Chromosome Science, 15, 9-15,	2012	B. K. Bhowmick, T.B. Jha , and S. Jha
9	<i>In vitro</i> propagation and molecular evaluation of a <i>Capsicum annuum</i> L. cultivar with high chromosome number (2n= 48)	Scientia Horticulturae, 140, 119–124, IF- 1.504	2012	A. Dafadar, A. Das, B. Bandyopadhyay and T.B. Jha
10	Application of EMA, fluorescent staining and FISH of rDNA in analysis of <i>Aloe vera</i> (L.) Burm. f.	Chromosomes Bull. Fac. Agr. Kagoshima Univ. , 62, 83-89	2012	T.B. Jha , and M. Yamamoto
11	Biosynthesis of <i>myo</i> -Inositol in Lycopods: Characteristics of the pteridophytic L- <i>myo</i> -inositol-1-phosphate synthase and <i>myo</i> -inositol-1 phosphate phosphatase from the strobili of <i>Lycopodium clavatum</i> and <i>Selaginella monospora</i>	Acta Physiologiae Plantarum, 34 (4), 1579- 1582, IF- 1.524	2012	A. Basak, T.B. Jha and J. Adhikari

12	New genetic resource in <i>Capsicum</i>	Plant Genetic Resources 10 (2); 141–144; IF- 1.06	2012	T.B. Jha , A. Dafadar, and A. Ghoroi.
13	<i>In vitro</i> Morphogenesis in <i>Selaginella microphylla</i> (Kunth.)	Plant Biotechnology Reports , DOI 10.1007/s11816-012-0255-y. , IF- 1.59	2012	T.B. Jha , S. Mukherjee, A. Basak and J. Adhikari
14	Identification and quality screening of different East Himalayan species and populations of Swertia L. using C-glucoxanthone mangiferin as a biomarker	Asian Pacific Journal of Tropical Biomedicine, S1450 – S1456, IF- 1.062	2012	D.K. Pandey, S. Basu, and T.B. Jha
15	<i>Jatropha curcas</i> : A Review on Biotechnological Status and Challenges (Invited review)	Plant Biotechnology Reports (Springer) 5:197–215, IF- 1.59	2011	P. Mukherjee, A. Varshney, T.S. Johnson, and T.B. Jha
16	In-Vitro propagation of <i>Chlorophytum nepalense</i>	J. Trop. Med. Plants., vol. 12(1), p33-39	2011	S. Basu and T.B. Jha
17	Comparative karyomorphological analyses of in vivo and in vitro grown plants of Aloe vera l. Burm. F.	Nucleus (Springer), vol. 53(3), 89-94	2011	A. Das, P. Mukherjee, A. Ghoroi and T.B. Jha
18	Cytogenetic studies in four species of <i>Chlorophytum</i> ker-Gawl (Liliaceae)	Nucleus (Springer), 54(3), 123-132	2011	S. Basu and T.B. Jha
19	Quantitative HPTLC analysis of Stigmasterol in different populations of <i>Chlorophytum borivilianum</i> Sant et. Fern;	J. Trop. Med. Plants	2011	S. Basu, D.K. Pandey & T.B. Jha

20	Meiotic studies in <i>Musa</i> L. cultivars.	Journal of Chromosome Science, 14: 33-38	2011	S. Ghosh, A. Das, T.B. Jha and A. Ghorai
21	High frequency micropropagation of <i>Aloe vera</i> L. Burm.f as a low cost option towards commercialization.	Plant Tissue Culture and Biotechnology, 20(1): 29-35	2010	A. Das, P. Mukherjee, and T. B. Jha
22	Somatic embryogenesis in <i>Swertia chirata</i> Buch.ham ex wall, a multipotent medicinal herb.	Asian journal of Biotechnology 3(2): 186-193	2010	T.B. Jha , A. Das and R.K. Chaudhuri
23	L-myo-Inositol-1-Phosphate Synthase Expressed in Developing Organ: Isolation and Characterisation of the Enzyme from Human Fetal Liver.	Appl . Biochem. ,Biotechnol., 167:2269–2282. (USA) (Springer), IF- 1.687	2012	Chhetri, D.R., Gupta, S., Mukherjee, A.K. and Adhikari, J.
24	Characterization of gluconeogenic fructose-1,6-bisphosphatase in the senescent thalli of an alga <i>Cladophora bengalensis</i> Martens	Ind. J. Plant Physiol. 19(1):8–13 (2014). DOI 10.1007/s40502-013-0052-9 (Springer)	2014	Dey, A., Lahiri, A., Basak, A. and Adhikari, J.
25	Development of an efficient and simple method for conjugation of laccase to immunoglobulin and its characterization by enzyme-immunoassay. 217-231	Journal Of Immunoassay & Immunochemistry, Vol. 31, ISSN: 1532-1819, IF- 0.727	2010	Ray, S., Chowdhury, P., Das, N. , Bishayi, B.d
26	Fungal Karyomorphology: a deep insight through high throughput devices. . 46-53.	B. N. Seal J. Sc. Vol. III, ISSN: 0975-5624	2010	Adhikari, D., Das, N.

27	Effect of 2,4- diichloro phenol on mycelial growth and extracellular enzyme production by <i>Pleurotus spp.</i> 80-84.	B. N. Seal J. Sc. Vol. III, ISSN: 0975-5624	2010	Das, N., Adhikari, D., Naskar, S.
28	Cultivation practice of <i>Pleurotus fossulatus</i> on rice straw. 20-24.	Journal of Life Sciences.. Vol. 4, ISSN: 1934-7391	2010	Das, N., Chowdhury, P, Pasman, B.
29	Experimental evidence for Presence of a Growth Regulating Extracellular Laccase in Some <i>Pleurotus</i> Species. 496-502	Research J. Microbiology. Vol. 6, ISSN: 1816-4935	2011	Das, N., Naskar, S., Chowdhury, P., Pasman, B., Adhikari, D.
30	Concomitant production of sporeless fruiting bodies and laccase release during submerged fermentation practice of <i>Pleurotus fossulatus</i> . 27-32	New York Science J. Vol. 4., ISSN: 1554-0200	2011	Das, N., Chowdhury, P., Adhikari, D., Naskar, S.
31	Development of a simple method for a new immuno-conjugate utilizing laccase. 1-16	Research J. Immunology. 2012. Vol. 5, ISSN: 1994-7909.		Ray, S., Das, N., Bishayi, B
32	Comparative studies of antibacterial properties of three <i>Pleurotus</i> species (Oyster mushroom)	Nature and Science., ISSN: 1545-0740	2012	Das, N., Pasman, B., Mishra, S., Bhattacharyay, B., Sengupta, C
33	Isolation and characterization of two multidrug resistant bacteria from drinking water samples at Barasat Govt.College. 70-76	Acad. J. Aureole., ISSN: 0976-9625	2013	Pramanick, S., Das, N.

34	Isolation, culture optimization and physico-chemical characterization of laccase enzyme from <i>Pleurotus fossulatus</i> .	Pakistan J Biol. Sci., Vol. 17. Pp: 173-181, ISSN: 1028-8880	2014	P. Chowdhury, R. Hari, B. Chakraborty, B. Mandal, S. Naskar, & N. Das
35	Tamarind Kernel Powder: A novel agro-residue for the production of cellobiose dehydrogenase under submerged fermentation by <i>Termitomyces clypeatus</i> .	J. Agril Food Chem., Vol- 62. Pp: 3438-3445, ISSN: 0021-8561, IF- 3.107	2014.	T. Saha, S. Sasmal, S. Alam &, N. Das
36	Isolation and characterization of some drug resistant bacteria from drinking water samples in Barasat, West Bengal.	J. Biol. Chem. Res., Vol. 31.Pp: 861-868, ISSN: 0970-4973	2014	N. Das , P. Sharma, D. Dey, S. Pal, A. Das, B..Mandal & N.C. Karmakar
37	Diversity of Mycoflora in conifer forests of Munsia and its adjoining areas of Uttarakhand, India.	Int. J Pt. animal End. Sci., Vol. 4. Pp 21-24, ISSN:2231-4490	2014	A.K. Das & N. Das
38	Isolation and physico-chemical characterisation of extracellular lingo-cellulolytic enzymes of <i>Pleurotus pulmonarius</i> in submerged fermentation.	International Journal of Applied Biology And Pharmaceutical Technology, 6 (3) (Accepted)	2015	N. Das , D. Dey, and S. Mishra
39	Comparative Study of Five <i>Pleurotus</i> species Cultivated in Warm Temperature on Non-sterilized Rice Straw	Emeritus Journal of Food and Agriculture, DOI: 10.9755/ejfa.2015.04.107	2015	N. Das , S. Mishra, L. Biswas, N.C. Karmakar

40	Anatomical and Physiological Adaptations of Mangroves	Wetland Ecology and Management, 23:357–370, DOI: 10.1007/s11273-014-9385-z, IF- 1.274	2015	S. Naskar and P. K. Palit
41	Characterization of some common members of the family Malvaceae s.s. on the basis of morphology of selective attributes: epicalyx, staminal tube, stigmatic head and trichome	Indian Journal of Plant Sciences, 4 (3): 79-86, ISSN: 2319–3824	2014	S. Naskar and R. Mandal
42	Leaf epicuticular and pollen ultrastructural comparisons of <i>Sonneratia apetala</i> Buch.-Ham. and <i>S. caseolaris</i> (L.) Engler (Sonneratiaceae)	Modern Phytomorphology, 7: 47-53, ISSN: 2226-3063	2015	S. Naskar
43	Numerical Taxonomy of some members of Acanthoideae <i>sensu</i> Scotland and Vollesen (Acanthaceae) from North 24 Parganas District, West Bengal, India based on Gross Morphology and Pollen Characters	International Research Journal of Biological Sciences, 4(6), 48-55, ISSN: 2278-3202	2015	S. Naskar
44	Photosynthesis and antioxidative enzyme activities in five Indian mangroves with respect to their adaptability.	Acta Physiologiae Plantarum, 33: 803-810. IF- 1.524	2011	N. Dasgupta, P. Nandy (Datta) and S. Das

45	Salinity imposed changes of some isozymes and total leaf protein expression in five mangroves from two different habitats.	Jour. Pl. Interactions, 5 (3): 211-221, IF- 0.865	2010	N. Dasgupta, P. Nandy (Datta) , C. Tiwari, and S. Das
46	Seed Vigour related DNA Marker in Rice shows Homology with Acetyl CoA Carboxylase Gene	Acta Physiologiae Plantarum ,32: 153 – 167, IF- 1.524	2010	Talai S , Sen-Mandi S
47	Study on the Occurrence of Algae from Metiabruz, Kolkata, West Bengal, India.	<i>Journal of Biodiversity and Environmental Sciences.</i> 3(1): 1-6	2013	Talai-Mukhopadhyay S , Naskar N.
48	Distribution and diversity of tapered blue-green algae (Rivulariaceae) in brackish water fisheries of Sundarbans, India.	<i>Indian Journal of Plant Sciences</i> 2(4):109-117	2013	Naskar N, Mukherjee A, Mukhopadhyay S , Naskar KR.
49	Studies on brackishwater epiphytic algae from Sundarbans in North 24 Parganas district, West Bengal, India.	<i>Research in Plant Biology</i> 3(6): 31-41	2013	Naskar N, Mukherjee A, Mukhopadhyay S , Naskar KR.
50	Screening of Antimicrobial and Antioxidative Potential of Selected Eastern Himalayan Mosses.	<i>European Journal of Medicinal Plants</i> 3(3): 422-428	2013	Talai Mukhopadhyay S , Mitra S, Biswas A, Das N, Poddar-Sarkar M.
51	Screening of Antimicrobial and Antioxidative Potential of Selected Eastern Himalayan Mosses	European Journal of Medicinal Plants (In Press)	2013	S. Talai Mukhopadhyay , S. Mitra, A. Biswas, N. Das and M. Poddar-Sarkar.

52	Study on the occurrence of algae from Metiabruz, Kolkata, West Bengal, India.	Journal of Biodiversity and Environmental Sciences Vol. 3, No. 1, p. 1-6,	2013	S. Talai-Mukhopadhyay and N.M. Naskar
53	Diversity of Cyanobacteria from Barasat, Kolkata, West Bengal, India.	<i>International Journal of innovative research and review</i> (In Press)	2015	Talai-Mukhopadhyay, S., Naskar, N.

Book chapters: 05

Sl. No.	Name of chapter	Editor and Publisher	Year	Author(s)
1	Indian <i>Swertia</i> from Eastern Himalaya: Strategies for conservation and biotechnological improvement	Invited review in a Book ‘The Gentianaceae Volume 1- Characterization and Ecology’ By Springer, In press.	2014	T. Samaddar, S. Jha and T.B. Jha
2	<i>Lycopodium clavatum</i> is an excellent plant source of free <i>myo</i> -inositol: A bench-friendly method for its isolation in unadulterated form and its plausible relevance in medicinal applications –	In “Sustainable use of Medicinal Plants” (ed. Pati, R.N.), Abhijit Publications, New Delhi - 110002 pp. 305-331(2012) ISBN: 978-93-81136-49-2 [invited article/ Book Chapter]	2012	Basak, A., Jha, T.B. and Adhikari, J.
3	Salt Stress: A Biochemical and Physiological Adaptation of Some Indian Halophytes	In: Molecular Stress Physiology of Plants Editor: G.R. Rout and A. B. Das. Ed: Springer ISBN No. 978-81-322-0806-8	2013	N. Dasgupta, P. Nandy (Datta) , and S. Das

4	Novel Fungal Enzymes in Environmental Remediation in Environmental Biotechnology and Application.	Discovery Publishing House Pvt. Ltd. New Delhi, pp: 71-103, ISBN: 978-93-5056-262-8	2012	D. Adhikari, N. Das, and S. Naskar. Edited by P. Kumar 'Bharti' & Avanish Chauhan
5	Management of an unequivocal socio-dermatological problem vitiligo involving medicinal plants	In "Herbal Drugs and Biotechnology" (ed. Trivedi, P.C.), pp. 370-390, Pointer Publishers, Jaipur, India (2010) ISBN: 978-81-7132-609-9 [Invited Article/ Book Chapter]	2010	Adhikari, J., Chhetri, D.R. and Chhetri, S.

Seminar/ Conference Papers: 16

Sl. No.	Name of paper	Name of Seminar/ Symposium & Venue, Year	Level	Presented by
1.	Cultivation of <i>Pleurotus fossulatus</i> on rice straw	Trends in Microbiology, 2009, A B N Seal College & UBKV	National	N. Das
2.	Solid state and submerged fermentations of <i>Pleurotus fossulatus</i> - an approach to sporeless fruiting bodies	SilverBot 2009 North Bengal University	National	P. Chowdhury & N. Das,
3.	Laccase-A marker enzyme for improvement and assessment of fruitbody production in oyster mushrm	Trends in Biodiversity and Bioresource management, 2010, A B N Seal College & UBKV	National	N. Das
4.	Isolation, culture optimization and physico-chemical characterization of laccase enzyme from <i>Pleurotus fossulatus</i>	Indian Science Congress Associaion, Kolkata, 2013	National	R. Hari, P. Chowdhury & N. Das

5.	The effect of curing of Plasmid on drug resistance and pesticide degradation in soil bacteria Disha-1	Birati College, 2013	National	S. Pal & N. Das
6.	Comparative Study of Fruiting Body Production of Some <i>Pleurotus spp.</i> in Two Different Temperature	3 RD World Science Congress, 2014	International	Sweta Mishra, Protik Chowdhury and N. Das
7.	Effects of particulate pollutants on Foliar Morphology ... <i>Polyalthia longifolia</i> Benth & Hook. f.	UGC sponsored National seminar on Emerging Trends in Plant Science 14-15, July, 2011, UGC and Dept of Botany Bethune College	Regional	N.C. Karmakar
8	Seedling morphology of Some members of Rosaceae from Darjeeling Himalaya and its Taxonomic Value	24 th Annual conference of Indian Association for Angiosperm Taxonomy (IAAT) and International conference on Trends in plant Systematics (TIPS) 31.10.2014-2.11.2014, Dept. of Plant Science, Bharathidasan University, Tiruchirappalli-620024, Tamil Nadu	International	N.C. Karmakar
9	An Autecological Study on <i>Eupatorium adenophorum</i> Spreng Commonly Found in Darjeeling Himalaya in Relation to Its Semi-vivipary and ggressioveness	UGC and DST Sponsored National Symposium on Advances in plant and Microbial Research, 12-13.12. 2014, Department of Botany (DRS-III), University of North Bengal, West Bengal	National	N.C. Karmakar
10	Effects of Chemically Fertilized Crop Field Leachete on the Mesophytic Vegetation at the Dry Pond Beds developed Through Seasonal Secondary Succession	National Symposium on Plant Diversity, Structure, Function, Utilization and Conservation Organized by Botanical	National	N.C. Karmakar

		Society of Bengal in collaboration with the Centre of Advanced Study, Dept. of Botany, C.U.4-6.12.2014, Dept. of Botany, C.U. Kolkata-700019		
11	Studies of Intra-specific Variation of <i>Avicennia marina</i> and Intra-specific variation of <i>A. marina</i> , <i>A. alba</i> and <i>A. officinalis</i> Based on Some Morphological, Anatomical and Physiological Characters	UGC Sponsored National Seminar on “Emerging Trends in Plant Science” held at Barasat Govt. College on 14 th & 15 th July, 2011, Post Graduate Department of Botany, Barasat Govt. College and Biological Science Division, Indian Statistical Institute	National	S. Naskar
12	Comparative study of <i>in-situ</i> and <i>ex-situ</i> plants of <i>Heritiera fomes</i> Buch.-Ham. and <i>Bruguiera gymnorhiza</i> (L.) Lamk. On the basis of some morphological, anatomical and physiological characters	UGC Sponsored National Seminar on “Emerging Trends in Plant Science” held at Barasat Govt. College on 14 th & 15 th July, 2011, Jointly organized by PG Department of Botany, Barasat Govt. College and Biological Science Division, Indian Statistical Institute	National	S. Naskar
13	Comparative study of <i>Sonneratia apetala</i> Buch. Ham. and <i>S. caseolaris</i> (L.) Engl. In Indian Sundarban based on pollen morphology, vessel structure and some morpho-anatomical characters	UGC Sponsored National Seminar on “Emerging Trends in Plant Science” held at Barasat Govt. College on 14 th & 15 th July, 2011, Organized by PG Department of Botany, Barasat Govt. College and Biological Science Division, Indian Statistical Institute	National	S. Naskar

14	Ultrastructural differences between <i>Sonneratia apetala</i> Buch.-Ham. and <i>S. caseolaris</i> (L.) Engler (Sonneratiaceae)	24 th Annual Conference of Indian Association for Angiosperm Taxonomy (IAAT) & International Conference on Trends in Plant Systematics (TIPS) from 31 st October to 2 nd November, 2014, Indian Association for Angiosperm Taxonomy (IAAT) & Bharathidasan University, Tiruchirapalli, Tamilnadu	International	S. Naskar
15	Landmark morphometric analysis of leaf shape variation in the genus <i>Avicennia</i> L. (Avicenniaceae) of India Sundarban	National Symposium on “Plant Diversity: Structure, Function, Utilization and Conservation” from 04 – 06 Decembers, 2014, Botanical Society of Bengal in Collaboration with Department of Botany, University of Calcutta	National	S. Naskar
16	Exploration of antimicrobial and antioxidative potential of some mosses collected from Eastern Himalayan forest cover. Poster presentation	100 th Indian Science Congress, 3-7 th January, 2013, University of Calcutta, Kolkata.	International	Talai-Mukhopadhyay S , Mitra S, Biswas A, Shaw M, Das N, Poddar-Sarkar, M.

Project work details of PG Sem IV Students of M.Sc. (Botany)

Department	Year	Student Name	Title of project	Supervising Faculty
Botany	2015	MEGHA GHOSH	EFFECT OF METHOMYL ON GROWTH AND PROTEIN PROFILE OF <i>BACILLUS SAFENSIS</i> AND <i>BACILLUS CEREUS</i>	DR. NIRMALENDU DAS
Botany	2015	MANISHA MAITY	BIOCHEMICAL AND ANTIMICROBIOLOGICAL PROPERTIES OF FRUITING BODIES OF <i>PLEUROTUS FOSSULATUS</i> OBTAINED FROM SUBMERGED FERMENTATION	DR. NIRMALENDU DAS
Botany	2015	PUSPITA ROY	ISOLATION AND CULTURE OPTIMIZATION OF LIGNINOLYTIC ENZYMES OF <i>P. FOSSULATUS</i>	DR. NIRMALENDU DAS
Botany	2015	TINA ROY	STUDY OF PGPR AND ANTIFUNGAL ACTIVITIES OF <i>BACILLUS CEREUS</i> AND <i>BACILLUS SAFENSIS</i>	DR. ANURADHA BANDOPADHYAY & DR. NIRMALENDU DAS
Botany	2015	DEBSOPAN ROY	ISOLATION & STUDYING GROWTH PATTERN OF ORGANOPHORUS PESTICIDE TOLERANT PHYLLOSPHERIC BACTERIA FROM LEAF SURFACE OF <i>MOMORDICA CHARANTINA</i> L	SRI BENU DHAR MONDAL
Botany	2015	SUBHRA PRAKASH BISWAS	EFFECT OF ORGANOSPHATE PESTICIDE (DIMETHOATE) ON SOME CYANOBACTERIA	SRI BENU DHAR MONDAL
Botany	2015	SONALI SAHA	GENE DUPLICATION & SALT TOLERANCE - CASE STUDY ON <i>ARABIDOPSIS</i> & <i>BRASSICA</i>	DR. PARAMITA NANDI
Botany	2015	JOHORA KHATUN	RESPONSE TO PESTICIDES, A STUDY ON TWO PULSE SPECIES. [<i>LENS ESCULENTA</i> MOECH. & <i>VIGNA RADIATA</i> (L.). WILCZEK]	DR. PARAMITA NANDI

Botany	2015	ANJAN HAZRA	MYOINOSITOL 1-PHOSPHATE SYNTHASE- THE CHOSEN PATH OF EVOLUTION	DR. PARAMITA NANDI
Botany	2015	MANJIMA MUKHERJEE	THE STUDY OF POACEAE FAMILY IN THE LIGHT OF MORPHOLOGY AND ANATOMY	DR. SAIKAT NASKAR
Botany	2015	PRIYANKA BISWAS	CHARACTERIZATION OF THE FAMILY SCROPHULARIACEAE S.L. ON THE BASIS OF GROSS MORPHOLOGY AND PETIOLE ANATOMY	DR. SAIKAT NASKAR
Botany	2015	PAYEL KHANRA	GROSS MORPHOLOGICAL, RETINACULAR AND POLLEN MORPHOLOGICAL STUDIES OF SOME MEMBER OF ANACTHACEAE	DR. SAIKAT NASKAR
Botany	2015	PUJA BAIDYA	MORPHOLOGICAL CHARACTERIZATION OF <i>CAPSICUM</i> FROM HOOGLY, NORTH & SOUTH 24 PARGANAS DISTRICTS OF WEST BENGAL	DR. SAIKAT NASKAR
Botany	2015	ATREYA SETT	ANALYSIS OF QUALITY OF WATER IN TWO DIFFERENT KINDS OF WATER BODIES	DR. N.C. KARMAKAR
Botany	2015	SHANKHAPRIYA KUNDU	EFFECT OF INORGANIC NUTRIENT CONTENT ON DISSOLVED OXYGEN AND BIOCHEMICAL OXYGEN DEMAND OF SOME PONDS AT BARASAT OF NORTH 24 PARGANAS, WB, INDIA	DR. N.C. KARMAKAR
Botany	2015	SRILINA PAUL	QUANTITATIVE STRUCTURE & DIVERSITY OF ALGAL COMMUNITY IN SOME USED AND UNUSED PONDS OF BARASAT SUBDIVISION OF NORTH 24 PARGANAS	DR. N.C. KARMAKAR

Botany	2015	TANIYA SANYAL	STUDY OF SALINITY AND DROUGHT STRESS ON TWO VARIETIES OF RICE PLANTS	DR. N.C. KARMAKAR
Botany	2015	ANINDITA ROY	LEAF DUST DEPOSITION AND ITS IMPACT ON BIOCHEMICAL ASPECT OF ROADSIDE PLANTS IN AIRPORT AREA, DUMDUM	DR. N.C. KARMAKAR
Botany	2015	PIYALI METYA	EFFECT OF SOME PRESERVATIVE SOLUTION ON VASE LIFE AND KEEPING QUALITY OF <i>GERBERA</i> (<i>GERBERA JAMESONII</i> L. CV <i>DANAELLEN</i>)	DR. KUNAL SEN
Botany	2015	RIYA CHANDRA	EFFECT OF TEMPERATURE DURING PRESERVATION OF (<i>MUSA SAPIENTUM</i> L.)	DR. KUNAL SEN
Botany	2015	BIDISHA DUTTA	EFFECT OF ROAD SIDE POLLUTANT OF JACKFRUIT LEAF.	DR. KUNAL SEN
Botany	2015	DIPIKA TALUKDAR	COMPARATIVE BIOCHEMICAL STUDY BETWEEN TWO AQUATIC PLANT (<i>AZOLLA</i> & <i>WOLFFIA</i>)	DR. KUNAL SEN
Botany	2015	PIYA RAHAMAN	EFFECT OF EXOGENOUS NITRIC OXIDE(NO) DONOR SODIUM NITROPRUSSIDE(SNP) IN RICE (<i>ORYZA SATIVA</i> L.) UNDER NACL STRESS.	PROF DEBENDU SHEKAR MOHANTI
Botany	2015	SHREYA DAS	EFFECT OF DIFFERENT SUGAR SOLUTIONS, SALICYLIC ACID & BENZOIC ACID ON THE VASE LIFE OF <i>GERBERA</i> (<i>GERBERA JAMESONII</i>).	PROF DEBENDU SHEKAR MOHANTI
Botany	2015	SARBANI CHAKROBORTY	COMPARATIVE BIOCHEMISTRY OF FIVE MAJOR VEGETABLES OF CUCURBITACEAE FAMILY	DR. KUNAL SEN & DR SUBHRA TALAI-MUKHOPADHYA Y

Botany	2015	LALTU BISWAS	COMPARATIVE STUDIES OF SOME <i>PLEUROTUS</i> SPECIES IN RELATION TO THEIR YIELD, MORPHOLOGICAL AND BIOCHEMICAL CHARACTERS	DR. NIRMALENDU DAS
Botany	2014	SAMARPITA GHOSH	ISOLATION, CULTURE OPTIMIZATION AND PARTIAL PURIFICATION OF LACCASE ENZYMES OF <i>PLEUROTUS PULMONARIUS</i>	DR. NIRMALENDU DAS
Botany	2014	ANUSRI DAS	CULTURE OPTIMIZATION FOR PESTICIDE (METHOMYL) DEGRADATION BY TWO BACTERIA DISHA-A AND DISHA-B ISOLATED FROM THE SOIL OF AGRICULTURAL FIELD	DR. NIRMALENDU DAS
Botany	2014	PARAMITA DAS	CHARACTERIZATION OF TWO SOIL BACTERIA ISOLATED FROM PESTICIDE TREATED AGRICULTURAL FIELD.	DR. NIRMALENDU DAS
Botany	2014	UDAY PRAMANICK	STUDY OF SALINITY STRESSED ON SOME MESOPHYTIC PLANTS UNDER LABORATORY CONDITIONS	DR. N. C. KARMAKAR
Botany	2014	GOLAM NAQI	STUDY ON THE EFFECT OF SOIL MICROFLORA ON SOME PHYSIOLOGICAL AND BIOCHEMICAL PROPERTIES OF SOME CROP PLANTS	DR. N. C. KARMAKAR
Botany	2014	KOEL SINGHA	STUDY ON THE CHANGE OF INHERENT SOIL PROPERTIES DUE TO CONTINUOUS AGRICULTURAL PRACTICES WITH CHEMICAL FERTILIZER	DR. N. C. KARMAKAR
Botany	2014	SHRESTHA BANERJEE	A COMPARATIVE STUDY OF PLANT COMMUNITIES AT DRY PONDS VIS-A -VICE PHYSICO-	DR. N. C. KARMAKAR

			CHEMICAL PROPERTIES OF SOIL AT TWO ECOLOGICALLY DIFFERENT AREAS CLOSE TO AND FAR WAY FROM A CULTIVATED LAND	
Botany	2014	TUMPA DAS	PHYTOCHEMICAL PROFILES & ANTIOXIDANT ACTIVITIES OF GRAPE	DR PARAMITA NANDI
Botany	2014	SUNIPA SEN	RESPONSE TO SALINITY, A STUDY ON <i>Nigella sativa</i>	DR PARAMITA NANDI
Botany	2014	APURBA MOHANTI	CHROMOSOMAL ANALYSIS IN DIFFERENT CULTIVERS OF LENTIL	PROF. TIMIR BARAN JHA
Botany	2014	ATASHI SEN	ISOLATION AND CHARACTERIZATION OF PESTISITE DEGRADAING PHYLLOSPHERIC BACTERIA FROM LEAF SERFACE OF <i>Monordica charantia</i>	SRI BENUDHAR MANDAL
Botany	2014	BEAUTI ROY	ISOLATION AND CHARACTERIZATION OF PESTISITE DEGRADAING PHYLLOSPHERIC BACTERIA FROM LEAF SERFACE OF <i>Amaranthus viridis</i>	SRI BENUDHAR MANDAL
Botany	2014	ANYESHA BHOWMICK	GEOMETRIC MORPHOMETRICS OF POLLEN SPINES OF MALVACEAE <i>SENSU STRICTO</i> AND ITS EVOLUTIONARY SIGNIFICANCE	DR. SAIKAT NASKAR
Botany	2014	RUHUL SEN	GEOMETRIC MORPHOMETRICS OF LEAF SHAPE: A CASE STUDY FROM <i>SIDA</i>	DR. SAIKAT NASKAR
Botany	2014	BIPLAB DAS	CHARACTER EVOLUTION IN MALVACEAE <i>S.L.</i>	DR. SAIKAT NASKAR
Botany	2013	ARNAB MUKHERJEE	SALINITY IMPOSED METABOLIC DRIFT IN <i>Vigna mungo</i>	DR. PARAMITA NANDI

Botany	2013	RABINDRANATH MONDAL	CLADISTICS ANALYSIS OF MALVACEAE ON THE BASIS OF SOME MORPHOLOGICAL TRAITS	DR. SAIKAT NASKAR
Botany	2013	KRISHNENDU BAIRAGI	STUDIES OF BIO-CHEMICAL ASPECTS IN LEAF AND STEM OF <i>Paederia foetida</i>	DR KAJARI LAHERI
Botany	2013	AVIJIT MONDAL	AN ATTEMPT TO STUDY OF PHYTOCHEMICALS IN LEAF AND STEM OF <i>Amaranthus viridis</i>	DR KAJARI LAHERI
Botany	2013	DEBAYAN DEY	ISOLATION & PHYTOCHEMICALS CHARACTERIZATION OF LIGNOCELLULOSIC ENZYMES FROM <i>Pleurotu</i>	DR NIRMALENDU DAS
Botany	2013	DIPANKAR HAZRA	SALINITY IMPOSED METABOLIC DRIFT IN <i>Vigna radiata</i>	DR. PARAMITA NANDI
Botany	2013	BELAL ALII	SALINITY IMPOSED METABOLIC DRIFT IN <i>Trigonella foenumgraecum</i>	DR. PARAMITA NANDI
Botany	2013	EKTA BHATTACHARYA	CYTOTOXIC AND GENOTOXIC EFFECTS OF GUTKHA USING <i>Alium cepa</i> ASSAY	DR. SHAYMAL CHAKRABORTY
Botany	2013	MOUMITA SEN	COPARATIVE STUDY ON SOME HALOPHYTIC & MESOPHYTIC ADAPTATIONS	DR. NARAYAN CH. KARMAKER
Botany	2013	DIPANWANITA CHAKROBORTY	CHARACTERIZATION OF THE FAMILY MALVACEAE BASED ON SOME MORPHOLOGICAL FEATURES	DR. SAIKAT NASKAR
Botany	2013	MONALISHA KARMOKAR	PRINCIPLE COMPONENT ANALYSIS OF LEAF RADIANT DATA TO STUDY VARIATION IN SOME SPECIES OF MALVACEAE	DR. SAIKAT NASKAR
Botany	2013	PRIYANKA SHARMA	ISOLATION & CHARACTERIZATION OF TWO DRUG RESISTANT BACTERIA FROM DIFFERENT SOURCES OF BARASAT REGIONS	DR. N. DAS

Botany	2013	TANIA PATHAK	COPARATIVE STUDY OF PHYSICO-CHEMICAL PROPERTIES OF SOIL FROM FIVE ECOLOGICALLY DIFFERENT AREAS & THEIR EFFECTS ON PLANT GROWTH PATTERN & PROTEIN PROFILING ON <i>Vigna radiata</i>	DR. N.C. KARMOKER
Botany	2013	POULOMI BISWAS	STUDY ON ALLELOPATHIC POTENTIALITY OF SOME HALOPHYTIC PLANTS	DR. N.C. KARMOKER
Botany	2013	SUBHRA PAL	THE EFFECT OF CURING OF PLASMID ON DRUG REGISTANT AND PESTICIDE DEDRADATION IN SOIL BACTERIA <i>Disha I</i>	DR. N. DAS
Botany	2013	ARITI DAS	ISOLATION AND CHARACTERIZATION OF PESTISITE DEGRADAING PHYLOSOPHERIC BACTERIA FROM LEAF SERFACE OF <i>Monordica charantia</i>	PROF BENUDHAR MANDAL
Botany	2013	POULOMI CHATTERJEE	SCREENING OF <i>USNEA SP</i> , <i>MURRAYA KOENIGII</i> & <i>ALOE VERA</i> EXTRACT AGAINST PATHOGEN & THEIR INTERACTION WITH BIOCONTROL AGENTS	DR. ANURADHA BHATTACHARYA
Botany	2013	RITUPARNA SAHA	PRELIMINARY STUDY OF PHYTOCHEMICALS OF THREE RICE VARIETIES	DR. SUBHRA TALAI MUKHOPADHYAY
Botany	2013	MOUMITA DEY	COMPARATIVE STUDY OF PHYSIOCHEMICAL PROPERTIES & MICROBIAL ACTIVITIES OF SOIL FROM FOUR ECOLOGICALLY DIFFERENT AREAS	DR. N.C KARMOKAR

Botany	2013	SWATI ROY	EVALUATION OF SOME RHIZASPHERIC FUNGI & BACTERIA FOR ANTAGONISTIC POTENTIAL AGAINST <i>Phytophthora</i> sp & <i>Macrophominia phaseolina</i>	DR. ANURADHA BHATTACHARYA
Botany	2013	Anamika Seal	QUANTITATIVE ANALYSIS OF BIOACTIVE CHEMICALS UNDER NORMAL & DIFFERENT STRESSED CONDITIONS IN <i>Moringa oleifera</i>	DR. KAJARI LAHERI
Botany	2013	SUBHADISHA KARMAKER	COMPARATIVE STUDY OF DIFFERENT CHEMICAL CONTENT OF MILLED & BROWN RICE OF THREE RICE VARIETIES	DR. SUBHRA TALAI MUKHOPADHYAY
Botany	2012	MITHUN CHAKROBORTY	QUALITATIVE & QUANTITATIVE CHARACTERIZATION OF ISOENZYME FROM <i>Pheselus radiatus</i> UNDER STRESS MEDIATED BY SALINITY	DR. PARAMITA NANDI
Botany	2012	SOURAV ACHARYA	ROLL OF INOSITOL INN RECOVERY OF MITOTIC DAMAGE	DR. PARAMITA NANDI
Botany	2012	MD ABU Toyeb Mondal	REGULATION OF L- MYO-INOSITOL-PHOSPHATE SYNTHASE GENE IN <i>PHASEOLUS RADIATUS</i> UNDER SALT STRESS	DR. PARAMITA NANDI
Botany	2012	PRITHA MUKHOPADHYAY	ANALYSIS OF REGULATORY ELEMENTS IN PRECURSORS OF MIR 156 FAMILY IN PLANT	PROF. SAYAK GANGULI
Botany	2012	JABA BANDYOPADHYAY	DETERIORATION OF SEED BY SEEDBORN FUNGI & BACTERIA	DR. A.K. DAS/ DR. NAIM UDDIN
Botany	2012	ANINDITA MAITY	EFFICACY OF TWO BIO EXTRACT (<i>Terminallia arjuna</i> & <i>ramalina</i>)	DR. NAIM UDDIN
Botany	2012	SHARMISTHA KOLEY	ANTIMICROBIAL ACTIVITIES OF LICHEN (<i>Parmelia</i> sp) AGAINST MICRO ORGANISM	DR. A.K. DAS/ DR. A. BANDAPADHYAY

Botany	2012	RAMA BISWAS	BIODIVERSITY OF Follicolous mycofloras ON ANGISPERM IN BAGNAN AND THEIR COMPARATIVE STUDIES	DR A.K. DAS/ DR A BANDAPADHYAY
Botany	2012	ANARADHA GHOSH	EVALUATION OF SOME RHIZOSPHERE FUNGI AND BACTERIA FOR ANTAGONESTIC POTENTIAL AGAINST <i>Fusarium oxysporum</i> & <i>Carvularia lunata</i>	DR A.K. DAS/ DR A BANDAPADHYAY
Botany	2012	SWATI SARKAR	TAXONOMIC STUDY OF VERVINACEAE WITH SPECIAL AMPHESIS TO PALINOLOGY & TRICHOM MORPHOLOGY	DR. SAIKAT NASKAR
Botany	2012	SUNITA SINGH	PHENETIC RELATIONSHIP BASED ON GROSS MORPHOLOGICAL AND PALYNOLOGICAL DATA OF SOME MEMBER OF THE FAMILI ACANTHACEAE	DR. SAIKAT NASKAR
Botany	2012	SWETA MISHRA	COMPARATIVE STUDIES OF ANTIMICROBIAL PROPERTIES OF EDIBLE MUSHROOM <i>PLEUROTUS</i> SPECIES	DR. N. DAS
Botany	2012	SUDESHNA PRAMANIK	ISOLATION AND CHARACTERIZATION OF SOME MULTIDRUG RESISTANT BACTERIA FROM DRINKING WATER SAMPLES AT BARASAT GOVT. COLLEGE	DR. N. DAS
Botany	2012	RANIA HARI	ISOLATION, CULTURE OPTIMIZATION AND PHYSICO-CHEMICAL CHARACTERIZATION OF LACCASE ENZYME FROM <i>PLEUROTUS FOSSULATUS</i>	DR. N. DAS
Botany	2012	DISHARI CHATTERJEE	ISOLATION, CHARACTERIZATION AND IDENTIFICATION OF A METHOMYL DEGRADING BACTERIA FROM CULTIVATED SOIL	DR. N. DAS

Botany	2012	RABISANKAR DAS	DETERMINATION OF PRIMARY PRODUCTIVITY IN POND ECOSYSTEM	DR. N. C. KARMAKER
Botany	2012	DIPNIL BANERJEE	QUALITATIVE AND QUANTITATIVE STUDY OF THE PLANT COMMUNITIES LINING KESHTOPUR CANAL	DR. N. C. KARMAKER
Botany	2012	TUHIN PAL	COMPARISON OF PHYSIOCHEMICAL PROPERTIES OF SOIL BETWEEN POLLUTED & UNPOLLUTED & MAN MANIPULATED AREA VIS-A-VIS THEIR PRODUCTIVITY	DR. N. C. KARMAKER
Botany	2012	TONIMA SAHA	AN ATTEMPT TO INCREASE THE SELF LIFE OF SEASONAL VEGITABLE (<i>Trichosanthes dioica</i>)	PROF NILAY KR. MITRA
Botany	2012	FAIYAZ AHMAD	AN ATTEMPT TO DETAY THE RIPENING OF COMMON FRUIT BANANNA	PROF NILAY KR. MITRA
Botany	2012	SANCHITA MALICK	STUDY OF IRON, ZINK & TOTAL ANTIOXIDANT POTENTIAL OF SOME INDIGENUS RICE VARIETIES WITH REFERENCE TO THEIR GERMINATION PERFORMANCE	DR. SUBHRA TALAI MUKHOPADHYAY
Botany	2012	MONISHA SHAW	ANTIOXIDANT ACTIVITY & PHYTOCHEMICAL SCREENING OF FOUR BIOPHYTES OF EASTERN HIMALAYA	DR. SUBHRA TALAI MUKHOPADHYAY
Botany	2012	BINITA SATAPATHY	PARTIAL PURIFICATION & CHARACTERIZATION OF ALPHA AMYLASE FROM MUSHROOM Pleuro sp	PROF NILAY KR. MITRA

3. DEPARTMENT OF CHEMISTRY

Name of the faculty: Dr. Sanat Kumar Saha

Publication:

1. A Brief Review on Charge Transfer Complexes with Non-ionic Surfactants., Sanjit Kuila and Sanat Kumar Saha, *Acad. J. Aureole*, **3(2)**, (2011) pp-124-131

Conference/Symposia/Seminar/Workshop attended:

Name of Seminar	Status	Date
Modern Trends of Research in Chemistry: Scope of inclusion in Under –graduate and Post-graduate Courses.	National Seminar	7 th and 8 th September 2011 At Barasat Govt. College. Barasat, 24 PGS(North), West Bengal

Name of the faculty: Dr. Prabir Kumar Sen

List of Publications:

1. *Bargellini Condensation Reaction*. P. K. Sen, *Acad. J. Aureole* 3(2), pp-108-113 (2011).
2. *Application of Bargellini Condensation Reaction: An approach to overcome the Heliannaul C synthesis*, P. K. Sen; A. Mondal; S. Muhuri. *Acad. J. Aureole* 4, pp-17-21 (2013).
3. *An Approach to Overcome the total Synthesis of Helianane*. P. K. Sen, *Acad. J. Aureole* 5(1), pp-52-58 (2014).

Name of the faculty: Dr. Soma Nath (Deoghoria)

Publication:

1. *Magnetic Exchange Interactions in Transition Metal Pseudohalide-Bridged Complexes*. Soma Nath (Deoghoria), *Acad. J. Aureole*, Vol-5(1), pp-59-66 (2014).

Seminar Attended

1. National Seminar at Rajabazar Science College, Calcutta University, organized by Indian Chemical Society on 1st And 2nd August 2014.

Name of the faculty: Dr. Dipanwita Majumdar**List of Publications:**

1. 'Epitaxial growth of crystalline polyaniline on reduced graphene oxide'; D. Majumdar, M. Baskey and S. K. Saha, *Macromol. Rapid Commun.* 32 (2011) 1277. [IF= 4.608] (Citation=14).
2. 'Graphene quantum sheet: A new material for spintronic application.' S. K. Saha, M. Baskey, D. Majumdar. *Adv. Mater.* 22 (2010) 5531 (Appeared as Research Highlights in NPG Asia Materials) [IF=15.409] (Citations=24)
3. 'Observation of ferroelectric response in conjugated polymer nanotubes.' D Majumdar and S K Saha; *Appl. Phys. Lett.*, 96 (2010) 183113 (Appeared in Virtual J of Nanoscience & Nanotechnology). [IF=3.515] (Citations=04)
4. 'Poly(3-hexylthiophene) nanotubes with superior electronic and optical properties.' D Majumdar and S. K. Saha; *Chem. Phys. Lett.*, 489 (2010) 219. [IF=1.897] (Citation=03).
5. 'Synthesis of single crystalline micron-sized rectangular silver bar.' B Mondal, D Majumdar and S K Saha; *J. Mater. Research.* 25 (2010) 383. [I.F.=1.815] (Citation=00)
6. 'Charge Transport in Polypyrrole Nanotubes.' D. Majumdar, S.K.Saha, *J. Nano Sc. & Nanotech.* (Accepted 2015). [I.F.=1.339]
7. 'Scope of Inclusion of Nanotechnology in UG and PG courses in India' D. Majumdar, *Academic J. Aureole*, 3 (2011) 114. [ISSN-0976-9625]. Citation=00
8. 'Graphene and its composites as "supercaps". D. Majumdar, *Academic J. Aureole*, 4 (2013) 11. [ISSN-0976-9625]. Citation=00
9. 'Reduced Graphene Oxide: An Efficient Supercapacitor Material'. D. Majumdar, *Academic J. Aureole*, 5(2014). [ISSN-0976-9625]. citation=00

Books (Chapter):

1. “*Nanopesticides: A Challenging Domain of Current Research*” by D Majumdar in the book : “*Green Chemistry and Sustainable Agriculture Practices: A Step towards a better future*”, Edited by Tanmoy Chattopadhyaya and Biplab Bhowmik Published by MS Academic in collaboration with Panchkot Mahavidyalaya Purulia 2013 [ISBN No: 978-81-921697-3-6].

Oral Presentations, Workshops, Poster presentations

2011: Oral Presentation: At IACS on “Ferroelectric Response in Conjugated Polymers”.

2011: Poster presentation: At SreeGopal Banerjee College, Bagati, Mogra, Hooghly, West Bengal on “Epitaxial Growth of Single Crystalline Polyaniline on Reduced Graphene Oxide to grow High Quality P-N Junction”.

2012: Workshop: At IIT Bombay on "Frontiers of Excellence in Photovoltaic Science and Technology".

2013: Oral Presentation: At Panchkot Mahavidyalaya, Purulia. ON THE TOPIC “Nanopesticides: A Challenging Domain of Current Research” by D Majumdar 2013.

Name of the faculty: Dr. Sanjukta Muhuri

List of Publications:

1. *Effect of Locked Nucleic Acid Modifications on the Thermal Stability of Noncanonical DNA Structure*. J. Bhattacharyya, S. Maiti, **S. Muhuri**, S.-ichi Nakano, D. Miyoshi, N. Sugimoto. *Biochemistry*, Vol. 50, (2011) pp 7414–7425.
2. *RNA- Small Molecule Conjugates*. **S. Muhuri**. *Academic J. Aureole*, Vol. 3, (2011) pp-132-138.
3. *Application of Bargellini Condensation Reaction: An approach to overcome the Heliannaul C synthesis*, P. K. Sen; A. Mondal; **S. Muhuri**. *Acad. J. Aureole*, Vol. 4, (2013) pp-17-21.
4. *Recent Advances of Aromatic Nitration Reaction*, **S. Muhuri**. *Acad. J. Aureole*, Vol. 5(1), (2014) pp-35-41.

Book Chapter:

1. *DNA Conjugates and Sensors. Editor(s): Keith R Fox, Tom Brown. Chapter: Small Molecules – RNA Conjugates. pp 103-118, Copyright: 2012. Publisher: Royal Society of Chemistry (RSC), ISBN: 978-1-84973-427-1*

Seminars attended:

1. UGC sponsored National Seminar on Current Trends in Chemistry organized by Kalyani University on 25th Feb, 2011.
2. UGC sponsored National Seminar jointly organized by PG Dept of Botany, Barasat Govt. College and Biological Sc. Dept., ISI, Kolkata on 14th & 15th July, 2011.
3. UGC sponsored National seminar jointly organized by Chemistry Dept. of Barasat Govt. College and IACS, Kolkata on 7th & 8th Sept, 2011.

Name of the faculty: Dr. Nabakumar Bera

Workshops/Seminars attended

1. UGC-sponsored National Seminar on “Frontier Areas of Chemistry-A Modern Perspective” on February 25 & 26, 2010, organized by Department of Chemistry, Ramakrishna Mission Vidyamandira, in collaboration with the Indian Association for the Cultivation of Science.
2. UGC-sponsored State Level Seminar on “Technologies of Revolution: Society, Economy & Polity” on March 4 & 5, 2010, jointly organized by Barasat Govt. College and Paschim Banga Itihas Samsad.
3. One day seminar on “Recent Trends in the Research on Atomic, Molecular and Optical (AMO) Physics” on March 17, 2010, organized by Indian Physical Society in association with the Indian Association for the Cultivation of Science.
4. UGC-sponsored National Seminar on “Modern Trends in Spectroscopy: Its application in Chemistry & Biology” on February 3 & 4, 2011, organized by Department of Microbiology & Department of Chemistry, Maulana Azad College, in association with the Indian Association for the Cultivation of Science.
5. One day meeting on “Condensed Matter Physics (In honour of Prof. J. K. Bhattacharjee)” on March 04, 2011, organized by Department of Theoretical Physics, Indian Association for the Cultivation of Science.
6. UGC-sponsored National Seminar on “Modern Trends of Research in Chemistry: Scope of Inclusion in Undergraduate and Post-graduate Courses” on September 7 & 8, 2011, organized by Barasat Govt. College.

7. UGC-sponsored National Seminar on “Some Modern Aspects in Chemical Research-Grooming of UG and PG Students”, on February 7 & 8, 2012 organized by Department of Chemistry, Bidhannagar College.

List of Publications:

1. Free Electron Model to Understand the Aromaticity, Antiaromaticity and Nonaromaticity in Cyclic Conjugated Hydrocarbons, P. Ghosh, M. Sultana and **N. Bera**, Aureole (An Academic Journal, ISSN 0976-9625), **3**, 149-168 (2011) [**I. F.-0.0 citation-0**].
2. Classical and revival time periods of confined harmonic oscillator, P. Ghosh, S. Ghosh and **N. Bera**, Indian J. Phys, **89(2)**, 157-166 (2014) [**I. F.-1.785; citation-0**].
3. Finite size effect on classical ideal gas revisited, P. Ghosh, S. Ghosh, J. Mitra and **N. Bera**, accepted in Eur. J. Phys (2015). [**I. F.- 0.629; citation-0**]

Name of the faculty: Dr. Asim Kumar Majee (Transferred)

Seminars/Workshops attended

1. ‘Recent advances in the frontiers of Physics’ Department of Physics Bidhannagar College. UGC sponsored national Seminar – 2013.
2. UGC sponsored national level seminar- ‘Frontier areas of Chemistry – A modern perspective’ – 2010. Ramkrishna Mission Vidyamandira, Belur Math.
3. UGC sponsored national level seminar- ‘Challenges ahead in higher education’ – 2010. WBGCTA.
4. UGC sponsored national level seminar- ‘Some modern aspects in chemical research – grooming of UG and PG students’ – 2012. Department of Chemistry, Bidhannagar College.
5. UGC sponsored state level seminar – ‘Technologies on revolution: society, economy & Polity. Barasat Government College. 2010.

Publications

1. Proceedings of UGC sponsored national seminar. ‘Some Modern Aspects in Chemical Research – grooming of UG and PG students’ Issue No. 1, Page No. 89 (2012)

4. DEPARTMENT OF ECONOMICS

Name of the faculty: Dr. Rajnarayan Gupta

Resource person/paper presentation

Delivered invited lecture on “Macroeconomic Theory and Policy” in Tech Mahindra & Mahindra Satyam at their offices in Kolkata, Hyderabad, Pune, Mumbai & Noida in 2010 & 2011.

List of Publications:

- 1. Gupta, Rajnarayan & Das, Ishita** (2013): “Relationship between Price and Rent in the Real Estate Market and Stability Analysis: A Theoretical Approach”, *Indian Economic Review*, Vol. XLVII, No. 2.
- 2. Gupta, Rajnarayan** (2012): “Factors Affecting Stock Prices: The Linkage between Stock Market and Product Market”, *Indian Journal of Finance*, Vol.6, No.3.
- 3. Gupta, Rajnarayan** (2010): “Movement of SENSEX: Domestic and International Factors”, *Finance India*, Vol. XXIV, No.1
- 4. Gupta, Rajnarayan** (2011): “Understanding the Relationship of Domestic and International Factors with Stock Prices in India: An Application of ARCH”, *Academy of Accounting and Financial Studies Journal (USA)*, Vol. 15, No. 2.
- 5. Gupta, Rajnarayan, Jain, Neha & Pal, Monaranjan**(2011), “Women Empowerment in India”, in U. K. De and B. N. Ghosh (ed.), *Gender Deprivation & Empowerment of Women : An Indian Perspective*, LmbH & Co. KG, Saarbrucken, Germany.
- 6. Gupta, Rajnarayan** (2011): “Consumerism in India: Inter – State Variations in Rural and Urban Sectors”, *The Asian Economic Review*, Vol. 53, No. 2.
- 7. Gupta, Rajnarayan** (2011): “Consumerism in India: A Study Based on NSS Data”, in D. Sarker (ed.), *Theory and Empirics of Economics in the Current Perspective*, Allied Publishers Pvt Ltd, New Delhi.
- 8. Gupta, Rajnarayan** (2011): “Commodity Derivative Market in India: The Past, Present and Future”, *Analytique*, Vol. VII, No. 2.
- 9. Gupta, Rajnarayan** (2010), “Consumerism – The Trend in India”, *Analytique*, Vol VI, No. 5.

10. Gupta, Rajnarayan (2009): “Domestic and International Factors Governing Stock Price Level: The Case of an Emerging Economy”, Conference Proceedings (refereed), *Conference of the International Journal of Arts and Sciences (Toronto)*, Vol. 1(14).

11. Gupta, Rajnarayan (2009): “Rising Consumerism in India: Myth or Reality? A Study Based on NSS Data”, *Arthabeekshan*, Vol 18, No.1.

12. Gupta, Rajnarayan (2009): “ The Nexus Between Agricultural and Industrial Prices in India : A Time-Series Study”, in D. Sarker (ed.), *Agriculture-Industry Interactions – An Approach to Developing Economies*, Gyan Publications, New Delhi.

Name of faculty: Dr. Arindam Bhattacharya (Transferred)

List of Publications:

1. Arindam Bhattacharyya (2008):“Rationale for Public Investment in Primary Education in Developing Countries, Objective Articulation From Socio-Academic Spectrum-A collection of writings from Conference Proceedings “ *An Endeavour Towards Developing Social Awareness*, Barasat Government College, March 17-20, 2008,pp 58-63.

2. Arindam Bhattacharyya (2011):“Inefficient Primary Education and Inaction of Stakeholders’, an enquiry in *Acad. J*”, *Aureole* 3(1), pp 32-40 (2011). (ISSN 0976-9625)

3. Arindam Bhattacharyya (2014):“Status-quo in Primary Education Structure-the role of Parental Behaviour”*Arthabisleshan*, Vol (2) Issue 1, pp 54-65 (ISSN 2321-1903)

4.Arindam Bhattacharyya (2015):“Primary Education in West Bengal-A case of Moral Hazard”,*Asian Journal for Research in Social Science and Humanities*(ISSN 2250-1665),Vol V, ISSUE 3, March 2015, pp 70-77

5. Arindam Bhattacharyya (2015):“Education and New Theories of Growth”,*Asian Journal for Research in Social Science and Humanities*(ISSN 2250-1665), Forthcoming, May 2015

Name of the faculty: Dr. Sudeshna Chattopadhyay

Presentations at conferences and seminars:

- *Competitiveness of India's Apparel Exports* at the 24th Annual Conference on Contemporary Issues in Development Economics at Jadavpur University held on December, 20, 22-23, 2014.

- *Efficiency of the Indian Garment Manufacturing Units in the post MFA period* at the Fifth National Seminar on Industrial Statistics held during 29-30 October, 2014 organized by the Central Statistical Organization
- *Indian Gems and Jewellery Industry: An Enquiry into the Nature of Competitive Advantage* co authored by Sarmila Banerjee at the UGC sponsored International Conference on Contemporary Issues in Economic Development held at Kalyani University on 21-22 March 2013
- *Indian Gems and Jewellery Industry: An Enquiry into the Nature of Competitive Advantage* co authored by Sarmila Banerjee at the UGC sponsored seminar on **Contemporary Issues in Development Economics** held at Rabindra Bharati University, Kolkata, on 20-21 March, 2012.
- *Pollution Control Instruments in the Presence of an Informal Sector* co authored by Sarmila Banerjee and Katrin Millock at the **17th Annual Conference of the European Association of Environmental and Resource Economists (EAERE)** held at the VU University in Amsterdam, the Netherlands during 24-27 June 2009
- *Pollution Control Instruments in the Presence of an Informal Sector* co authored by Sarmila Banerjee and Katrin Millock at the UGC sponsored seminar on “Globalisation: Conceptual and Empirical Issues” organized by the Department of Economics, Rabindra Bharati University, Kolkata, during 26-27 March, 2009.

List of Publications:

1. **Sudeshna Chattopadhyay** (2015): “Efficiency of the Indian Garment Manufacturing Units in the post MFA period” in *The Journal of Industrial Statistics*, 4 (1).
2. **Sudeshna Chattopadhyay** (2013): “Indian Gems and Jewellery Industry: An Enquiry into the Nature of Competitive Advantage”. (co-author: Sarmila Banerjee) in Banerjee S. & A. Chakrabarti (eds) *Development and Sustainability: India in a Global Perspective*, Springer.
3. **Sudeshna Chattopadhyay** (2013): “Shifting of Pollution Loads to Informal Units in India: A Possible Escape Route for Compliance with WTO Standards” (co-author: Sarmila Banerjee) in *Foreign Trade Review*, 48(1).
4. **Sudeshna Chattopadhyay** (2010): “Pollution Control Instruments in the Presence of an Informal Sector” (co-authors: Sarmila Banerjee & Katrin Millock) *CES Working Paper* No: 2010.103, CNRS Paris School of Economics, Centre d’Economie de la Sorbonne, Pateon-Sorbonne Universite’ Paris 1.

Name of the faculty: Dr. Mriganka De Sarkar (transferred)**List of Publications:**

- 1. Mriganka De Sarkar**(2012):“Poverty and Common Property Resource: The Interlinkage”in *Look East*; Vol. 4 (accepted for publication).
- 2. Mriganka De Sarkar**(2012):“Impact of Thermal Power Plant’s Emission: Health Hazards and Loss of Income – Case of Titagarh Generating Station”, *Journal of Integrated Research and Development*, Vol. 1, No.1, pp 19-31.
- 3. Mriganka De Sarkar**(2011):“Performance of Some Selected Polluting Industries in Pre and Post Liberalization era of India – Some Observations” in *Look East*, Vol.3, pp 38-72.
- 4. Mriganka De Sarkar** (2010):“Thermal Power Plants: The Ticking Bomb? Case of Kolaghat Thermal Power Stationin Acad. J”, *Aureole* 2(1), pp 24-36. **2010**
- 5. Mriganka De Sarkar**(2009):“Health Effects of Outdoor Air Pollution in Acad. J” *Aureole* 1(1), pp 45-65.

5. DEPARTMENT OF ENGLISH

Name of the faculty: Dr. Basabi Roy Chowdhury

Seminar attended

UGC sponsored State level seminar on *Popular Fiction: Cultural Artifact or Commercial Product* organized by Department of English, Gour Mohan Sachin Mandal Mahavidyalaya, in association with the American Library, Kolkata (March, 2010).

Name of the faculty: Ms. Swaty Mitra

Seminar attended

Participated in a Group Discussion on Gender and Literature organised by *Pegasus*, Kolkata (a non-profit making Journal) in *Bhawanipore Girls's College*, Kolkata.

Resource person/paper presentation

1. Presented a Paper on *Delinquency and the Inversion of the Gothic in Doris Lessing's 'The Fifth Child'* in UGC Sponsored National Seminar on **Post-Fifties British Literature: Texts and Contexts**, Organised by the Department of English, M.U. C. Women's College, Burdwan, West Bengal.
2. Presented a Paper on *Growing Old Gracefully – Are We?* in UGC Sponsored National Seminar on **Cultural Studies: Theories and Praxes**, Organised by the Department of English, Berhampore Girls' College, in collaboration with the Department of English, *Kalyani University*, West Bengal

List of Publications:

Sl No.	BOOK'S NAME	ARTICLE'S NAME	PUBLISHER	YEAR	ISBN
1	POST FIFTIES BRITISH LITERATURE: AN ANTHOLOGY OF CRITICAL ESSAYS	Delinquency and the Inversion of the Gothic in Doris Lessing's <i>The Fifth Child</i>	Department of English, MUC Women's College, Burdwan, WB	2014	978-93- 5196- 723-1

Name of the faculty: Dr. Debjani Roy Moulik (Transferred)

Seminars attended

1. UGC Sponsored State Level Seminar titled *"Only Connect": The Bridging of Cultures, Ages and Art Forms Through Shakespeare* organized by SivanathSastri College on December 20, 2011.
2. UGC Sponsored National Level Seminar titled *Transposing Cultures Translating Texts: A Reappraisal of Indian English Literature(s)*, organized by Sarsuna College on February 2 and 3, 2012.

List of Publications:

Sl No	Book's Name	Article's Name	Publisher	Year	ISBN
1	Different faces different voices	Emergence of the 'new woman' in the 19th century Bengal : Her education and liberation	Barasat Government College	2012	978-93-80673-72-1
2	Aureole	Public theatre in Bengal : history behind it's foundation	Barasat Government College	2014	ISSN 0976-9625
3	Aureole	Societies and association in the 19th century Bengal	Barasat Government College	2015	ISSN 0976-9625
4	Mahesh Dattani and Metatheatre : A study of new social issues	Taboo as theme : Alternate sexualities and incest in Dattani's plays	Manglam Publishers, New Delhi	2014	97882983521
5	Book released by women's studies centre, Lady Brabourne College	Binodini Dashi o Bangarangamancha	SetuPrakasani	Due	
6	Marginalized writings	Autobiographies of the triply marginalized : A study of Binodini Dashi's <i>my story and my life as an actress</i>			

Name of the faculty: Ms. Sharmistha Das (On Lien)**Seminars attended**

UGC sponsored national seminar at Ramnagar College, Digha - 'Women in Elizabethan Literature'

Seminar paper presented

1. "Self as the Other: Subjectivity and Narrative in Doris Lessing's *The Golden Notebook*" presented at UGC sponsored two day National Seminar on *Post Fifties British Literature: Text and Context*, Organized by MUC Women's College, Burdwan, in collaboration with Indian Association of Studies of Australia, Kolkata (September 2013).
2. "Doris Lessing's African Laughter: A Travel Book beyond Generic Boundaries" presented at a two day National Seminar on *Placing the Space: Facets and Prospects of Travel Writing*, organized by Aliah University (September 2014).

List of Publications:

Book's name	Article's name	Publisher	Year	ISBN
Critical perspectives on contemporary English literature	Doris Lessing's Children of Violence : A Feminist Bildungsroman	Vivekananda Mahavidyalayapublication unit	2009-2010	978-81-906258-14
Unheard melody journal of English literature	Palimpsest as a strategy of encounter in R.P.Jhabvala's <i>Heat and Dust</i>	Sarup Publishers, New Delhi	2012	ISSN 2229-4236
Women in Elizabethan England	Representation of women in Elizabethan literature	Gyan Books Pvt Ltd, New Delhi	2013	9351280780, 9789351280781
Modernization vis-à-vis post modernism	A modernist reading of Doris Lessing's <i>the Golden Notebook</i>	A sojourn imprint publication	2014	978-920398-0-8
Dialogic space issue vol 2	Female bonding in Tony Morrison's <i>Sula</i>	Chandrardh, Amarpur	2013	
Post fifties British literature: an anthology of critical essays	Self as the other : subjectivity and narrative in Doris Lessing's <i>the Golden Notebook</i>	Department of English, MUC Women's college, Burdwan, WB	2014	978-93-5196-723-1

Name of the faculty: Mr. Ambarish Sen**Seminars attended**

UGC sponsored short course on "Disaster Management" at JU Academic Staff College 17.03.2012.

Resource person/paper presentation

1. Paper on Partition Literature presented in UGC sponsored national seminar held at Nabagram Hiralal Pal College on November 2011.
2. Paper presented on the Partition of Bengal and Tagore's influence in UGC sponsored National seminar held at Panchyot Mahavidyalaya Purulia, December 2011.

List of Publications:

Book's name	Article's name	Publisher	Year	ISBN
Ethics & Identity In Contemporary Indo-English Poetry	The Search For The Integrity/Identity Of Self...An Illuminating Study Of A.K.Ramanujan's Poetry	Authorspress	2012	978-81-7213-654-5
The Novels Of Amitav Ghosh An Analytical Appraisal	Problem Of Migration In Amitav Ghosh's <i>The Sea Of Poppies</i>	B. R. Publishing Corp.	2013	13:9789350500620
The Fiction Of Amitav Ghosh A Critical Commentary	The Voice Of The Subaltern In Amitav Ghosh's Fiction	Atlantic	2013	978-81-269-1793-8
Indian Booker Prize Winners	Nation's History Revisited In Salman Rushdie's <i>The Midnight's Children</i>	B. R. Publishing Corp.	2013	13:9789350501245

Name of the faculty: Ms. Mandira Mitra

Publication

The Conspiracy of Silence and the Calcutta Chronotype as a Narrativizing Strategy in The Calcutta Chromosome in *Aureole* vol. 3, 2011.

Name of the faculty: Ms. Kuntala Sengupta (Part-time)

Seminar attended

National Conference (UGC sponsored) on Women and Spaces: Engendering and Regendering Identities, organized by Vidyasagar Evening College in collaboration with Ramakrishna Mission Institute of Culture, Golpark, Kolkata on 29th-30th August, 2011.

Paper presentations in seminar:

- Paper titled 'Reading between the Rhymes: Analysing the Politics of Translation' presented in the UGC Sponsored National Seminar on Literature and Translation held in Bidhannagar College, Kolkata, 2-3 August, 2013.
- Paper and PPT entitled 'Reading the canvas of JayasriBurman: Colour, Culture and Consumer' presented in UGC Sponsored National Seminar on POST POSTCOLONIAL: THEORY AND TEXTS, in the Young Scholars' Seminar organized by DRS (SAP-III) Phase-II on February 22nd & 23rd, 2012, held in University of Calcutta.
- Paper titled 'Inverted Violence: Reading the Backlash of Hegemony in *The Jungle Book*, *Shooting an Elephant* and *Miss Tomato!*' presented in the UGC Sponsored National Seminar on Indian Literary Historiography and Counter Currents in Postcoloniality, held by the Postgraduate Dept of English, St Thomas College in Kozhencherry, Kerala, 27th and 28th September 2011.

6. DEPARTMENT OF GEOGRAPHY

Name of the faculty: Dr. Ruksanara Begum

Seminar/ Conferences attended:

Sl. No.	Title of the Seminar	Sponsoring Agency	Place and Date
1.	National Seminar on Changing Environmental Scenario Of Indian Subcontinent: A geographical Appraisal	University Grants Commission	Department of Geography, Barrackpore Rastraguru Surendranath College North 24 Parganas (25-26 th November 2011)
2.	National Seminar on Women and Literature: Different Faces Different Voices	University Grants Commission	Barasat Government College(16 th – 17 th January 2012)

List of Publications:

Sl. No.	Title of the Paper	Name of the Journal	ISSN/ ISBN No.	Name of the main author	No. of co author
1.	Level of Literacy of Muslim Women – A Case Study Of Kolkata	Journal of Women's Studies (Accepted)	ISSN-2320-3625	Dr Ruksanara Begum	1
2.	Evolution of Map From its Origin to the Recent Period	Acad. J. Aureole Vol 4,2013	ISSN-0976-9625	Dr Ruksanara Begum	nil
3.	Demographic Profile of Muslims and Spatial Changes of Muslim Female Status – A Case Study of Kolkata	Indian Journal of Landscape Systems And Ecological Studies, Vol 37, No. 1, 2014	ISSN-0971-4170	Dr Ruksanara Begum	1

4.	Bidyadhari – A river Flowing At Present With Great Misery To An Unknown Destiny	Acad. J. Aureole Vol 4,2014	ISSN- 0976- 9625	Dr Ruksanara Begum	nil
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Paper presented in Seminars/ Conferences:

Sl. No.	Title of the paper presented	Title of Conference/ Seminar	Organizer	Level
1.	Educational Status of Muslim Women of Kolkata	Poverty and development in South Asia	University of Calcutta Year- 2007	International
2.	Work Participation of Muslim Women – A case study of Kolkata	Dimensions of Development and Resource Conservation	University of Calcutta Year- 2012	International
3.	Spatial Variation of Economic Profile and Empowerment – A Study On Females Of The Largest Minority Religious Group Of Kolkata.	Contemporary Research in Geography	Bhairab Ganguly College Year- 2007	National
4.	Two Opposite Practices Of Muslim Marriage – A Case Study Of Kolkata	Environmental perspective and Resource Management	Institute of Landscape, Ecology And Ekistics, Kolkata Year - 2014	International

Name of the faculty: Dr. Sourama Saha

List of Publications:

Sl no.	Name of the Journal	Title of the Paper	ISSN No.	Published on
1.	Acme International Journal of Multidisciplinary Research	Urban Spatial Structural Problem: Housing Congestion And Its Related Environmental Issues- A Case Study On Rajarhat-Gopalpur Municipality, District- North 24 Parganas, West Bengal	2320-236x	Volume-II, Issue-XII December-2014
2.	Aureole	Clay doll industry of Krishnanagar- a uniformity of industry and culture	0976-9625	Vol. 5, 2014
3.	Geographical Review of India	Spatio-Temporal variation of Agricultural Productivity in Jalpaiguri District	0375-6386	Volume- 75 Issue-4, December-2013
4.	Geographical Review of India	Constraints of growth and development of Katwa Town in Burdwan District of West Bengal	0375-6386	Volume-74 issue-1 March -2012
5.	Institute of Landscape, Ecology and Ekistics	Environmental impact on Human Habitat- A case study on Lataguri Villegge, Block – Mal, Dist.-Jalpaiguri	0971-4170	Vol-34, December-2011

Publication of Books

Sl No.	Title of the Books	Name of the Publishers	ISBN No. (if any)	Published on
1.	Bhougolic Poribesh O Porichiti	Ideal Publisher	-	January 2015
2.	Bhugol Sabdakosh (A Dictionary in Geography)	Progressive Publisher	81-8064-244-5	July 2013
3.	Uchhamadhyamik Bhugol	Paschimbanga Rajya Pustak Parsad	978-81-247-0727-2	May 2013

Attended in seminar and conferences

Title of the Seminar	Sponsoring Agency	Place and Date
International Seminar on Globalization Capital Crisis and Inclusive Development: Myth and Realities	University Grant Commission	Lady Brabourne College(22 nd -23 rd December 2010)
State level seminar on technologies and revolution: society, Economy and Policy	University Grant Commission	Barasat Government College(4 th -5 th March 2010)
National Seminar on Globalization Urban Governance	University Grant Commission	Dr. G. M Roy College, Burdwan(8 th -9 th October 2010)
National Seminar on Natural Resource Management	UGC-DRS(SAP)	Department of Geography University of Calcutta(10 th -11 th March 2011)
National Seminar on Contemporary Research in Geography	Bhairab Ganguli College in collaboration with NATMO	Bhairab Ganguli College(14 th -15 th March,2014)
National Seminar on Application of Modern Techniques for the Management of Contemporary Environmental Hazard and Disasters	University Grant Commission	Department of Geography, Haringhata Mashavidyalaya(5 th -6 th September,2014)
International Seminar on Environmental perspective and resource management	Institute of Landscape, Ecology and Ekistics, Kolkata	Department of Geography, University of Calcutta (19 th -20 th December,2014)

Name of the faculty: Dr. Chandan Surabhi Das

Seminar/ Conferences Paper presented:

Presented a paper on **human wildlife conflict in Sundarban** at National conference on Harmony with nature in context of environmental issues and challenges of the 21st century, 28-30 November, 2014 at M. L. Sukhadia University, Rajasthan

List of Publications In Peer Review Journals

2010	Kyoto Protocol: failure or Success? Indian journal of landscape System & Ecological Studies , 33(1): 155-162.
2010	Dwindling Indian Sundarban mangroves: The way out, Science & Culture, Kolkata , 76(7-8): 275-282.
2012	Tiger straying incidents in Indian Sundarban: statistical analysis of case studies as well as depredation caused by conflict, Eur J Wildl Res, Springer , 58 (1): 205-214
2013	Declining snake population—why and how:a case study in the Mangrove Swamps of Sundarban, India, Eur J Wildl Res, Springer , 59 (2): 227-235
2014	Causes, Consequences and Cost-Benefit Analysis of the Conflicts Caused by Tiger Straying Incidents in Sundarban, India, <i>Proceedings of the Zoological Society</i> , Springer , DOI 10.1007/s12595-014-0105-8.
2014	Success & failure of Participatory Forest Management in India: A case Study of Indian Sundarban. Manan , 1(1): 34-44.

Papers In Edited Volume

2011	Characterisation and prevention of large carnivore-human conflict in Sundarban: a case study of tiger straying incidents, In: Naskar, K.R & Bhattacharya, A. (eds), <i>Sundarban Issues & Threats</i> , ICAR & SKSU Publication, Kolkata: 18-28.
2012	Biotic hazards in Indian Sundarban: A Study of Characterisation and prevention of human-wildlife conflicts, In: Desai, M & Halder, A (eds), <i>Coping with Disasters</i> , Avhijeet Publications, New Delhi: 217-242
2012	An epidemiological Study of vulnerability and Mortality of Snakebite in Sundarban, West Bengal, In: Chatterjee, S(ed), <i>Community Awareness In Sundarban: Combat Physical And Social Hazards</i> , acb Publications, Kolkata: 123-141
2015	Air Pollution: Industrialization & Urbanization (Bengali), In: Dey, J (ed), <i>Jakhan Prithibi Bipanno</i> , Bijnan Anneswak Prakashani, West Bengal: 26-33
2015 (In Press)	Analysing Human-wildlife conflicts in Sundarban; In: Ghosh, A.K (ed), <i>Biodiversity of Sundarban</i> , WWF India, New Delhi.

Books Published

Year of Publication	Title of Book	Author (s)	Publisher
2010	Human Geography (Bengali)	Chandan Surabhi Das & Tapas Kr. Pramanik	Pritam Publication 37A College St, Kolkata 700073
2011	Global Warning (Bengali)	Chandan Surabhi Das	<i>Grantha Mitra</i> 37A College St, Kolkata 700073
2012	Sharing Space Human-wildlife conflicts in Indian Sundarban (English)	Chandan Surabhi Das & Sunando Bandhyapadhyay	Progressive Publication, 37A College St, Kolkata 700073
2013	H.S. Geography (Part 1&2) (Bengali)	Chandan Surabhi Das & Tarapada Satra	Dey Book Conceren, 15 Shamacharan Dey St, Kolkata 700073
2014	H.S Practical Geography (Part 1&2) (Bengali)	Chandan Surabhi Das	Naboday Publications, Surjyo Sen St, Kolkata
2015	Madhyamik Bhugol (ix)(Bengali)	Chandan Surabhi Das	Ideal Publication, Ramanath Majumder St, Kolkata

Name of the faculty: Mrs. Shrabana Mazumder

Seminar Presentation:

Sl. No.	Title of the paper presented	Title of Conference/ Seminar	Organizer	Level
1.	Disparity in Health Care: A Picture of Different Districts of West Bengal	Environmental perspective and Resource Management	Institute of Landscape, Ecology And Ekistics, Kolkata Year - 2014	International
2.	Tribes and Development: Aparadigm Shift in the Socio-Cultural Behavior of Totos	Recent Researches in earth System Science	Dept. of Geography and Geology Ashutosh College	National Seminar

3.	“Acculturation and Identity Crisis/ Loss: Case Study of a Hill Tribe”	‘ Natural Resource s and Rural Livelihoods among Tribes in Hilly Are as	Department of Geography North-Eastern Hill University, Shillong	International Seminar
4.	“Livelihood Generation and Way to Empowerment: a case-study of Forest Villages of Chilapata”,	Rural Development: Challenges & Opportunities”	Geographical Society of North Bengal, Alipurduar with partial assistance by Dept of Economic Analysis and Research, NABARD	National
5	Home Based work an Economic Empowerment of Women:A Case Study of Babanan Village , Hugli District of West Bengal	Changing Status of Women in India: Dimensions and Concerns	Centre for women Studies, University of North Bengal	National
6	“ SLUM A REFLECTION OF SOCIAL DEPRIVATION AND URBAN POVERTY- CASE STUDY OF COOCH BEHAR MUNICIPAL AREA”,	12 th International Asian Urbanization Conference on Urban Dynamics, Environment and Health: Challenges for the Twenty First Century	Department of Geography, Banaras Hindu University Varanasi, U.P. India	International

List of Publications:

Sl. No.	Title of the Paper	Name of the Journal	ISSN/ ISBN No.	Name of the main author	No. of co author
1.	Health Status of Women Agricultural Workers: A Case Study of Polba Village in Hugli District of W.B.”	“Victoria J. Arts, Vol. IV No. 1”- ABN. Seal College,p.65	ISSN:09 75-5632	Shrabana Mazumder	nil

2	“ ECOTOURISM: A COMPREHENSIVE DEVELOPMENTAL APPROACH FOR FOREST VILLAGES OF JALPAI GURI DISTRICT”,	Victoria J. Arts, Vol. IV No. 1”- ABN. Seal College,p.79	ISSN:09 75-5632	Shrabana Mazumder	nil
3	Gender and Agricultural work- Livelihood Crisis of Women Agricultural Workers in Hooghly District of West Bengal,	Annals, V.XXX, No.2, December 2010.	ISSN:09 70-972X	Dr.Gopa Samanta	1

Attended in seminar and conferences

Title of the Seminar	Sponsoring Agency	Place and Date
Ethnicity, Regionalism, Polity & Economy of Eastern India Since Independence” -	University Grants Commission	ABN. Seal College- 20 th & 21 st December 2010.
“Performance of 3 rd Generation Panchayats in North Bengal”-	University Grants Commission	ABN. Seal College 4 th & 5 th December, 2010
“Indian Women in Crossroads: Transition from Colonization to Globalization”-	University Grants Commission	ABN. Seal College 26 th & 27 th November, 2010
Adyapak Satya Sundar Barman Memorial lecture:3 “Ganatantra Manabdhikar”	Govt. Sponsored Seminar in collaboration with A.B.S.G.C.T.A	A.B.N.Seal College ,Cooch Behar(College level (Govt. sponsored), 16 th January, 2013)
“Relevance of Swami Vivekananda in the Present Social & Economic Scenario”	University Grants Commission	Department of Economics and Commerce, Coch Behar College in Collaboration with Ramkrishna Math, Cooch Behar 1 st & 2 nd April, 2013

Workshop Attended:

Sl. No.	Title of Workshop	Organizer	Level
1.	Basic Data Handling for Empirical Research in Humanities and Social Sciences: use of SPSS and STATA software	IQAC & Dept. of Economics Hooghly Women's College, on 13 th and 14 th January, 2015.	UGC sponsored State level Workshop

Name of the faculty: Mr. Aznarul Islam

Presentations in Conferences/Seminars

Sl. No.	Title of the paper presented	Title of Conference/ Seminar	Organizer	Level
1.	Rabindranath Tagore in Geography	National Seminar on 'Rabindranath Tagore: Nationalism and Internationalism'	Shimurali Sachinandan College of Education, Nadia in Collaboration with Haringhata Mahavidlaya, Nadia. August 19-20, 2011	National
2	Water Scarcity in the North-Eastern States of India : Mechanisms and Mitigations,	National Seminar on Challenges and Mitigation of Drought in India,	Department of Geography, Kashipur Michael Madhusudan Mahavidlaya, Puruliya. September 9-10, 2011	National
3	Pattern of Gender based Human Development in the Krishnanagar Urban Area,	NAGI, 33 rd Indian Geography Congress	Dept. of Geography, the University of Burdwan. November 11-13, 2011	National
4	Variability of Stream Discharge and Bank Erosion – A Case Study on the River Bhagirathi	State level Seminar on Environmental Degradation and Strategies for Conservation and Management	Dept. of Geography, Krishnagar Govt. College, Nadia. November 24-25, 2011	State level
5	Climate Change and Development – A Global Perspective	UGC Sponsored National Seminar, Climate Change and Backward areas: Doings and wellbeing	Panchakot Mahavidyalaya, Purulia, West Bengal. November 24-25, 2011	National

6	A Socio-Economic perspective on the Infant Mortality in West Bengal, India	UGC Sponsored State Level Seminar on Infant Mortality in 21 st Century with Special Focus on West Bengal	Srikrishna College, Bagula, Nadia 24 th Dec. 2011	State level
7	The Indians – The Victims of Racism at Home and Abroad,	UGC Sponsored National Seminar on Channing Society, Culture and its Impacts on People	Sambhunath College, Birbhum West Bengal 14-15 th Feb. 2012	National
8	Urban Morphology of an Unplanned City- A Study on Krishnanagar City, West Bengal	International Conference on Dimensions of Development and Resource Conservation,	Dept. of Geography, University of Calcutta 10-12 March 2012	International
9	A comparative Study on the morphological Structure of Kalyani- A Planned City and Krishnanagar- An Unplanned City of Nadia District, West Bengal	National Seminar of Geography of Today: Problems and Prospects	Indian Geographical Foundation 23-25 March, 2012	National
10	Alternative Resource generation and livelihood development against the bank erosion hazard of River Bhagirathi	Literature and Natural resources	Centre for Development Studies and Research, Krishnagar 13th January, 2013	State level
11	Social engineering for bank erosion victims-a study along the river Bhagirathi within the stretch of Nadia district, west Bengal,	35 th Indian Geographers Meet and International conference,	Dept. Of Geography, The University of Burdwan, 11-13 November, 2013	international
12	Integrating Channel Instability, bank erosion and Land use planning : a Study along the left bank of river Bhagirathi in Nadia district, West Bengal	International Seminar 2014	Centre for Development Studies and Research, Krishnagar 18-19th January, 2014	International

13	Environmental Philosophy and Detribalization: A contradiction between thinking and doing	Ugc sponsored National Seminar on Socio-Economic Environment of the Tribes of India with special reference to the Santals	Turku Hansda Lapsa Hemram Mahavidlaya 19-20th September, 2014	National
14	Sustainable development of Ground Water: A Perspective from Environmental Ethics	Ground Water: Issues and Challenges of the 21st Century	Sripat Singh College, Jiaganj, Murshidabad 29-30th December, 2014	International
15	Search for Social Justice for the bank erosion induced ecological refugees in Murshidabad District west Bengal	Social Well being: Issues and Challenges in 21st Century India	Dept. of Geography, University of Gour Banga 7th January, 2015	National
16	Evolution of Mid Channel Bar: A factor of Social Fusion or fission	National Seminar on Images of Geography	Foundation of Practising Geographers 6-7th February, 2015	National
17	Quality Standardization in Air and Water including Detection of Radioactivity in Aquatic Medium & Plant Body	DST-GoWB Sponsored Hands-on-Training programme	Dept. of Environmental Science, Burdwan University Feb 24 to Mar. 3, 2012	-
18	Statistical Techniques	Workshop on Methodology in Geographical Research	PG Dept. of Geography, Vivekananda College for Women 3,10,17, 31 st January, 2015	-

List of publications:

Sl. No.	Title of the Paper	Name of the Journal	ISSN/ ISBN No.	Name of the main author	No. of co author	Level
1	Variability of Stream Discharge and Bank Erosion – A Case Study on the River Bhagirathi	Journal of River Research Institute –River Behaviour and Control, Volume 31, 2010-2011 pp. 55-66	0970-9258	Aznarul Islam	nil	National
2	A Comparative Study of Level of Social Well-being between Slum and Non-Slum Population- A case Study of selected wards of Krishnanagar Municipality, Volume 34, No. 1,	Indian Journal of Landscape Systems and Ecological Studies, Volume 34, No. 1, pp. 357-364	0971-4170	Aznarul Islam	nil	National
3	Road Accident Analysis- A case Study in Krishnanagar Urban Area,	Journal of Interacademia, Volume- 15, No. 2, , pp. 232-239	0971-9016	Aznarul Islam	nil	International
4	‘Death Before Birth’- A Study On Female Foeticide In India,	MS Academic , 1(3): 94-99,	2229-6484	Samsunnnessa Khatun	1 (Aznarul Islam)	International
5	Unstable River Bank and the Question of Social Stability: A Study on Rukunpur Mouza in C.D. Block Krishnagar II, Nadia,	Journal of River Research Institute –River Behaviour and Control, Volume 32, pp. 53-65	0970-9258	Aznarul Islam	nil	National
6	CLIMATE CHANGE AND DEVELOPMENT - A GLOBAL PERSPECTIVE,	PANCHAKOTESSAYS	0976-4968	Aznarul Islam	1	International

7	Rabindranath Tagore in Geography	Practising Geographer, Vol. 15 No. 2, , pp. 230- 235	0975- 3850	Aznarul Islam	nil	National
8	AN ANALYSIS OF THE MORPHOLOGICAL STRUCTURE OF KALYANI-A PLANNED CITY OF NADIA DISTRICT, WEST BENGAL	Golden Research Thoughts, Vol.1,Issue.XI/May 2012pp.1-4	2231- 5063	Syffujaman Tarafer	1 (Aznarul Islam)	International
9	An Areal Variation Of Fluvial Hazard Perceptions Of Various Social Groups- A Perspective From Rural West Bengal, India	Indian Streams Research Journal, Vol. 2, No. 9, pp. 1-4	2230- 7849	Aznarul Islam	2	International
10	Water Scarcity in the North-Eastern States of India: Mechanisms and Mitigations,	Indian Streams Research Journal, Vol. 2, No. 11, , pp. 1-4	2230- 7850	Aznarul Islam	nil	international
11	Urban Morphology of an Unplanned city: a study on Krishnanagar City, West Bengal, India	Practising Geographer, Vol. 17 No. 1, , pp. 107- 120	0975- 3850	Aznarul Islam	1	National
12	Indians- the victims of racism at home and abroad	MS Academic , 2(1): 117-121,	2229- 6484	Aznarul Islam	nil	International
13	ROLE OF WOMEN IN RESOURCE MANAGEMENT AT HOUSEHOLD LEVEL - A GLIMPSE OF RURAL WEST Bengal	Golden Research Thoughts, Volume 2, Issue. 6, Dec. 2012, pp. 1-8	2231- 5063	Prasenjit Ghosh	2 (N. Laskar & Aznarul Islam)	International

14	Integrating channel instability, bank erosion and land use planning along the left bank of river Bhagirathi in Nadia District, West Bengal	Journal of River Research Institute -River Behaviour and Control, Volume 34, pp. 11-26	0970-9258	Aznarul Islam	1	National
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Books and Chapters in Books

Sl No.	Title of the Article	Author	Co-Author	Name of the Publisher/Month /Year	ISBN/ISSN
15.	Pattern of gender-based human development in Krishnanagar City, West Bengal in Edited volume Resources and Development edited by N.C. Jana and Lakshmi, Sivaramakrishnan	Aznarul Islam	nil	Progressive Publisher, 2013	9788180642524,
16.	Is Severity of River Bank Erosion Proportional to Social Vulnerability? A Perspective from West Bengal, India in the Edited Volume Life and Living Through Newer Spectrum of Geography edited by Ismail and Alam	Aznarul Islam	1	Mohit Publisher, 2015	978-81-7445-690-8

7. DEPARTMENT OF HISTORY

Name of faculty: Mr. Prabal Bagchi

Seminar/workshop attended

1. 2010 – Writing economic history of India / workshop at the Institute of Development Studies, Kolkata.
2. Attended Seminar on “Metacognition” organized by the Philosophy Deptt. of Krishnanagar College on Sept. 8 & 9th, 2010.
3. Attended Seminar on “Local History and periphery” at Palta College, 24-parganas (n), 2011.
4. Attended Seminar on “Bengal, Locality and nationalist history” at Serampore College, 2011.
5. Participated UGC sponsored National Seminar on Women & Literature: Different faces, different voices at Barasat Govt. College on 16 & 17 January, 2012.
6. Attended Seminar on “Rabindranath and Nationalism” at Ravindra Mahavidyalaya, March 2012.
7. Attended Indian History Congress at Malda, Patiala, Mumbai and New Delhi respectively from 2010 to 2014.

Resource person/paper presentation:

1. Delivered a lecture on “Idea of India” at Presidency College (FAEA Workshop), December 2013.
2. Delivered extension lecture on “Popular culture in 19th Calcutta-its political economic background” at Mahadevananda College, Barrackpore on 17 April, 2014.
3. Presented a paper on “origin and pattern of film business in India with special reference to Bengal (1896-1931) at IHC, held at Punjabi University, Patiala, 2011

List of Publications:

1. Contributor of two chapters each in class VII & VIII history text book (West Bengal Board of Secondary Education).
2. Text Book: Uchchamadyamik Itihas (XII), published by WB State Book Board, 2014.

Name of the faculty: Mr. Rajkumar Chakrabarti

Resource person/paper presentation

1. Delivered a special lecture at the PG Department, History, Fakir Chand College on 1st February, 2015.

List of Publications:

1. Book: *Itihascharcha: Nirman Abinaman Bikriti* (In Bengali), A collection of essays on History and Historiography (ISBN 978-81-910826-4-7), Ebong Mushaera, Kolkata, 2010
2. Edited book: *Nation and Its Tribal People, Historical Political and Literary Perspectives*, Edited with a long introduction, Jointly with Kalyan Chatterjee (ISBN 978-93-81672-88-4), Books Way, Kolkata, 2012
3. Text Book: *Uchchamadyamik Itihas* (XI), WBSBB, 2013,
4. Text Book: *Uchchamadyamik Itihas* (XII), WBSBB, 2014,
4. Article: Hobsbawmer Marx, Anustup, Shit-Grishmo Sankhya, 2013
5. Article: Janatar Notun Aafim o Uttoraner Anischayata, Sanbikshan, 22th Edition, 2014
6. Article: Communist Party, Partytantro o Buddhijibir Swadhinata, Anustup, Special issue on Buddhijibi, 2013
7. Article: Stalin-Lenin Ninda, Itihaser Punorbichar o Soviet Byabosthar Paton, Anustup, Sharodiya issue, 2014
8. Research Article: Sovietization in Eastern Europe: Reflections from Recent Studies, Aureole, An Academic Journal, Vol 5, No. 2, 2014, ISSN no. 0976-9625
- 9.

Name of the faculty: Mr. Samir Mandal (Transferred)

Publication:

1. Swadhinottarkale Paschimbange Narider Madhye College Sikshar Prasar (1947-1977), Itihas Anusandhan 29 January, 2015.

Name of the faculty: Dr. Aparna Bandyopadhyay (Transferred)

Resource person/paper presentation

1. Presented Paper titled 'Asati Bidhabar Bishayadhikar Sankranta Mokaddama O Oupanibeshik Ain-Adalater Charitra' at the 27th Annual Conference of Paschimbanga Itihas Samsad held on 24-26 January, 2011 at the University of Calcutta, Alipore Campus.

List of Publications:

1. 'Of Sin, Crime and Punishment: Elopements in Bengal 1929' in Samita Sen, Ranjita Biswas and Nandita Dhawan (eds.), *Intimate Others: Marriage and Sexualities in India*, Stree, Kolkata, 2011. ISBN No. 81-906760-1-6.
2. 'Streer Patra Ebang....' [Apropos Streer Patra] in P.K. Das, S. Mukhopadhyay and N. Jana (eds.), *Technologies of Revolution: Society, Economy and Polity*, Barasat Government College, Kolkata, 2011.

3. 'The Politics of Reading: A Study of the Critical Responses to Nirupama Devi's Novels' in Simonti Sen (ed.), *They Dared: Essays in Honour of Pritilata Waddar*, Bethune College, Kolkata and Gangchil, 2011. ISBN No: 978-93-81346-14-3.
4. 'Nobeli Bhut: Upanyas o Unish Shataker Bangali Meyera' [The Ghost of Novels: The Novel and Nineteenth Century Bengali Women] in *Sangbikshan Sankalan* vol 19, 2011.

Name of the faculty: Mrs. Nandini Jana (Transferred)

List of Publications:

1. 'The Brahmo Reform Endeavour and the Question of Stri-Swadhinata' *Aureole: An Academic Journal*, Vol.3, No.1, pp. 41- 53, 2011.(ISSN 0976-9625)
2. Sushilar Upakhyar: 'Sekale O Ekale' (pp. 792-798)
Manju Chattopadhyay, ed, *Itihas Anusandhan-25*, published in January, 2011
(Collection of essays presented at the 26th Annual Conference of Paschimbanga Itihas Samsad, held in January, 2010)

Manju Chattopadhyay, ed, *Itihas Anusandhan-26*, published in January, 2012
(Collection of essays presented at the 27th Annual Conference of Paschimbanga Itihas Samsad, held in January, 2011)
ISBN: 978-81-910874-1-3
3. Brahmo Samskarak Shibchandra Deber Samskarer Aloke Narimuktir Proshno' pp. 980-986, 2011 (ISBN: 978-81-910874-2-0)

Name of the faculty: Dr. Sukanya Dutta (Transferred)

1. Book: "Economic history of Modern India from the World War I to 1947", New Delhi, 2012

8. DEPARTMENT OF MATHEMATICS

Name of the faculty: Dr. Prasanta Paul

List of Publications:

1. Some properties of β -divergence measures. "B.N.Seal Journal of Science (ISSN-097505624), 2010, Vol. III, pp 1-6.
2. A characteristic result on past and generalized past entropies. "B.N.Seal Journal of Science (ISSN- 097505624), 2011, Vol. IV, pp 1-5.
3. A comparative study between LR order and PE order. Proceeding of UGC sponsored national seminar on Recent Advanced in the application of Mathematical Analysis and Computational Techniques in Applied Science, organized by Siliguri College during 02-12-2011 to 04-12-2011. Pp 15-18.
4. Ordering of life distribution in terms of reversed time. "Aureole – An Academic Journal" (ISSN- 0976-9625), 2013, Vol.-4 pp 88-92.
5. Some weighted distribution results in terms of reversed time. "Aureole – An Academic Journal" (ISSN- 0976-9625), 2014 Vol. 5(No.1) pp 85-88.

Seminar Attended/ Paper Presentation

1. National Seminar on Mathematics and its Applications (NSMA 2014) On March 4-5, 2014 Organized by Department of Mathematics, University of Kalyani Sponsored by UGC-DRS-SAP (Phase-I)
2. National Seminar on Recent Developments in Mathematics and its Applications on March 12, 2014, Organized by Department of Pure Mathematics, University of Calcutta.
3. International Conference on Current Developments in Mathematics and Mathematical Sciences (ICCDMMMS-2014) On December 19-21, 2014 Organized by Calcutta Mathematical Society.
4. National Workshop and Conference on Discrete Mathematics and its Applications (NWCDMA 2014) March 10-14, 2014 Organized by Jadavpur University.

Name of faculty: Mr. Jayanta Biswas

List of Publications:

1. Generalized Binomial Theorem and Collatz's cycle. "Aureole – An Academic Journal" (ISSN- 0976-9625), 2013.

2. Abstraction of Complex Numbers. “Aureole – An Academic Journal” (ISSN- 0976-9625), 2014 (Accepted).
3. Mapping as Binary Relation, “Manan”, Vol. 2, pp 40, 2015.
4. Shift Irreflexive Binary Relation and Collatz Conjecture, “Mac Journal of Basic and Applied Sciences” Vol. 2, pp 87, 2015.

Seminar Attended

1. Seminar titled, “Dao Phire Se Aranyo O Paribesh”, on 06.10.2012, organized by Moulana Azad College.
2. Seminar titled, “KhudraByabsaiPratyakhsaBideshiBiniyog”, on 15.12.2012, organized by Chandannagar College.
3. One day workshop titled, “Diabetes Awareness and Screening”, on 11.02.2013, organized by BarasatSaharAdhyapak-O-GabesakSamity at West Bengal State University.

Name of the faculty: Dr. Indranath Bhattacharyya

List of Publications:

1. I. Bhattacharyya, *Neutrino mass generation in the $SO(4)$ mode*, Communication in Theoretical Physics **54**, 310 (2010)
2. I. Bhattacharyya, *Can massless neutrinos oscillate in presence of matter?*, Fundamental Journal of Mathematical Physics **3**, 23 (2013)
3. I. Bhattacharyya, *Superluminal neutrinos in the framework of extended standard model*, Fundamental Journal of Modern Physics **5**, 59 (2013)
4. I. Bhattacharyya, *Possibility for the existence of photon mass: a theoretical framework*, Fundamental Journal of Mathematical Physics **3**, 45 (2013)
5. I. Bhattacharyya, *The onset of the bipolar flavor conversion of supernova neutrinos*, Fundamental Journal of Modern Physics **7**, 91 (2014)

Paper Presentations

1. *The onset of the bipolar flavor conversion of the supernova neutrinos*, XIX DAE-BRNS High Energy Physics Symposium-2010 organized by DAE High Energy Physics Group (13 – 18 December 2010)
2. *The possibility of the existence of superluminal neutrinos: A theoretical framework*, Emerging Trends in Applied Mathematics organized by Department of Applied Mathematics, University of Calcutta (12 – 14 February 2014)

Refresher Course attended

Refresher Course in Recent Advances in Mathematics for Applied Sciences organized by UGC – Academic Staff College, Department of Mathematics, Jadavpur University (25 October – 11 November 2010)

Name of the faculty: Dr. ShobhanMandal

List of Publications:

[1] Dutta, T. K. and Mandal, S. : General Type of Regularity and Semiprime Ideals in Ternary Semiring; Advances in algebraic structure, Proceedings of International conference in Algebra, World Scientific, INC., 219-232, 2010.

ISBN: 978-981-4366-30-4 (hardcover)

[2] Kar, S.; Sircar, J. and Mandal, S.: On Right Strongly Prime Ternary Semirings; East-West J. of Mathematics, 12, No 1(2010) pp. 59-68. **ISSN: 1513-489X**

[3] Dutta, T. K.; Mandal, S. and Sircar, J.: On Right Strongly Prime Ternary Semirings II; International J. of mathematics and Applications; 4, No. 2, (2011), 197-205. **ISSN: 0974-5084**

[4] Dutta, T. K.; Mandal, S. and Sircar, J. : On Uniformly Strongly Prime Ternary Semirings; Southeast Asian Bulletin of Mathematics, 36(2012), 43-56.**ISSN: 0129-2021**

[5] Dutta, T. K.; Shum, K. P. and Mandal, S.: Singular Ideals of Ternary Semirings; European Journal of Pure and Applied Mathematics, 5, No. 2(2012), 116-128.**ISSN:1307-5543**

[6] Dutta, T. K.; Shum, K. P. and Mandal, S.: Weakly Special Radical Class and Special Radical Class of Ternary Semirings; European Journal of Pure and Applied Mathematics, Vol. 5, No. 4, 2012, 401-413. **ISSN: 1307-5543**

Seminars/Conferences attended:

1. **On Uniformly Strongly Prime Ternary semirings**
International Conference on Groupoids, Semigroups and Automata, University of Kerala, August, 2010
2. **Recent Trends in Mathematics and its Application**
Department of Pure Mathematics, University of Calcutta, Kolkata, March 22, 2013
3. **Some Topics of Algebra and Analysis**
Department of Mathematics, Lady Brabourne College, Kolkata, May 30, 2012
4. **National Seminar on Mathematics and its Application**
Department of Pure Mathematics, University of Calcutta, Kolkata, February 22-23, 2011
5. **Computational Commutative Algebra**
Advanced Instructional School organized by IISER, Pune, December 13-31, 2010

9. DEPARTMENT OF PHYSICS

1. Research activities of the existing full time and guest faculty.

A) Year wise impact factor gained by full time faculty members of physics Department for the period. Also the number of papers indexed in SCOPUS is given per year basis.

SL. No.	Name	2010-11		2011-12		2012-13		2013-14		2014-15		2015-16	
		Impact Factor	No. Of papers Indexed in SCOPUS	Impact Factor	No. Of papers Indexed in SCOPUS	Impact Factor	No. Of papers Indexed in SCOPUS	Impact Factor	No. Of papers Indexed in SCOPUS	Impact Factor	No. Of papers Indexed in SCOPUS	Impact Factor	No. Of papers Indexed in SCOPUS
1	Pradip Mukherjee	9.279	01	6.111	01	4.643		0.00		6.019	01	12.895	02
2.	Sankar Mandal	0.001	01	2.11		0.00		0.00		0.00		0.00	
3.	Srijit Bhattacharya	12.026	01	0.00		13.485	02	13.253	01	9.752	01	3.733	
4.	Mina Majumder	1.879		0.00		0.00		0.00		0.00		0.00	
5.	Jyotirmoy Maiti	0.00		0.00		12.13		18.592		12.222		4.643	
6.	Somenath Bhattacharya	0.00		0.00		0.00		0.00		0.00		0.00	
7.	Sutapa Ghosh	2.736	01	0.000		0.000		0.00		0.00		0.00	
8.	Amit Singha Roy	0.00		0.00		0.00		0.00		0.00		5.084	01
9.	Ajita Sengupta	0.00		0.00		0.00		0.00		0.00		0.00	
10.	Shilabhadra Chatterjee	0.00		0.00		0.00		0.00		0.00		0.00	
11.	Dhananjoy Roy	0.00		0.00		0.00		0.501		0.00		0.00	
12.	Sudip Mukherjee	0.00		0.00		0.00		0.00		0.00		1.399	
13	Debopriyo Syam Retired from the department on 31.08.2013	0.00		4.81		6.131							

B) Details of research publications and other academic activities of the full time faculty. All publications, the impact factor of which are quoted within bracket are in international journals.

Name of the faculty: Prof. Pradip Mukherjee

List of publications:

1. Rabin Banerjee, Arpita Mitra, **Pradip Mukherjee**, “General algorithm for nonrelativistic diffeomorphism invariance”; Phys. Rev. D **91** (2015), 8, 084021. (**Impact factor 4.643**)
2. Rabin Banerjee, Arpita Mitra, **Pradip Mukherjee**, “Localisation of the Galilean Symmetry and dynamical realization of Newton-Cartan geometry”; Class.Quant.Grav. **32** (2015) 4, 045010. (**Impact factor 3.168**)
3. Rabin Banerjee, Arpita Mitra, **Pradip Mukherjee**, “A new formulation of non-relativistic diffeomorphism invariance”; Phys. Lett. **B737** (2014) 369. (**Impact factor 6.131**)
4. “The role of potential in the ghost-condensate dark energy model”; By Gour Bhattacharya, **Pradip Mukherjee**, Amit Singha Roy, Anirban Saha. Eur. Phys.J. **C75** (2015) 2, 84. (**Impact factor 5.084**)
5. **Pradip Mukherjee**, Biswajit Paul, "Gauge invariances of higher derivative Maxwell-Chern-Simons field theory – a new Hamiltonian approach"; Phys.Rev. **D85**(2012)045028. (**Impact factor 4.643**)
6. Rabin Banerjee, **Pradip Mukherjee**, Biswajit Paul, "Gauge symmetry and W-algebra in higher derivative systems"; JHEP **110** 8 (2011) 085. (**Impact factor 6.111**)
7. **Pradip Mukherjee**, "Poincare gauge theory from higher derivative matter lagrangean"; Class.Quant.Grav. **27** (2010) 215008. (**Impact factor 3.168**)
8. Rabin Banerjee, Sunandan Gangopadhyay, **Pradip Mukherjee**, Debraj Roy, "Symmetries of topological gravity with torsion in the Hamiltonian and lagrangian formalisms"; JHEP **02** (2010) 075. (**Impact factor 6.111**)

Name of the faculty: Dr. Sankar Mandal

List of Publications:

1. Dhriti Ranjan Saha, Anindya Datta, **Sankar Mandal**, Manabendra Mukherjee, Arun Kumar Nandi, Dipankar Chakravorty, “Nano glass in lithia–silica system grown within pores of pellets comprising CuO nanoparticles”; Solid State Ionics **186** (2011) 14. (**Impact factor 2.561**)
2. **Sankar Mandal**, “Walking in the Kingdom of Atoms.” Aureole. Vol-5 (1) (2014) pp-9.
3. **Sankar Mandal**, “The story of lithium ion batteries.” Aureole. Vol-4 (2013) pp-42.

Books Published:

Sankar Mandal, “An introduction to physical optics.” Teachers Book Agency, Kolkata, 2011

Name of the faculty: Dr. Somnath Bhattacharya**Seminar/workshop attended**

1. Workshop on BDP meth, at NSOU (20th March, 2012).
2. Recent Trends in Stat. Mech., Viv. Univ. Berurh. 15th Sept, 2012.

Publication

1. **Somnath Bhattacharya** “Bernoulli's Principle: Its manufactured improvisations”: Aureole. 2015

Name of the faculty: Dr. Dhananjoy Roy**Publications**

A.Gorai and D. **Roy**, “A review on diffusion and interfacial reactions in bimetallic thin film couples” Defect and Diffusion Forum Vol. 344 (2013) 107.

Name of the faculty: Dr. Mina Mazumdar**List of Publications:**

1. S. Bhattacharyya, **Mina Mazumdar**, J. Chakrabarti, and F.H.M. Faisal, ”Spin dynamics in nonsequential two-photon double ionization of helium in an intense laser field”; Phys.Rev.A**83**,043407(2011). (**Impact factor 2.808**)

Name of the faculty: Dr. Srijit Bhattacharya**List of Publications:**

1. **Srijit Bhattacharya in B Dey, et al.** “Experimental investigation on the temperature dependence of the nuclear level density parameter.” Physical Review C 91 (4), 044326 (2015) (**Impact factor 3.733**).
2. **Srijit Bhattacharya**, Deepak Pandit, Balaram Dey, et al. “Examination of level density prescriptions for the interpretation of high-energy gamma -ray spectra.” Physical Review C90, 054319 (2014). (**Impact factor 3.733**)
3. **Srijit Bhattacharya in B Dey, et al.** “Probing the critical behavior in the evolution of GDR width at very low temperatures in A~ 100 mass region.”, Physics Letters B731, 92 (2014). (**Impact factor 6.131**)

4. **Srijit Bhattacharya** “The study of chaos theory using simple non-linear circuits.” Aureole: An Academic Journal (ISSN 0976-9625) 5, (2014), 20-27.
5. D Pandit, **Srijit Bhattacharya et al.** “Giant dipole resonance width and the universality of a fluctuation model including critical temperature”, Physical Review C 88 (5), 054327 (2013). **(Impact factor 3.733)**
6. **Srijit Bhattacharya** in B Singh et al. “Nuclear data sheets for A=215” Nuclear Data Sheets 114, 2023 (2013). **(Impact factor 4.571)**
7. **Srijit Bhattacharya** in Deepak Pandit, et al. “Giant dipole resonance width as a probe for nuclear deformation at finite excitation”, Physical Review C 87 (4), 044325 (2013). **(Impact factor 3.733)**
8. **Srijit Bhattacharya** in B Dey, et al. “Neutron response of the LAMBDA spectrometer and neutron interaction length in BaF₂”, Nuclear Instruments and Methods in Physics Research Section A 727, 7 (2013). **(Impact factor 1.216)**
9. **Srijit Bhattacharya** “Chaos: Indeterminable Future Ahead of a Deterministic Past.”, Aureole: An Academic Journal (ISSN 0976-9625) 4, (2013), 63-69.
10. **Srijit Bhattacharya** in H Pai et al. “Onset of deformation at N=112 in Bi Nuclei”, Physical Review C 85, 064317 (2012). **(Impact factor 3.733)**
11. **Srijit Bhattacharya** in D. R. Chakraborty et al., “Exclusive giant dipole resonance measurement on the Jacobi Transition in ¹⁹F+²⁷Al system”, Physical Review C 85, 044619 (2012). **(Impact factor 3.733)**
12. **Srijit Bhattacharya** in S Mukhopadhyay et al. “Measurement of GDR width at low temperature: a new experimental perspective”, Physics Letters B 709, 9 (2012). **(Impact factor 6.131)**
13. **Srijit Bhattacharya** in Deepak Pandit et al. “Coherent bremsstrahlung and GDR width from ²⁵²Cf cold fission”, Physics Letters B 690, 473 (2010). **(Impact factor 6.131)**
14. **Srijit Bhattacharya** in S Nath et al. “The correlation of meteorological parameters with grasshopper population in Darjeeling”, Journal of Asia Pacific Entomology, Vol-13, (2010) 375. **(Impact factor 0.946)**
15. **Srijit Bhattacharya** in Deepak Pandit et al. “Extreme Nuclear shapes examined via giant dipole resonance line shapes in hot light mass systems”. Physical Review C (Rapid) 81, 061302, 2010. **(Impact factor 3.733)**

16. Srijit Bhattacharya in Deepak Pandit et al, "A realistic technique for selection of angular momenta." Nuclear Instrumentation & Methods in Physics Research A624 (2010) 148. (**Impact factor 1.216**)

Publication of book chapter

Srijit Bhattacharya in Alok Kumar De et al. "Status of drinking water quality in Raniganj Coalfield Area of West Bengal in India", 2013 Climate Change Effects on Agriculture and Economy, Ed. D. R. Khanna, A. K. Chopra, Vikas Singh, Rakesh Bhutiani and Gagan Matta, Published by BIOTECH BOOKS, NEW DELHI, pp.113-134.

Seminar/workshop attended

1. Outreach programme in Nucleosynthesis organized by Saha Institute of Nuclear Physics Kolkata in 2010.
2. West Bengal State Science Congress in 2010 held at Kolkata.
3. Workshop on "Nuclear structure & decay data" held at VECC, Kolkata in 2012.

Name of the faculty: Dr. Jyotirmoy Maiti

List of Publications:

1. Abhishek Chowdhury, A. Harindranath, **Jyotirmoy Maiti**, "Correlation and localization properties of topological charge density and the pseudoscalar glueball mass in SU(3) lattice Yang-Mills theory"; Phys. Rev. **D91** (2015) 074507. (**Impact factor 4.643**)
2. Abhishek Chowdhury, A. Harindranath, **Jyotirmoy Maiti**, "Open Boundary Condition, Wilson Flow and the Scalar Glueball Mass"; JHEP **06** (2014) 067. (**Impact factor 6.111**)
3. Abhishek Chowdhury, A. Harindranath, **Jyotirmoy Maiti**, Pushan Majumdar, "Topological susceptibility in lattice Yang-Mills theory with open boundary condition"; JHEP **02** (2014) 045. (**Impact factor 6.111**)
4. Abhishek Chowdhury, A. Harindranath, **Jyotirmoy Maiti**, Santanu Mondal, "Many avatars of the Wilson fermion: A perturbative analysis"; JHEP **02** (2013) 037. (**Impact factor 6.111**)
5. Saumen Datta, Sourendu Gupta, M. Padmanath, **Jyotirmoy Maiti**, Nilmani Mathur, "Nucleons near the QCD deconfinement transition"; JHEP **02** (2013) 145. (**Impact factor 6.111**)
6. Abhishek Chowdhury, Asit K. De, Sangita De Sarkar, A. Harindranath, **Jyotirmoy Maiti**, Santanu Mondal, Anwesha Sarkar, "Pion and nucleon in two flavor QCD with unimproved Wilson fermions"; Nucl. Phys. **B871** (2013) 82. (**Impact factor 3.929**)

7. Abhishek Chowdhury, Asit K. De, Sangita De Sarkar, A. Harindranath, **Jyotirmoy Maiti**, Santanu Mondal, Anwesa Sarkar, “Exploring autocorrelations in two-flavour Wilson Lattice QCD using DD-HMC algorithm”; Comput.Phys.Commun.**184** (2013) 1439.(**Impact factor 3.112**)
8. Abhishek Chowdhury, Asit K. De ,A. Harindranath, **Jyotirmoy Maiti**, Santanu Mondal, “Topological charge density correlator in Lattice QCD with two flavours of unimproved Wilson fermions”;JHEP **11** (2012) 029. (**Impact factor 6.111**)
9. Abhishek Chowdhury,Asit K. De, Sangita De Sarkar, A. Harindranath,Santanu Mondal, Anwesa Sarkar, **Jyotirmoy Maiti**, “Topological susceptibility in Lattice QCD with unimproved Wilson fermions”; Phys. Lett. **B707** (2012) 228. (**Impact factor 6.131**)

Name of the faculty: Dr. Amit Singha Roy

List of Publications:

“The role of potential in the ghost-condensate darkenergy model” By Gour Bhattacharya, Pradip Mukherjee, **Amit Singha Roy**, Anirban Saha. Eur. Phys. J. **C75** (2015) 2, 84. (**Impact factor 5.084**)

Name of the faculty: Dr. Sutapa Ghosh

Publications:

1. On the Crustal Matter of Magnetars, Nanadini Nag, Sutapa Ghosh, Somenath Chakrabarty, Euro. Phys. Journal A 45, (2010) 99. (**Impact factor 2.736**)

Name of the guest faculty: Dr. Debopriyo Syam, (Retired from this department in 2013)

List of Publications:

1. Sayan Biswas, J. N. De, Partha S. Joarder, Sibaji Raha, **Debapriyo Syam**,” Multifragmentation model for astrophysical strangelets”;Physics Letters B715 (2012) 30. (**Impact factor 6.131**)
2. D. Bhowmik, S. Dey, A. Maulik, S. Raha, S. Saha,S. K. Saha and **D. Syam**,”Characterization and calibration of a SSNTD for heavyion detection and strangelet search in cosmic rays”;Nucl. Instr.and Meth.B 269 (2011)197. (**Impact factor 1.226**)

3. S. Dey, D. Gupta, A. Maulik, S. Raha, S. K. Saha, **D. Syam**, J. Pakarinen, D.Voulot and F.Wenander,” Calibration of a solid state nuclear track detector (SSNTD) with high detection threshold to search for rare events in cosmic rays”; Astropart.Phys.34(2011)805. (**Impact factor 3.584**)
4. **Debapriyo Syam** and Arup Roy ,” Quantum-Classical Connection for Hydrogen Atom-like Systems”; European Journal of Physics Education, Vol.2 No.2(2011) 60
5. Arup Roy and **Debapriyo Syam**, ”Eastward deflection of a particle dropped from a height – Description from the inertial frame of reference”; Physics Teacher, Vol.52 Nos. 3 & 4(2011)

Guidence of students' projects

Project work details of PG Sem IV Students of M.Sc. (Physics)

Department	Year	Name of Student	Title of project	Supervising Faculty
Physics	2014	Rahul Ghosh	Probing Atoms by Scanning Tunnelling Microscope	Sankar Mandal
Physics	2015	Alamgir	Preparation and study of the nano materials	Sankar Mandal
Physics	2014	Reet Chanda	Action Principles: the role of the boundary terms	Pradip Mukherjee
Physics	2015	Souvik Das	The Mysterious behaviours of the Abraham Lorentz equation	Pradip Mukherjee
Physics	2015	Soumik Aon (West Bengal State University)	Dynamical system analysis of the quintessence dark energy model	Pradip Mukherjee
Physics	2015	Joni Islam (West Bengal State University)	Dynamical system analysis of ghost condensate dark energy model revisited	Pradip Mukherjee
Physics	2014	Jaynta Bhattacharya	Relativistic particle model revisited	Pradip Mukherjee
Physics	2015	Koushik Jana	Unity in different formulations of Quantum Mechanics: A Study taking the simple harmonic oscillator as an example.	Pradip Mukherjee
Physics	2015	Atanu Kabiraj	Chaos in electronic circuit	Dr. Srijit Bhattacharya
Physi	2014	Putul Kundu	Chaos in diode	Dr. Srijit Bhattacharya
Physics	2015	Sandipan Majumder	Investigation of the origin of sound from bubble rupture in boiling water	Dr. Srijit Bhattacharya

Physics	2013	Sougata Basu	Study of input frequency and amplitude dependence of the chaotic behaviour of a nonlinear circuit exhibiting Duffing-Holmes differential equation and measurement of Feignbaum Constant in Duffing nonlinear equation	Dr. Srijit Bhattacharya
Physics	2013	Debdyuti Halder	Study of input frequency and amplitude dependence of the chaotic behaviour of a nonlinear circuit exhibiting Duffing-Holmes differential equation & Study of simplest R-L-D circuit to exhibit chaos in lab and measurement of Feignbaum Constant in Duffing nonlinear equation	Dr. Srijit Bhattacharya
Physics	2014	Shilpi Bag	Superconductivity & Its switching application	Dr. Dhananjoy Roy
Physics	2014	Sayani Majumdar	Superconductivity & Levitation	Dr. Dhananjoy Roy
Physics	2015	Bijan Haldar	Solar Cell: Management of Power and Pollution	Dr. Dhananjoy Roy
Physics	2013	Abu Sufian Mondal(APC College)	Enthalpy: Importance in Relativistic Thermodynamics	Dr. Somnath Bhattacharya
Physics	2013	Sk. Nasibul Haque(APC College)	Relativistic Statistical Mechanics and Black Body Radiation	Dr. Somnath Bhattacharya
Physics	2014	Sukhendu Jana	A Numerical Study on Oscillation: Scopes and Difficulties	Dr. Somnath Bhattacharya
Physics	2015	Subhankar Roy	Ingradients of Chaotic System: A nonlinear oscillation approach	Dr. Somnath Bhattacharya
Physics	2015	Santu Dey	A Study of mathematical models: Route to Chaos	Dr. Somnath Bhattacharya
Physics	2015	Didanta Chakraborty	A Study Of Realistic Projectile Motions	Dr. Somnath Bhattacharya
Physics	2014	Masadul Islam	Qualitative study of perfect fluid FLRW models with cosmological constan	Amit Singha Roy
Physics	2015	Sourav Das	Dynamical system approach to study quintessence model of dark energy	Amit Singha Roy

10. DEPARTMENT OF PHILOSOPHY

Name of the faculty: Mrs. Arpita Neogi Sengupta

Seminar attended

- One-day Workshop on “Aristotle’s Ethics” organized by Department of Philosophy, University of Calcutta on 22nd February, 2010.
- National-level seminar on ‘Development of Logic: Indian and Western’ organized by Ramkrishna Mission Vidyamandir on 1st and 2nd February, 2011,
- Organising Secretary, National level seminar on “Visibility /Invisibility: An Enquiry into the conditions of Women in India” on 21st and 22nd February.
- ICPR-sponsored State-level seminar on “Knowledge and Truth” organized by the Department of Philosophy, West Bengal State University on 19th November, 2013.
- National level seminar on Language, Communication and Society on 19th December, 2014 organized by West Bengal State University in collaboration with ICPR.
- National level seminar on “Dalit Epistemology and Feminism” organized by Jadavpur University in collaboration with ICPR on 26th February, 2015.

Publications

1. ‘Exploring the Ethical Context of Medical Science through an Enquiry into Caraka and Sushruta Samhita’ published in Wandering on Women, work, Well-being and War, September 2013. ISBN-978-81-928246-0-4.

Name of the faculty: Mr. Mrinal Kanti Sarkar

Seminar/Workshop attended/Paper presentation

1. Attended a seminar on Women empowerment in 2010.
2. Attended a National Seminar on Inclusive Education: Challenges Ahead In Higher Education in 2010.

3. Attended a Seminar on “The Scientific and Technical Literature in Sanskrit: The Art and Entertainment within it” in 2014.
4. Attended a National seminar on Challenges Of Public-Funded Higher Education in India in 2013.
5. Presented a paper on “surrogate motherhood: empowerment or exploitation” in a national-level seminar organized by Sammilani Mahavidyalaya in 2012.
6. Participated in a workshop on Three years UG syllabus- revision organized by West Bengal State University in 2011.
7. Participated in Training programme on “Environmental Education and sustainable development” organized by Rajib Gandhi National Institute of Youth Development, 2011.

Publication of Books and Articles

1. Uchchya madhyamik Darsana-XI, the Calcutta Publishers-vide T.B.No. WBCHSE/GG561E12/2013.
2. Uchchya madhyamik Darsana-XII, the Calcutta Publishers-vide T.B.No. WBCHSE/GG4518/XII13/2015.
3. Rasa: The Aesthetic pleasure in Sanskrit Journal –Sammilani college-‘the scientific & technical literature in sanskrit’, ISBN No: 978-81-928589-0-6.
4. Article ‘Euthanasia and MTP-two sides of the same coin’ in Aureole, Barasat Government College, 2015, ISSN-0976-9625.

Name of the faculty: Dr. Madhumita Chatterjee

Seminar Attended/Paper Presented

1. Attended a National-level seminar on “Woman and literature: Different Faces, Different Voices” organized by Barasat Govt. college, 16th and 17th January, 2012.
2. Attended a State-level seminar on “Metaphysics: Multidimensional Philosophical Approach” on 6th March, 2013.
3. National level seminar on “Dalit Epistemology and Feminism” organized by Jadavpur University in collaboration with ICPR on 26th February, 2015.

4. Presented a paper “The search for the Supreme Being: on the light of Gita” in the state-level seminar organized by the Department of Philosophy, SushilKarCollege in February, 2012.
5. Presented a paper titled ‘Indian conception of purusharthas-It’s different dimensions’, in the **International Conference on Values Embedded on Indian Philosophy**; organized by the Department of Philosophy and Religion, Benaras Hindu University and The Council for Research in Value and Philosophy, Washington D.C and sponsored by ICPR on 10.12.2013.

List of Publications:

1. A paper titled ‘A Moral Understanding of Major Bio-Ethical Issues from the perspective of Hindu Philosophy’ published in the Journal of Anthropological Survey of India, Vol. 62, No.2, July-December, 2013.
2. ‘Man and nature relationship from the perspective of Traditional Hindu Wisdom’ in Aureole, Barasat Government College, 2015. ISSN-0976-9625.

Name of the faculty: Mrs. Debashree Dutta

Seminar Attended

1. Attended a National-level seminar on “Woman and literature: Different Faces, Different Voices” organized by Barasat Govt. college, 16th and 17th January, 2012.
2. A special lecture on Buddhist Theory of No-self by Mark Siderits organized by Department of Philosophy, Jadavpur University, 23rd November, 2013.
3. Attended ICPR Sponsored Seminar on “Knowledge and Truth” on 19th November, 2013.

Publication

1. A paper titled ‘Mind as viewed in Peircian Philosophy’ in Aureole, Barasat Government College, 2015. ISSN-0976-9625.

11. DEPARTMENT OF POLITICAL SCIENCE

Name of the faculty: Mr. Ranjan Kumar Ray

Publication of Books

1. “Administration, Society and Politics in Medieval India (1206-1707)”. Edited Book; ISBN No. 13-978-81-928246-0-4. Date of Publication January, 2010. Reviewed in Asiatic Society’s International Journal in the year 2010.
2. “RabindranatherSamaj O Rashtrabhavna”. Edited Book, ISBN No. 978-93-80761-28-2. Date of Publication February, 2013.
3. “MaulanaAbulKalam Azad: Philosophy, Education and Governance”. Edited Book, ISBN No. 13-978-81-928246-0-4. Published in 2014.

List of Publication of Articles:

1. Subhash Chandra Bose: A pilgrim of *Revolution*, in *Religion, Dharma and Polity, Essays in memory of D. B. Mathur*; Rakesh Kumar Jha (ed.), Concept Publishing, New Delhi, 2012.
2. RabindranatherRashtrachintarSamajattvikBhatti, in *RabindranatherSamaj O Rashtrabhavna*; A. K. Basu and R. K. Ray (eds.). Avenell Press, 2013.
3. Acharya PrafullaChandrerSamajchinta, in *Swaranika*, Vol.1, Published from Calcutta, 2013.
4. Concept, Legitimacy and Responsibilities of Kingship in Medieval Indian Administration and Politics, in *Administration, Society and Politics in Medieval India (1206-1707)*, R. K. Ray (ed.), Bera and Company, Kolkata, 2010.
5. Ancient Indian Political Thought: Arthashastra, in *Indian Journal of Political Science*, 2011.
6. Swami Vivekananda: Samajbhavna O Rashtrachinta, in *BiswakoshParishad Journal*, Vol.5 No.2, 2013.
7. Ancient Indian Concept of Benevolent State: Kautilya revisited, in *Indian Journal of Political Science*, 2014.

8. Bankimchandrer Chandrasekhar: EktiBishleshandharmiCharitra in *BiswakoshParishad Journal*(forthcoming issue, 2015).

Seminars/Conferences Attended

1. UGC-sponsored National Seminar on Indian Administration and Politics, organized by Dept. of Political Science and Islamic History, Maulana Azad College, in 2010.
2. UGC-sponsored National Seminar on Gender Studies, organized by Dept. of Political Science, History and Philosophy, Maulana Azad College, in 2011.
3. UGC-sponsored National Seminar on Marginal Voices in Indian History, organized by Asiatic Society, Calcutta, in 2012.
4. UGC-sponsored National Seminar on State and Society in India, organized by Dept. of Political Science and History, Serampore College, in 2012.
5. UGC-sponsored National Seminar on Maulana Azad: Education and Governance in the Nationalist Democratic Perspective, organized by Dept. of Political Science and Economics, Maulana Azad College, in 2012.
6. All India Political Science Conference 2011, Lucknow, organized by Institute of Public Administration, University of Lucknow.
7. All India Political Science Conference 2013, Hyderabad, organized by University of Hyderabad.
8. All India Sociological Conference 2014, Varanasi, organized by Mahatma Gandhi Kashi Vidyapith.

Name of the faculty: Ms. Sreemoyee Ghosh

Seminar/Conference attended/Paper Presentation

1. Participated in 3rd Annual Conference of the Sociological Association of West Bengal on *West Bengal Today: Profiles in Sociology* on 12th December, 2009.
2. Participated in UGC-sponsored International Seminar on *Globalization, Capitalist Crisis and Inclusive Development: Myths and Reality*, organized by Departments of Economics,

Political Science and Sociology of Lady Brabourne College on 22nd and 23rd December, 2009.

3. Participated in UGC-sponsored National seminar on *Administration & Politics in Medieval India: Concept of Kingship and Responsibilities of Muslim Rulers*, organized by Maulana Azad College on 12th January, 2010.
4. Presented a paper entitled, *Environment and The Right to Life of the People in India* in UGC-sponsored National Seminar on *Industrialization and Environment Protection-Challenges Before the 21st Century*, organized by the Department of Business Administration of Bidhan Chandra College, Asansol on 17th and 18th March, 2010.
5. Presented a paper entitled, *The Politics of Liberalization in India: Role of the State in Organised Industrial Informality in Durgapur* in UGC-sponsored Seminar on *Emerging Issues in the Indian Economy*, organized by the Department of Economics, Rabindra Bharati University on 25th and 26th March, 2010.
6. Participated in UGC-sponsored national seminar on *Visibility/Invisibility: An Enquiry into the Conditions of Women in India*, organized by Maulana Azad College on 21st and 22nd February, 2011.
7. Participated in UGC-sponsored national conference on *Women and Spaces: Engendering and Regendering Identities*, organized by Departments of English, Economics and History of Vidyasagar Evening College in collaboration with Ramakrishna Mission Institute of Culture, Golpark on 29th and 30th August, 2011.
8. Participated in UGC-sponsored national seminar on *The Future of Multiculturalism: A Review of Contemporary Indian and American Literature and Politics*, organized by Women's College, Calcutta in collaboration with ICCR on 29th and 30th August, 2012.
9. Participated in UGC-sponsored national seminar on *Challenges of Public-Funded Higher Education in India*, organized by Institute of Education for Women, Hastings House and West Bengal Government College Teachers' Association on 26th January, 2013.
10. Participated in a national seminar on *Development, Democracy and Non-State Actors* under UGC-DRS Programme, organized by Department of Political Science, University of Calcutta on 8th March, 2013.
11. Presented a paper entitled, *The Neo- Liberal Politics of Social Security Policy for the Informal Workers in Durgpur* in the Eighth Annual International Conference on *Public*

Policy and Management, Infrastructure: Hard and soft, organized by Indian Institute of Management, Bangalore from 12th to 14th August, 2013.

12. Presented a paper entitled, *Class-Gender Interaction in the Issue of Sexual Harassment of Industrial Informal Women Workers of Durgapur* in UGC-sponsored National Seminar on *Questioning Identity: Response of the State and Community in Contemporary India*, organized by Departments of Political Science and Sociology of Barrackpore Rastraguru Surendranath College, Barrackpore in collaboration with The Jadavpur Association of International Relations on 23rd and 24th August, 2013.
13. Presented a paper entitled, *A Probe into Activism of Paschim Banga Ganatantrik Mahila Samity for Informal Women Workers in Durgapur* in XIV National Conference on *Women's Studies- Equality, Pluralism and the State: Perspectives from the Women's Movement*, organized by Indian Association for Women's Studies from 4th to 7th February, 2014.
14. Presented a paper entitled, *'Gendering' Skill and Engendering Gender Discrimination in the Industrial Work of India* in a National Seminar on *Technology, Science & Society: Redefining Global Challenges*, organized by The New Horizons Institute of Technology, Durgapur in association with National Institute of Technology, Durgapur on 12th March, 2015.

List of Publications:

1. "Grow Up GPS: A Glimpse of Own Resource Generation by the Gram Panchayats in West Bengal" in *Communique*, an Academic journal of Durgapur Government College, vol. 3, No.2, and November 2009.
2. "The Politics of Liberalization in India: Role of the State in Organised Industrial Informality in Durgapur" in Prankrishna Pal, Alok K. Bhaumik and Kaushik Gupta (ed) *Emerging Issues in the Indian Economy*, Regal Publications, New Delhi, 2011.
3. "Beyond the Veil of Industrial Informality in India: A preliminary probe into Gender Discrimination" in Nandita Bagchi (ed) *Metaphorical Visibility: An Indian Perspective*, Maulana Azad College and Ekush Satak, Kolkata, 2012.
4. "Antarjatic Rajnititey Anchalik Sanghathan" and (co-authored with Puroshottam Bhattacharya and Anindya Batabyal) "Bharater Bideshniti" in Puroshottam Bhattacharya

and Anindya Jyoti Majumdar (ed) *Antarjatic Samparker Rooprekha*, Second Edition, Setu Prakashani, Kolkata, 2012.

5. “The Neo- Liberal Politics of Social Security Policy for the Informal Workers in Durgpur” in the *Conference Proceedings* of Eighth Annual International Conference on *Public Policy and Management, Infrastructure: Hard and Soft*, published by Centre for Public Policy, Indian Institute of Management, Bangalore, 2013.
6. “A Critique of the Euro-centric Notion of Development” in *Horizon: Defining The Parameters of Political Science*, Annual Academic Journal of the Department of Political Science, Savitri Girls’ College, 2013-2014.
7. “In Favour of Human Rights: A Qualitative Approach to Welfare of the Informal Women Workers of India” in Aparna Bandyopadhyay and Krishna Dasgupta (ed) *The ‘Other’ Universe: An Anthology of Women’s Studies*, Setu Prakashani and Women’s Studies Centre, Lady Brabourne College, Kolkata, 2015.

Name of the faculty: Mr. Kinshuk Nandi

Publication/Newspaper Articles

1. Are labour laws of India leading to growth of contractual labour? Capturing the theoretical debates; in “Aureole – An Academic Journal” (ISSN- 0976-9625), 2014 Vol. 5(No.2).
2. Op-ed Article in Bengali daily Sangbad Pratidin on 9th January, 2015.
3. Op-ed Article in Bengali daily Sangbad Pratidin on 13th March, 2015.

Seminars/Workshops Attended

1. UGC-sponsored State Level Seminar on “Technologies of Revolution: Society, Economy and Polity” on March 4 and 5, 2010, jointly organized by Barasat Government College and Paschim Banga Itihas Samsad.
2. UGC-sponsored National-level seminar on “Women and Literature: Different Faces, Different Voices” on 16th and 17th January, 2012 organized by Barasat Government College in collaboration with School of Women's Studies, Jadavpur University.

3. UGC-CAS 1 National Seminar on Asian Regionalism in the 21st Century, organized by the Department of International Relations, Jadavpur University on 07.02.2012.
4. Workshop for discussion and finalization of set of model questions for the Part-I (new syllabus) Honours and General courses of Political Science, organized by West Bengal State University on 05.05.2012.
5. 15th Annual Conference of West Bengal Political Science Association, held at Lady Brabourne College on 29th-30th March, 2014.
6. State level workshop on Youth Parliament Competition and Quiz Contest for the year 2014-15, conducted by department of Parliamentary Affairs, Government of West Bengal; held on 24.07.2014 at West Bengal Legislative Assembly House.

Name of the faculty: Dr. Gouri Sankar Nag, (Transferred in 2013)

Seminar Attended:

1. Attended one-day National Seminar on the “Socio-political Vision of Tagore and its Contemporary Relevance”, held at Jadavpur University on 21st February, 2011.
2. Attended UGC-sponsored State level Seminar on “Technologies of Revolution: Society, Economy and Polity”, held at Barasat Government College on 4th and 5th March 2010.

List of Publications:

Journals:

1. *South Asia Politics*, Vol. 10 No. 3, July 2011. 'Looking back at the 26/11 attack on Mumbai' jointly written. Pg. 16-21. (RNI **DELENG/ 2002/6815**)
2. *Review Subcontinent*, ISSN 2229-614X, Vol. X, June 2012, *Human Rights Movements in India: Thoughts to share*, Pg. 17-24.

Books:

1. *Political Theory*, MA Political Science, Third Semester, PS 301, Bengali Edition, Published by the Directorate of Distance Education, Tripura University, jointly written, 2011. Edition (ISBN **978-81-259-5252-7**)
2. *Political Change: unveiling Liberalism's (un)radical philosophy of revolution*, an article published by Principal, Barasat Govt. College in a compilation of essays entitled *Technologies of Revolution: Society, Economy and Polity*, 2011. Without ISBN

3. *Bharatiya Rajnitite Samprodayikatar Uposthiti* (Jointly written, pg.57-69) and *Bharater Rajnaitik Prekshapate Nari Andolan* (pg.141-149) published in a subject book entitled *Bharatiya Rajniti* (ISBN 978-81-920382-4-7), Ed. by A. Mukhopadhyay and D. Nandi, Publisher: Joy Durga Library, 2011.

Name of the faculty: Mukut Basu, part-time teacher

Publication:

1. “Biggyan manaskota O Vivekananda: Kalottirno Prasangikata” in *Biggyan Bhabnay Swami Vivekananda*, ISBN No.: 978-81-928721-3-1, Rohini Nandan Publisher, January 2014.

Name of the faculty: Channamma Mondal, part-time teacher, (Appointed as Assistant Professor, Bankura University in May 2015)

Seminar Attended:

1. Participated in UGC-UPE II National Seminar on “Post-Liberal Societies: Utopia, Illusion or Reality?”, organised by the School of International Relations and Strategic Studies, Jadavpur University on March 20-21, 2014.
2. Participated in the Student’s Seminar on “India’s Foreign Policy” on 10th September, 2009, organised by The Jadavpur Association of International Relations.

12. DEPARTMENT OF SANSKRIT

Name of the faculty: Dr. Antara Banerjee (Transferred in June, 2015)

Attended Seminar/Conference/ Workshop/Coursework:

1. Rabindranath o samakalinprasanga, BidhannagarGovt College, Feb 9-10, 2012
2. National Seminar in Howrah Sanskrit sahitya samaj, 17.12.2012
3. Technologies of revolution, A state level seminar by BGC, 4-5March, 2010
4. National Seminar on Women and Literature, BGC, Jan-16-17, 2012.
5. National Seminar in Mahadebananda Mahabidyalaya, March21-22, 2013
6. National Seminar on Language, communication and society in WBSU, 19.12.14
7. M.Winternitz in his 150th anniversary in CU, 11.12.2014
8. National seminar on Contribution of Paninian School in the arena of Sanskrit studies, RKMV, Feb17-18, 2011
9. Attended conference in HSSS, 21.1.2012

List of Publications (articles/Books/edited volumes):

1. Chithipotreswamiji, Aksarmala, April 2014
2. Umahaimavatiupakhyan, Aksarmala, Oct. 2013
3. Nahamatanahakanyanaha etc, Seminar proceedings, Hooghly Mohsin College, Aug 2014
4. Atitbilasshrutibilas etc, Kalyan, Nov 2014
5. Anumanpromanathabaaproman, International Journal of integrated research and development, Vol. I, Sept 2014
6. Chaksusergalpa, Anya nari, Dec 2011
7. Sriramakrisna o bishistadvaitabad, Centenary volume, 2012, RKMV and Ramkrisna mission institute of culture, Golpark

Name of the faculty: Mr. Tamonash Chakraborty

Attended Seminar/Conference/ Workshop/Coursework:

1. R.B.U.Indian Intellectual Traditions,on 5th and 6th of February 2015,
2. C.U., reminiscences of MorizWinternitz, 11/12/2014, Vivekananda College.
3. Workshop on Dimensions of Truth on 17, 18, 24,and 25 of August 2013
4. R.B.U, Simile in Sanskrit literature. 21/12/2012.
5. Barasat Govt. College. Technologies of Revolution. 4th and 5th of March 2010.

Publications of articles/Books/edited volumes:

Articles in Ed. Vols. Vaninikvanah. Prabhakaramimamsadarsane Abhavavimarsa 2013.R.B.U.
Journal no 76. Mahanirvanatanantre Smartatattvani. 2014. The Scientific and Technical Literature
in Sanskrit.Tantra: Sahitya Darsana O prayoga.

Name of the faculty: Ms. Poulomi Saha

She has attended the **International Seminar** on ‘characterization of women in Sanskrit Works’ on Feb25-27, 2015 in CU.

Name of the faculty: Mrs Debasree Sadhu (part-time)**Attended following Seminar/Conference/ Workshop/Coursework**

1. National seminar on Paninian school of grammar, RKMV, Feb2011
2. National seminar in Sanskrit sahitya parisad, May 2009
3. Technologies of revolution, a state level seminar by BGC, 4-5 March, 2010
4. National seminar in Satyapriya Roy College of Education, Jan 2010
5. A seminar in Quality council of India, 18.7.2009

List of Publications:

1. Philosophical similies of Kalidasa, in Anviksa, March2014
2. Development of debate in ancient India, Nadyasrote, Aug.2013.
3. Athabrihannala itibritta, Damini, March2014

Name of the faculty: Mr.GourangaAich (part-time)**Seminar/Conference/ Workshop/Coursework attended:**

1. International seminar on architecture and sculpture in ancient India, Jan.7-8, Department of Sanskrit, Jadavpur University.
2. National seminar on Indian Philosophical system, 2.2.10, J.U, Department of Sanskrit
3. Technologies of revolution, A state level seminar by BGC, 4-5 March, 2010.

List of Publications:

1. Hetvabhasa-smiksa, Anviksa, Journal of the department of Sanskrit, J.U, Vol.xxxi. 2010
2. Anumana according to samkhya philosophy Anviksa, Journal of the department of Sanskrit, J.U, Vol.xxxv, 2014.

13. DEPARTMENT OF ZOOLOGY

Name of the faculty: Dr. Madhumita Manna

Papers Presented (International Conferences):

1. In vivo models of infection and treatment with sodium stibogluconate and miltefosine for recent clinical isolates of Indian Kala-azar. **Madhumita Manna**, Supriya Khanra, Anjan Kumar das, Syamal Roy. Oral presentation, ACOP 2014, 2nd Asian congress of protistology & 9th Asian conference on Ciliate Biology, held at Kalyani University on 27-29 November, 2014
2. Invited speaker for 'Third International Conference on Neglected Tropical Diseases (NTD)' on September 1-2, 2012 in Filaria & General Hospital, Zinzira, Savar, Dhaka, Bangladesh organized by Institute of Allergy and Clinical Immunology of Bangladesh (IACIB).
3. Immunotherapeutic effect of radio-attenuated leishmania parasite against experimental murine visceral leishmaniasis. Sanchita Datta, Moumita Ghosh, Supriya Khanra, Radhaballav Bhar, Anindita Chakraborty, Syamal Roy and **Madhumita Manna**. Proceeding of 2nd International conference on Perspective in Cell signaling and Molecular Medicine held at Bose Institute, Kolkata, India , 8-11 January, 2012
4. Immunotherapeutic Role of Radio Attenuated Leishmania Parasites in Experimental Murine Leishmaniasis. Datta S, Naskar K, Chakraborty A, **Manna M**. Proceeding of 12th International Congress on Parasitology, held at Melbourne, August 15-20, 2010.

Papers Presented (National Conferences):

1. Molecular Epidemiology of Indian Kala-azar. 16th All India Cytology and genetics Conference held at University of Kerala, Trivandrum, 22-24 October, 2013[Invited speaker]
2. Supriya Khanra, Rupkatha Mukherjee, Syamal Roy, Madhumita Manna. 16th All India Cytology and genetics Conference held at University of Kerala, Trivandrum, 22-24 October, 2013
3. Sangita Lahiry, Supriya Khanra, Rajiv Srivastava, Shyam Sundar, Ajoy Rathore, Anindita Chakraborty, M. Sudarshan, Madhumita Manna. Manipur workshop paper, March 2013
4. Restriction Fragment Length Polymorphism Analysis of the Amplicons of ITS and ITS-1 of the ribosomal operons of the causal agents of Kala-azar. Supriya Khanra, Subir K Badhopadhyay and **Madhumita Manna**. DST sponsored Sir J.C. Bose Memorial National Symposium on Modern Trends in Animal Science Research and Challenges of the Day held at Presidency University on March 23-25, 2011
5. Role of radio attenuated parasites as immunoprophylaxis against experimental murine visceral Leishmaniasis. **Madhumita Manna**. National Workshop organized by UGC DAE and Visva Bharati. March 29-31, 2010

International workshop attended:

1. International Training in Global Infectious Diseases (GID), a US-India Joint Research Programme Workshop on Advanced Technologies and Research Proposal Development held at Jawaharlal Nehru University, New Delhi from 31st January to 5th February, 2011.

List of Publications:

1. Therapy with radio-attenuated vaccine in experimental murine visceral leishmaniasis showed enhanced T cell and iNOS levels, suppressed TGF- β production with higher expression of some signaling molecules. Sanchita data, Syamal Roy and **Madhumita Manna**. **Brazilian Journal of Infectious Diseases (Elsevier)**, 2015. (Impact factor 1.096).
2. Evaluation of S.C. route of immunization by homologous radio attenuated live vaccine in experimental murine visceral leishmaniasis. Sanchita data, Syamal Roy, Anindita Chakraborty and **Madhumita Manna**. **Journal of Parasitic Diseases (Springer)**, 2014. DOI: 10.1007/s12639-014-0522-7.
3. Correlation of Obesity and the Novel Adipocytokines, Leptin and Adiponectin with Insulin Resistance in Type- 2 Diabetes Mellitus. Piyali Das, Subir Kumar Bandyopadhyay, Subhradev Biswas, Gorachand Bhattacharya, **Madhumita Manna**. **Bangladesh Journal of Physiology and Pharmacology**, 2014; 30 (1):29-32.
4. Cytokine Release Analyses of SSG Resistant Recent Clinical Isolate of Kala-azar Identified As *Leishmaniatropica*. Supriya Khanra, Anjan Kumar Das, Rupkatha Mukhopadhyay, Syamal Roy and **Madhumita Manna**. **Perspective in Cytology and Genetics**. 2013
5. Molecular Epidemiology of Indian Kala-azar. **Madhumita Manna**. **Perspective in Cytology and Genetics**. 2013.
6. Further Characterization of Recent Clinical Isolates of Indian Kala-azar. Supriya Khanra, Anjan Kumar Das, Suresh Kumar and **Madhumita Manna**. **Proceedings of the National Conference of Challenges in Biodiversity Conservation and Resource Management**, February, 2013.
7. RFLPs of ITS, ITS-1, hsp70 and sequencing of ITS-1 of some recent clinical isolates from kala-azar patients of India and Bangladesh revealed heterogeneity in parasite population structures. Supriya Khanra, Sanchita Dutta, Dinesh Mondal, Partha Saha, Subir Kumar Bandyopadhyay, Syamal Roy and **Madhumita Manna**. **Acta Tropica (Elsevier)**, 2012, 124 (3), 229-234 [Impact factor 2.787]
8. Therapeutic Immunization with radio attenuated leishmania parasites through i.m route revealed protection against the experimental murine visceral leishmaniasis. Sanchita Datta, **Madhumita Manna**, Supriya Khanra, Moumita Ghosh, Radhaballav Bhar, Anindita Chakraborty, Syamal Roy. **Parasitology Research (Springer)**, 2012, Jul. 111(1), 361-369. [Impact factor 2.852]
9. Radioattenuated leishmania parasites as immunoprophylactic agent against Indian visceral leishmaniasis. Sanchita Datta, Rupchand Adak, Priyanka Chakraborty, Arun Halder, Surajit Bhattacharya, Anindita Chakraborty, Syamal Roy and **Madhumita Manna**. **Experimental Parasitology (Elsevier)**, 2012, Jan 130 (1), 39-47 [Impact factor 2.154]
10. Analysis of Lactate Dehydrogenase and Malate Dehydrogenase enzyme profiles of some Indian major carps of East Calcutta Wetland by Cellulose Acetate

- Electrophoresis. **Madhumita Manna** and Priyanka Chakraborty. **Journal of Environmental Biology**, 33 (4), **2012**. [ISSN no. 0254-8704] [**Impact factor 0.68**]
11. Characterization of the recent clinical isolates of Indian Kala-Azar patients by RAPD-PCR method. SupriyaKhanra, Subir K Bandopadhyay, Priyanka Chakraborty, SanchitaDatta, Dinesh Mondal, Mitali Chatterjee, KshudiramNaskar, Syamal Roy and **Madhumita Manna**. **Journal of Parasitic Diseases (Springer)**, **2011**, 35, 116-122.
 12. Molecular tools for *Leishmaniasp* identification and characterization. SupriyaKhanra and **Madhumita Manna**. **Perspective in Cytology and Genetics**. **2011**, Volume 15, 292-300
 13. RAPD patterns in different species of *Drosophila*. ArpitaRakshit, **Madhumita Manna** and RabindraNath Chatterjee. **Perspective in Cytology and Genetics**. **2011**, Volume 15, 47-54
 14. Immunotherapeutic Role of Radio Attenuated Leishmania Parasites in Experimental Murine Leishmaniasis. Datta S, Naskar K, Chakraborty A, **Manna M**. **Medimond International Proceedings** [Thomson Reuters], ICOPA XII, **2010**.
 15. Identifying causal agents of Indian Kala-azar: a pilot study. **M. Manna**, S. Khanra, S. Bandopadhyay, M. Chatterjee, D. Mondal, S. Roy. **Tropical Medicine and International Health**. **I.3-093**, Vol 16, pp 194-195, Publisher Wiley-Blackwell, NJ, USA, **2011**.
 16. Radiation Induced Effects on Viability and Antioxidant Enzymes of Crustaceans from Different Habitats. D. Mukherjee, **M. Manna**, S. Selveraj, S. Bhattacharyya, S. Homechoudhury, and A. Chakraborty. **Journal of Environmental Biology**, Vol 31, 251-254, **2010**. ISSN no. 0254-8704 [**Impact factor 0.64**]
 17. RAPD PCR and Drug sensitivity of a recent clinical isolate from Indian Kala-Azar patient. Supriya Khanra, Subir K Bandopadhyay, Priyanka Chakraborty, Dona Mitra, Kshudiram Naskar, Syamal Roy and **Madhumita Manna**. **Proceeding of 22nd National Conference on Parasitology**, **2010**, 282-286 [ISBN no. 978-93-5067-220-4]

Convenership / Memebership For International/ National Conference

- a. **CONVENERSHIP:** Acted as Joint Convener in UGC sponsored National Seminar on Stress, Drug Development and Nanotechnology. March 05-06, 2009, organized by Dept. of Botany, Chemistry & Zoology, Bethune College, Kolkata
 - b. **RAPPERTEUR:** 22nd National Congress of Parasitology on Advances in Parasitology. October 30-November 1, 2010
 - c. **MEMBER:** Organising Committee, International Conference on '100 years of Antimonials' to be held on November, 2012 at Indian Institute of Chemical Biology, Kolkata
- **Submitted many ITS-1 sequences of rDNA gene in NCBI, NIH, USA namely:**

GEN BANK SUBMISSION AND ACCESSION:

JQ229828 [submitted in NCBI, ITS-1 sequence of one clinical isolate of Kala-azar, T5 which is *Leishmania tropica*], **JQ517279** [ITS-1 sequence of K27, WHO reference strain for *L. tropica*]

BankIt1661472 T-019 KF673344, BankIt1661472 T-084 KF673345,
 BankIt1651025 T2 KF500031, BankIt1652921 T3 KF525783,
 BankIt1654294 T4 KF543268, BankIt1654294 T7 KF543269
 BankIt1654294 P1 KF543270 and 5 more

RECENT ACHIEVEMENTS:

- Our work on molecular typing of clinical isolates of Indian Kala-azar has been awarded second best poster prize in 15th All India Congress on Cytology & Genetics.

Chapters in Book: 4 chapters in subject book of PG course in Netaji Subhas Open University.

Name of the faculty: Dr. Debajyoti Chakrabarty

Papers Presented at Conference/ Seminar:

1. UGC Sponsored State Level Seminar on Environmental Degradation and Strategies for Conservation and Management, Krishnanagar Govt. College 24-25 Nov 2011.
2. Third National Symposium on Earthworm Ecology and Environment Nov 9-11 2012, Tripura.
3. National Seminar on Interrelationship between Flora, Fauna and Human biodiversity, Kolkata Sept 29-30 2013.
4. UGC-DEB Sponsored National Seminar on Understanding Hazards and their Mitigation Options. 28-29 March 2014.

List of Publications:

1. D. Chakrabarty and MP Bag. Nutritive potential of earthworm (*Eiseniafoetida*) meal on growth and fatty acid profile of Nile tilapia (*Oreochromisniloticus*). 2014. Biology and Ecology of Tropical Earthworms 1st edn DPH Publication, New Delhi pp 172-182.
2. D. Chakrabarty and MP Bag 2013. Growth performance and flesh fatty acid profile of Nile tilapia (*Oreochromisniloticus*) fed with two leguminous plant leaf meals. E J Biovol 9(4) 84-91.
3. D. Chakrabarty and S.K.Das, 2012. Carp pond fertilization Chapter 16 in Aquaculture pond fertilization 1st edn. Wiley Blackwell pp235-244
4. D. Chakrabarty and S.K.Das, 2012. Dissolution of phosphorus from rock phosphate using earthworms Dynamik Soil and Dynamik Plant .GSB, Japan 6(*SII*) 131-133
5. H.Pal and D. Chkrabarty 2012. Evaluation of growth performance of stinging catfish (*Heteropneustesfossilis*) using low cost fish feed. Environment and Ecology 30(4) 1229-1234.
6. H.Pal and D.Chakrabarty.2012. Evaluation of body composition and growth performance by applying different dietary vitamin C levels in stinging cat fish *Heteropneustesfossilis* (Bloch, 1792) IJPBS. 2(3) 193-200.
7. "Nutrient Availability in Fertilized Tropical Ponds", **D. Chakraborty** and S. K. Das, *Conscientia* [ISSN: 2278-6554], 2011, 1 (1), 22-41.
8. Assessment of vermicompost as direct application manure in fish farming ponds, **D. Chakraborty**, S.K Das M.K.Das and M P Bag ,*Turkey's Journal of Fisheries and Aquatic Sciences* [ISSN: 1303-2712], 2010, Vol. 10 pp 47-52.
9. Relative abundance of biotic communities of plankton and zoobenthos of Eastern India, **D. Chakraborty**, P.Biswas and S.K. Das. *Chinese Journal of Oceanology and Limnology* [ISSN: 0254-4059], 2010, Vol 28 No.4 pp 1-7. [IF 1.392]

10. “Low Cost fish feed for aquarium fish: a test case using *Colisafasciata*”, **D. Chakraborty**, S.K Das M.K.Das and M P Bag *Spanish Journal of Agricultural Research* [ISSN: 1695-971-X], 2010, Vol No. 8(2) pp 312-316. [IF: 0.41 OCLC 52701399]

Name of the faculty: Dr. Tuhin Kumar Saha

Papers Presented at Conference/ Seminar:

1. UGC Sponsored National Seminar on “Rediscovering 100 Years of Journey on the Field of Immunology: Present Status of Immunological Research in India”, organized by the PG Department of Zoology, Barasat Government College and West Bengal State University; September 19th-20th, 2011

Workshop attended:

1. Attended and participated in workshop on “Orientation and training in Ecological studies and Documentation of Biodiversity” organized by West Bengal State University in November, 2011.

Name of the faculty: Dr. SanjoyPodder

Paper Presented (National Conference):

1. Immediate hypersensitivity to house dust and house dust mites among kolkata population, India. Barasat Govt. College (2011)
2. Studies on the house dust mites of Kolkata and adjoining areas in relation to nasobronchial allergic disorders. West Bengal Biodiversity Board. (2014).

Paper Presented (International Conference):

1. Diversity of house dust mites in relation to nasobronchial allergic disorders among Kolkata population, India. International Conference on Environment and Ecology, 2nd to 4th March, 2015. (Oral presentation)

List of Publications:

1. Sanjoy Podder, Salil Kumar Gupta and Goutam Kumar Saha (2010). Incrimination of *Blomia tropicalis* as a potent allergen in house dust and its role in allergic asthma in Kolkata Metropolis, India. *Journal of World Allergy Organisation* (Volteris Kluwer Publication) May: 182-187.
2. Sanjoy Podder, Salil Kumar Gupta and Goutam Kumar Saha (2010). House dust mites in relation to different habitat conditions in Kolkata Metropolis, India. *Acarina* (Russia), 18(1): 91-95.

3. Sanjoy Podder, Himani. Biswas, Goutam Kumar Saha and Salil Kumar Gupta (2014). Life cycle of *Oligonychus coffeae* (Acari: Tetranychidae) on tea leaves in Darjeeling, West Bengal, India. *Animal Biology*, **64**: 395-400.
4. Sanjay Podder, Shampa Dutta, Amlan Ghosh and Goutam Kumar Saha (2014). Fruits and vegetables sensitivity among Kolkata population, India. Accepted. in Journal Aureole.

Name of the faculty: Dr. Tanaya De

Paper Presented at Conference/ Seminar:

1. National Seminar on “ Understanding Hazards and their Mitigation Options” organized by Netaji Subhas Open University, in the topic “Solid Waste and Visual Pollution: Its Effect on Civics of Society” March 28-29, 2014 (presented work)
2. National Seminar on “Molecular Aspects of Human Diseases” organized by Department of Zoology, University of Calcutta, in the topic “ A compound showing preliminary preventive effect on osteoclast maturation indicating a potential for management of osteoporosis” January 31, 2015 (presented work)
3. “Fifth International Conference on Plants and Environmental Pollution”, organized by International Society of Environmental Botanists & CSIR-National Botanical Research Institute, in the topic “Visual Pollution in an Urban and Suburban set up with Special Reference to Cables/Wires”, February, 24-27, 2015 (presented work)
4. International Seminar (2nd Global Academic Meeting – GAM 2015) on “Multi-disciplinary Approach towards Globalization, Climatic Change, Disaster Mitigation, Governance and Human Wellbeing” organized by Disaster Research Programme (DRP), Transdisciplinary Research Clusters (TRC), Jawaharlal Nehru University, New Delhi in collaboration with the European Scientific Institute (ESI) in the topic, “Visual Pollution Can Have A Deep Degrading Effect On Urban And Sub-Urban Community: A Study In Few Places Of Bengal, India, With Special Reference To Unorganized Billboards” (presented work)

List of Publication:

1. Milan Kumar Jana and **Tanaya De**, 2nd Global Academic Meeting, GAM 2015, 1-4 April, New Delhi, India, Proceedings. Pg 1-14 (Paper published from Project work in M.Sc)
2. **Tanaya De**, Autoimmunity, the strange predicament: its therapy leads to secondary osteoporosis, Acad. J. Aureole 5 (No-1) 2014, B.G.C. Pg 9-12
3. Milan Kumar Jana and **Tanaya De**, Visual pollution can have a deep degrading effect on urban and suburban Community: a study in few places of Bengal, india, with special reference to unorganized billboards, European Scientific Journal June 2015 /SPECIAL/ edition ISSN: 1857 – 7881 (Print) e - ISSN 1857- 7431. Pg 1-14 (Paper published from Project work in M.Sc)

Workshop attended:

1. 2nd National Workshop for College Teachers on “Application of Flow Cytometry, Cell Sorting & Imaging in Biological Research” organized by CRNN, University of Calcutta and BD Biosciences and University of Calcutta, Kolkata from 18.02.12 to 24.02.12.

Name of the faculty: Dr. Srikanta Guria**Paper Presented at Conference/ Seminar:**

1. UGC sponsored National Seminar on “Cutting Edge Technologies & Frontier Areas of Research in Zoology” organized by Department of Zoology, Ramakrishna Mission Vivekananda Centenary College, Rahara, in collaboration with Department of Zoology, Panihati Mahavidyalaya, on 07 September, 2013
2. UGC sponsored State level seminar on “Biodiversity and Society” Dept. of Zoology. Tamralipta Mahavidyalaya, Purba Medinipur, In collaboration with Gourav Guin Memorial College. Chandrakona Road. Paschim Medinipur on 25 Jan 2012
3. UGC-merged scheme (UGC-SAP & DST-FIST assisted) National Symposium on “Man, Animal And Environment Interaction in The Perspective of Modern Research” organized by Department of Zoology, University of North Bengal on March 08-09, 2013
4. UGC sponsored National Conference on “Emerging Trends and Challenges in Basic and Translational Research in Biochemistry” organized by Biochemistry Thrust Area of Centre of Advanced Study, Department of Zoology, Banaras Hindu University, Varanasi on February 4 – 5, 2013
5. UGC sponsored National Conference on “Biodiversity: Interrelationship between Flora, Fauna and Human” organized by MrinaliniDattaMahavidyapith, Departments of Anthropology, Botany & Zoology in collaboration with Department of Anthropology, West Bengal State University, Barasat on 29th & 30th September, 2013
6. UGC sponsored National Seminar on “Biodiversity and its Management for Food, Livelihood & Environmental security” organized by 24th All India Congress of Zoology & National Helminthological Congress at University of Kalyani on 23rd-25th Nov, 2013
7. National Conference on “Environmental Issues and Food Security in India : Let’s Voice Together Towards a Sustainable Future” organized by Foundation For Science & Environment, Kolkata in association with Scientific & Environmental Research Institute, Kolkata on 10 th august, 2014
8. DBT sponsored National Seminar on “Molecular Aspect Of Human Diseases” organized by Department of Zoology, University of Calcutta on 31st Jan.2015

Workshop attended:

1. Self-financing State-level Workshop on “Industrial Microbiology” organized by SHRM Biotechnologies Pvt. Ltd. Kolkata-700155 with 10 days during from 21 Jan 2012
2. Self-financing State-level Workshop on “Advances application of Recombinant DNA technology” organized by SHRM Biotechnologies Pvt. Ltd. Kolkata-700155 with 10 days during from 14 Jan 2012

List of publications:

1. Chakrabarti, S., Chowdhury, S., Ghosh, S., Guha, M., Ghosh, S., **Guria, S.**, Pattanayak, A. K., and Das, M., (2015). Alteration of menstrual cycle associated with type 2 diabetes mellitus in women of west Bengal. *J. Atoms and Molecules*, 5(2): 872 – 879. Impact factor=0.347
2. **Guria S**, Bose M, Mondal J and Majumder N (2015). Alteration of Cytomorphology of Mice Peritoneal Macrophages, Spleen cell and Histological Analysis of Liver and Pancreas under Eltroxin Induced Condition: A Preliminary study of “Thyroid Diabetes”. *The Global Journal Of Life Science & Research*, 1 (1): 11-18 (Paper published from Project work in M.Sc)
3. Ghosh S, **Guria S**, and DasM (2015). Alcohol as a Risk Factor for Cancer Burden: A Review. *ProcZool Soc.* DOI 10.1007/s12595-014-0134-3
4. Sultana, Z., **Guria, S.**, Das, M (2014). A Systematic Review at the Crossroads of Polymorphisms in Pro inflammatory Cytokine Genes and Gastric Cancer Risk. *J. Atoms and Molecules*, 4(5): 791 – 802. Impact factor=0.347
5. **Guria S**, Ghosh S and DasM (2014). Diabetogenic Action of Alloxan On Liver Histopathology. *the experiment*, 28(2): 1906-1912. Impact factor=0.27
6. **Guria S**, Chakraborty A, Barman K, Datta S, Sarkar S and Das M (2014). Cell Death and DNA Damage in Peritoneal Macrophages of Rat Exposed To Cadmium Chloride. *Proceedings on Biodiversity: Interrelationship between Flora, Fauna and Human*, 144-149.
7. **Guria S**, Bankura B, Chowdhury S and Das M. Thyroid Peroxidase (TPO) Gene Mutation in Patients with Congenital Hypothyroidism (2014).*Proc/Natl/ UGC-Seminar/Zoo*, 32-36.
8. **Guria S**, Bankura B, Balmiki N, Pattanayak AK, Das TK, , Sinha A, Chakrabarti S, Chowdhury S, and Das M (2014). Functional Analysis of Thyroid Peroxidase Gene Mutations Detected in Patients with Thyroid Dysmorphogenesis. *International Journal of Endocrinology*. Article ID 390121. <http://dx.doi.org/10.1155/2014/390121>. Impact factor=2.58(2014), 1.5(2015)
9. Balmiki N, Bankura B, **Guria S**, Das TK, Pattanayak AK, Sinha A, Chakrabarti S, Chowdhury S, and Das M (2014). Genetic analysis of thyroid peroxidase (*TPO*) gene in patients whose hypothyroidism was found in adulthood in West Bengal, India. *Advance Publication doi: 10.1507/endocrj*, EJ13-0237. Impact factor=2.23
10. **Guria S** and kiran P (2013). Present Scenario of Malaria Treatment In Alipurduar-I Block In Jalpaiguri District. *Recent Advance in Animal Science Research*, VI (C): 990-994.
11. **Guria S** and Das M (2013).Methimazole Reduces Endocrine Cell Population in Islets of Langerhans in Rat Pancreas. *Recent Advance in Animal Science Research*, VI (C): 987-989.
12. **Guria S**, Chhetri S, Saha S, Chetri N, Singh G, Saha PB, Sarkar BS, and Das M. (2012) . Study ofcytomorphologyof pancreatic islets and peritoneal macrophage in alloxan induced diabetic rat: a mechanistic insight.*Animal Biology Journal*, 3(3): 101-110.
13. **Guria S**, Balmiki N, Bankura B, Pattanayak A K, Das T, Chakrabarti S, Sinha A., Chowdhury S. Das M (2012). Thyroid peroxidase (tpo) gene mutation in hypothyroid

- females and its association with menstrual disturbances and abortion in the population of West Bengal. *NBU J.Anim.Sc*, 6: 40-47.
14. **Guria S** and Das M (2012). Phagocytosis of Yeast Particles by Peritoneal Macrophage in Normal and Hyperthyroid Rat. *Animal Biology Journal*, 3(1): 51-57.
 15. Balmiki N, **Guria S**, Bankura B, Pattanayak AK, Sinha A, Das TK, Chakrabarti S, Chowdhury S, and Das M (2012). Clinical Spectrum of Hypothyroidism in West Bengal, India. *Animal Biology Journal*, 3(1): 31-37.
 16. **Guria S**, Chhetri S, Saha S, Chetri N, Singh G, Saha PB, Sarkar BS, and Das M (2012). Pulmonary Involvement of Arsenic Poisoning and Effect of Arsenic Toxicity on Peritoneal Macrophages and Spleen Cells in Rat. *Animal Biology Journal*, 3(2): 67-76.
 17. Guha M, Sen P, Ghosh S, Ghosh S, Chaudhuri A, Gupta P, Das S, Mukherjee S, Ghosh R, Roy Chowdhury R, **Guria S** and Das M (2011). Hypothyroidism causes cellular damage retinal tissue and biceps in rat. *Animal Biology Journal*, 2(4): 147-152.
 18. **Guria S** and Das M (2011). Hypothyroidism reduces phagocytic activity of rat macrophage. *Animal Biology Journal*, 2(4): 163-170.
 19. Guria S, Balmiki N, Chakrabarti S and Das M (2011). Methimazole Induced Hypothyroidism Modulates Cytomorphology of Skin Epidermis and Collagen Synthesis in Rat. *Animal Biology Journal*, 2(3): 127-132.
 20. **Guria S**, Balmiki N and Das M (2011). Is hypothyroidism responsible for ovarian functional changes in rat? *Recent Advance in Animal Science Research*, VI (B): 773-776.
 21. **Guria S**. and Das M (2011). Micro RNA signature: A new player in pathway alteration in cancer. (Review article). *Recent Advance in Animal Science Research*, VI (B): 720-726.
 22. **Guria S**. and Das M (2011) Impaired nitric oxide and acid phosphatase activity in hypo and hyperthyroid rat. *Recent Advance in Animal Science Research*, VI (B): 759-762.
 23. **Guria S**, Balmiki N, Chakrabarti S and Das M (2010). Thyroid deregulation causes cellular damage in pancreatic islets and spleen in rat. *Animal Biology Journal*, 2(1): 29-35.
 24. **Guria S**, Ray D (2011) Tribal health problems, sexually transmitted diseases with special emphasis on AIDS- a review article. *Tribal World*, 1: 39-42.
 25. **Guria S** (2011) Malnutrition and lead poisoning in tribal children in India-a review article. *Tribal World*, 1: 25-28.
 26. Chakrabarti S, **Guria S**, Balmiki N. and Das M (2010). Thyroid hormone mediated maintenance of glucose homeostasis and cytomorphology of cardiac muscle and skin in rat. *Animal Biology Journal*, 1(3): 157-164.

Articles published in Books by Srikanta Guria (3 chapters, 9 articles)

	Article	Book title, & publisher	ISBN No.
Srikanta Guria	1. Thyroid hormone mediated maintenance of glucose homeostasis and cytomorphology of cardiac muscle and skin in rat.	Animal Science & Issues, Edited by Jacob M. Jaworski Nova Sc. Publisher Int. chapter 1 (one article)	ISBN-10: 1617618705
	2. Thyroid Deregulation Causes Cellular Damage in Pancreatic Islets and Spleen in Rat.	Vertebrate and Invertebrate Animal Approaches , Jose Rosa Gomes Nova Sc. Publisher chapter 2 (eight articles)	ISBN:978-1-63117-103-1
	3. Hypothyroidism causes cellular damage retinal tissue and biceps in rat		
	4.Methimazole Induced Hypothyroidism Modulates Cytomorphology of Skin Epidermis and Collagen Synthesis in Rat		
	5. Hypothyroidism reduces phagocytic activity of rat macrophage.		
	6. Phagocytosis of yeast particles by peritoneal macrophage in normal and hyperthyroid rat.		
	7. Pulmonary Involvement of Arsenic Poisoning and Effect of Arsenic Toxicity on Peritoneal Macrophages and Spleen Cells in Rat.		
	8. Study of cytomorphology of pancreatic islets and peritoneal macrophage in alloxan induced diabetic rat: a mechanistic insight		
	9. Clinical Spectrum of Hypothyroidism in West Bengal, India.		

Name of the faculty: Dr. Debjani Sarkar

Paper presented at Conference/ Seminar:

1. UGC Sponsored National Seminar on “Rediscovering 100 Years of Journey on the Field of Immunology: Present Status of Immunological Research in India”, organized by the PG Department of Zoology, Barasat Government College and West Bengal State University; September 19th-20th, 2011
2. Resource Person in Re-orientation Training Programme. National Institute of Homoeopathy, Saltlake, Kolkata, West Bengal. February 7, 2009.
3. Resource Person in Preconference Workshop. IPSCON-2009, International Conference on Integrative & Personalised Medicine and 42nd Annual Conference of the Indian Pharmacological Society, Kolkata, India. December 9, 2009.
4. **Sarkar D**, Saha P, Hariharan C, Ganguly S, Sen R, Mandal G, Chattopadhyay S, Chatterjee M. Allylpyrocatechol exerts its anti-inflammatory activity by downregulating production of reactive nitrogen intermediates. DST (Govt. of India) and Higher Education Dept. (Govt. of West Bengal) - sponsored national symposium on Dimensions of Animal Researches and Human Need. Dept. of Zoology, Presidency College (Kolkata, W.B., India). September 7 - 9, 2009. (Oral Presentation).

List of Publications:

1. Hossain E, **Sarkar D**, Chatterjee M, Chakroborty S, Mandal SC, Gupta JK. Effect of methanolic extract of leaves of *Bombax malabaricum* on nitric oxide production during inflammation. Acta Poloniae Pharmaceutica. 2013; 70:255-260.
2. **Sarkar D**, Kundu S, De S, Hariharan C, Saha P, Manna A, Chattopadhyay S, Chatterjee M. The anti-oxidant activity of Allylpyrocatechol is mediated via decrease in generation of free radicals along with escalation of anti-oxidant mechanisms. Phytother Res. 2013; 27: 324-329.
3. Hossain E, **Sarkar D**, Maiti A, Chatterjee M, Mandal SC, Gupta JK. Anti-inflammatory effect of a methanolic extract of leaves of *Dregea volubilis*. J Ethnopharmacol. 2010; 132: 525-528.
4. Rodents-a basic model to study inflammation. Debjani Sarkar. Acad J Aureole 2014, No. 1, 109-117.

Name of the faculty: Mr. Somaditya Dey

Paper Presented at Conference/ Seminar:

1. **Poster presentation** on, ‘Astrakurkurone, a novel triterpene isolated from Indian mushroom *Astraeus hygrometricus*, induces mitochondrial dysfunction and ROS dependent death in *Leishmaniadonovani*’ at **National Seminar** on “Molecular Aspects of Human Diseases” on 31 January 2015 organized by Department of Zoology, University of Calcutta.
2. **Oral presentation** on, ‘Astrakurkurone, a novel triterpene isolated from Indian mushroom *Astraeus hygrometricus*, induces mitochondrial dysfunction and ROS dependent death in *Leishmaniadonovani*’ at “Elimination of Leishmaniasis in South Asia by 2015: Myth or reality?” organized by IPGMR, Kolkata on 22nd January, 2015.

3. **Poster presentation** on 1st **National Conference** on “Advanced Biology Through Technology and Computation” organized by Department of Microbiology, West Bengal State University & Kingston College of Science on 22nd of August 2014.
4. **Oral presentation and Poster presentation** on, ‘Astrakurkurene, a novel triterpene isolated from Indian mushroom *Astraeus hygrometricus*, induces mitochondrial dysfunction and ROS dependent death in *Leishmania donovani*’ at **International Conference** on "Molecular Biology and its Applications", on February 14th and 15th, 2014, by Department of Life Science and Biotechnology, Jadavpur University, Kolkata.
5. **Poster presentation** on, ‘Astrakurkurene, a novel triterpene isolated from Indian mushroom *Astraeus hygrometricus*, induces mitochondrial dysfunction and ROS dependent death in *Leishmania donovani*’ at **Symposium** on Frontiers in Modern Biology 2013, organized by Dept. of Biological Sciences, IISER-Kolkata; November 9th -10th 2013.
6. **National Conference** on CME in Immunology, organized by Dept. of Zoology, West Bengal State University, Barasat & Indian Immunology Society, New Delhi; November 4-5th 2011.
7. **UGC Sponsored National Seminar** on “Rediscovering 100 Years of Journey on the Field of Immunology: Present Status of Immunological Research in India”, organized by Barasat Government College & West Bengal State University; September 19-20th 2011.
8. **National Workshop** on Scanning Electron Microscopy, organized by University Science Instrumentation Centre, The University of Burdwan; July 26th-29th 2011.

Workshop attended:

1. **Training Course** on Clinical Flow Cytometry, organized by CRNN, University of Calcutta in association with BD Biosciences (India); June 11th – 13th 2013.
2. **International Workshop** on Application of Flow Cytometry and Imaging in Cell Biology and Nano-Biotechnology, organized by CRNN, University of Calcutta; August 11th-18th 2012.
3. **Training Programme** on, “Advanced Instrumental Techniques in Biochemistry, Molecular Biology & Immunobiology” at the Dept. of Zoology, University of North Bengal; October 11th - 16th, 2009.

List of Publications:

1. Pranab Ghosh, Amitava Mandal, **Somaditya Dey** and Chiranjib Pal (2015). Synthesis and in vitro Screening of 29, 30-Dibromo-28-oxoallobetulin against Parasitic Protozoans, *Leishmania donovani* and *Leishmania major*. *Indian J Pharm Sci*; 77(2):202-207, Impact Factor- 0.48
2. **Somaditya Dey**, Debarati Mukherjee, Sondipon Chakraborty, Suvadip Mallick, Aritri Dutta, Ningombam Swapana, Swatilekha Maiti, Narayan Ghorai, Chingakhom Brajakishor Singh and Chiranjib Pal (2015). Protective effect of *Croton caudatus* Geisel leaf extract

- against experimental visceral leishmaniasis induces proinflammatory cytokines in vitro and in vivo. *Experimental Parasitology*; 151-152:84-95. Impact Factor- 2.15
3. MdYousuf, Debarati Mukherjee, Abhishek Pal, **Somaditya Dey**, Supratim Mandal, Chiranjib Pal and Susanta Adhikari (2015). Synthesis and Biological Evaluation of Small Molecule Ferrocenylquinoline as a Potential Antileishmanial Agent. *Chem Med Chem*; 10, 546 – 554. Impact Factor- 2.98
 4. Suvadip Mallick[#], **Somaditya Dey**[#], Supratim Mandal, Aritri Dutta, Debarati Mukherjee, Gunjan Biswas, Soumya Chatterjee, Sanjaya Mallick, Tapan Kumar Lai, Krishnendu Acharya and Chiranjib Pal (2015). A novel triterpene from *Astraeus hygrometricus* induces reactive oxygen species leading to death in *Leishmaniadonovani*. *Future Microbiology*; 10(5): 763–789. Impact Factor- 4.28. ([#] Equal Contribution)
 5. Suvadip Mallick[#], Aritri Dutta[#], **Somaditya Dey**[#], Joydip Ghosh, Debarati Mukherjee, Sirin S Sultana, Supratim Mandal, Soumitra Paloi, Somanjana Khatua, Krishnendu Achary, Chiranjib Pal (2014). Selective inhibition of *Leishmaniadonovani* by active extracts of wild mushrooms used by the tribal population of India: An in vitro exploration for new leads against parasitic protozoans. *Experimental Parasitology*; 138: 9–17. Impact Factor- 2.15. ([#] Equal Contribution)
 6. Suvadip Mallick, Subhadra Halder, Aritri Dutta, **Somaditya Dey**, Sourav Maiti, Chandrakanta Bandyopadhyay, Bhaskar Saha and Chiranjib Pal (2013). Chromone-linked nitron derivative induces the expression of iNOS2 and Th1 cytokine network but reduces the Th2 cytokine in experimental visceral leishmaniasis. *International Immunopharmacology*; 15(4):772–779. Impact Factor- 2.47.

Select Dissertations by PG students

Topic of Research	Name of student	Year	Supervisor
Effect of anti malarial and anti depressant drug on treatment of leishmaniasis	Subhankar bhowmick	2014-15	Dr. Madhumita Manna
Molecular diagnosis of leishmaniasis		2014-15	
Present status of food-borne parasitic zoonoses in India	Jayeeta Mukherjee	2014-15	
Stress and its effect on immune system	Suchitra Guha Thakurata	2014-15	
Multidrug resistance	Pinki Ghosh.	2013-14	
DNA Vaccine for the neglected tropical disease : Leishmaniasis		2013-14	
Phytotherapy against the Leishmania Parasites	Shilpi Rani	2013-14	
Neglected tropical disease	Kundu.	2013-14	
Reducing Hilsafish on Gangetic Basin	Soumen Roy	2014-15	Dr. Debajyoti Chakrabarty
Ecological Resilience		2014-15	
Small Indigenous fish of India and Bangladesh as Source of nutrition	Paramita Banerjee	2014-15	
Medical importance of fish		2014-15	
Vermicomposting – a Farm Visit	Tanaya Kar	2013-14	
Molluscicidal Properties of Natural Plants		2013-14	
A review on the diminishing ichthyofauna diversity in the riverine system of sunderban due to uncontrolled prawn seed collection	Shubhajit Saha	2013-14	
Culture, maintenance and acute toxicity testing of copper sulphate on the fresh water snail- <i>Bellamya bengalensis</i>	Shubhajit Saha	2013-14	
Vermicomposting	Keya Halder	2013-14	
Fish Sanctuary-A possibility		2013-14	
Phosphorus Cycling	Dixie Ghosh	2012-13	
	Nibedita Sarkar		
Fish Migration		2012-13	
Drinking bottled water in india	Antu Bhattacharya	2014-15	Dr. Tuhin Saha
Green plastics –an alternative for petroleum based plastics		2014-15	
Life in high altitude lake	Loknath Biswas	2014-15	
Effect of temperature on the distribution of soil micro-arthropods at a brick manufacturing kiln		2014-15	
Rice bran oil: The healthy oil	Tua Paul	2013-14	
Indian species and herbs and their effect on human health		2013-14	
Recent trends of friendly decomposer	Subham Nandy	2013-14	
Electronic wastes and its hazards		2013-14	
Arsenic consuming bacteria and its future aspects	Susanta Das	2013-14	
Spider silk and its applications		2013-14	
Life in hot desert	Mahua Mallick	2012-13	
A pilot study to assess the level of elements in flesh of <i>Labeo rohita</i> and <i>Hilsa ilisa</i>		2012-13	
Ocean acidification	Pubali Ray	2012-13	
Relevance of prebiotics and probiotics today		2012-13	

High altitude lake in eastern India	Purnima	2012-13	
Use of bio indicator in the evaluation of toxicity in aquatic ecosystem	Karmakar	2012-13	
Animal defense against predators	Kantu Mondal	2014-15	Dr. Sanjay Podder
Coral reef: How they are impacted by climate change?		2014-15	
Exposure to fine particulate air pollution increased risk of autism	Soumita Biswas	2014-15	
Salamander is an abundant food source of forest ecosystem		2014-15	
Fluorosis	Sudipta kanrar	2013-14	
Bio-mimicry		2013-14	
Immediate hypersensitivity to house dust and house dust mites among Kolkata population	Sanghamitra Guha	2012-13	Dr. Tanaya De
Formalin, a formidable carcinogen, rampant in edible fishes in markets-its detection and effect on carps, probable impact on consumers		2014-15	
Impact of certain traits of blue- head wrasse in ecology	Aritra Ghosh	2014-15	
In the shadows of illumination-effect of artificial light on the ecology of birds and mammals		2014-15	
Behavioural changes in animals undergoing domestication	Sangita Das	2014-15	
Non-human primate behaviour and the effect of captivity on it	Prodipta Roy	2013-14	
Non human primate language		2013-14	
Visual pollution and its aspects at few places in West Bengal	Milan Kumar Jana	2013-14	
Depletion of polar ice cap		2013-14	
Primary amoebic meningoencephalitis	Samriddhi Sen	2014-15	Dr. Debjani Sarkar
Childhood acute lymphoblastic anaemia		2014-15	
Targetted therapies in cancer	Himadri Nath	2014-15	
Tristetraprolin- its role in inflammation and cancer		2014-15	
Inflammation and autoimmune disease	Priya Prasad	2013-14	
Superantigens		2013-14	
Advantages and disadvantages of synthetic drugs on inflammation	Moutan Chakraborty	2013-14	
Xenografting		2013-14	
Immunological aspect of malaria	Monidipa Das	2012-13	
Genetic transformation of parasitic protozoa		2012-13	
Immunological aspect of SARS	Debadrita Paul	2012-13	
Herbs used in cancer management		2012-13	
Immunological aspect of rheumatoid arthritis	Pamela Sarkar	2012-13	
Antibody based immunotherapy of cryptosporidiosis		2012-13	
Effects of chromium (VI) toxicity on murine peritoneal macrophages and chromium induced histological changes of pancreatic islets and liver: A Preliminary study of metal induced diabetes development(project)	Brintasree Chackraborty,	2014-15	Dr. Srikanta Guria
Highly Active Anti Retroviral therapy on AIDS- status and prospects (Review)		2014-15	

Hepatitis B & its therapeutic approaches (Review)	Moumita Banerjee	2014-15	
Molecular Mimicry-A Possible Cause Of Human Diseases		2014-15	
Cytomorphology of mice peritoneal macrophages, spleen cells and histological analysis of tissues under Eltroxin induced hyperthyroid condition(project)	Juin Mondal	2013-14	
Cancer immunotherapy	Juin Mondal	2013-14	
Role of Macrophages in Atherosclerosis: Risk of Cardiac Arrest (Review)	Nabanita Majumder	2013-14	
Traversal of pathogen through blood-brain barrier, insight mechanism		2013-14	
Role of Macrophages in Alzheimer's Disease (Review)	Madhurima Bose	2013-14	
Invertebrate immunity		2013-14	
Anthrax and bioterrorism	Arpita Kundu	2013-14	Dr. Rupendu Roy
Sarcocystis- its morphology, lifecycle, pathogenecity and control.	Namita Nashkar.	2013-14	
Poem syndrome, a rare autoimmune disease	Arpita Kundu	2013-14	
Poultry coccidiosis	Namita Nashkar.	2013-14	
How Ebv impairs recognition by CD8+ T cell?	Suman Karmakar	2014-15	
Coccidiosis in poultry birds	Md. Sahariar Sardar	2014-15	
Chromobacterium and its entomopathogenic activities in malaria and dengue infection	Suman Karmakar	2014-15	
Immunity and vaccination against H1N1 virus	Anwesha Banerjee	2014-15	Dr. Salil Kumar Gupta
Myiasis in human and domestic animals		2014-15	
Avian malaria	Sinjini Mukherjee	2014-15	
Pathogenicity of Ebola virus		2014-15	
Abundance and diversity of different necrophilous arthropods in fishes available in fish markets with reference to forensic entomology	Moumita Laha	2014-15	
Diversity by ecology and management with bio-pesticides of insects and mites infesting pulps and oil seed crop	Moumita Laha	2014-15	
Mites infesting fruit trees	Tanusree Ghoshal	2014-15	
		2014-15	
Biofuel production from algae			
Electric eels remotely control their prey	Indrani Adhya	2014-15	
		2014-15	
Insect Venom			
Insects as food	Sharmistha Banerjee	2014-15	
Insect Associated Mite		2014-15	
Assessment of Baculovirus as insecticide	Sujit Sarkar	2013-14	
Pathogens and predators of ticks and there potential in biological control – A review	Subrata Mondal	2013-14	
Age, Sex and disease(Parasitic)	Debjit Debnath	2013-14	
Insulin dependent diabetes mellitus-An autoimmune diseases		2013-14	

PART-H



ANNEXURE-2 TO 6:

ENCLOSURE OF VARIOUS CERTIFICATES

Annexure-2: NAAC Accreditation Certificate for Cycle-1, 2009



**Annexure-3: Latest Certificate for UGC Recognition of College under section
2(f) and 12(B) of UGC Act**

<p>Ph. 23236351, 23232701, 23237721 23234116, 23235733, 23232317 23236735, 23239437, 23239627</p> <p>Extension No. 413 (CPP-I Colleges) UGC Website: www.ugc.ac.in</p>	 ज्ञान-विज्ञान विमुक्तये SPEED POST	<p>विश्वविद्यालय अनुदान आयोग बहादुरशाह जफर मार्ग नई दिल्ली-110 002 UNIVERSITY GRANTS COMMISSION BAHADURSHAH ZAFAR MARG NEW DELHI-110 002</p>
<p>F. No. 1-1/2004 (CPP-I/C)</p> <p>The Principal, Barasat Govt. College, Barasat, Dist. North Twenty Four Parganas, <u>West Bengal – 700 124.</u></p>		<p>April, 2012</p> <p>11 APR 2012</p>
<p>Sub: - Recognition of Barasat Govt. College, Barasat, Dist. North Twenty Four Parganas, West Bengal – 700 124 under Section 2 (f) & 12 (B) of the UGC Act, 1956.</p> <p>Sir,</p> <p>With reference to your letter No. 75 dated 02.02.2012 on the above subject I am directed to say that the name of Barasat Govt. College, Barasat, Dist. North Twenty Four Parganas, West Bengal – 700 124, established in the year of 1950, affiliated to University of Calcutta is included in the list of Colleges maintained under Section 2 (f) & 12 (B) of the UGC Act, 1956 under the head 'Government College teaching upto Under-Graduate Degree'. The College is also eligible to receive Central assistance under Section 12 (B) of the UGC Act.</p>		
		<p>Yours faithfully,</p> <p> (Sunita Gulati) Section Officer</p>

Annexure-4: Latest UGC Grant Certificate

UNIVERSITY GRANTS COMMISSION
EASTERN REGIONAL OFFICE
LB 8 Sector III Salt Lake, Kolkata 700 098

ज्ञान-विज्ञान विभूतये

No. AGW-607/11-12

(ERO) ID No. WBS-039

Date: 13-Oct-14

10 OCT 2014

The Accounts Officer
University Grants Commission
Eastern Regional Office, Kolkata 700 098

S.No. 223081

Sub : Release of Grant-in-Aid during the Current financial year (2014-15), during XIIth Plan, to
Barasat Govt College

Sir/Madam,

I am directed to convey the sanction of the Commission for payment of Rs. **1000000** towards the scheme **Additional Grant (Equipment)** to the Principal, **Barasat Govt College** for the Plan expenditure to be incurred during the current financial year as per details given below:

Purpose of the grant	Approved allocation	Amount already sanctioned	Amount being sanctioned now	Total grant including the grant now being sanctioned
General District				
2nd instalment	(Rs.)	(Rs.)	(Rs.)	(Rs.)
Additional Grant (Equipment)	2500000	1250000	1000000	2250000

Total **1000000**

The College is requested to note:

- A. SC component: 15%, ST component: 7.5%, General component (including Minorities): 77.5%
B. No photocopy of bills/vouchers or the originals and detailed list of purchases should be sent with the accounts submitted unless specifically called for.

- The sanctioned amount is debit to Head 1.B-(i)(L)(ii) and valid for payment during the financial year 2013-14 only.
- The amount of the grant shall be drawn by the Accounts Officer (Drawing and Disbursing Officer), University Grants Commission on the Grant-in-Aid bill and shall be disbursed to and credited to grantee as above through Electronic mode as per the following details:

(a) Details (Name & Address) of Account Holder:

Principal,
Barasat Govt College
Barasat 24 Parganas (N)
West Bengal 700 124

(b) Account No.: 11216769935

(c) Name & Address of Branch: State Bank of India, Barasat, Kol-124

(d) MICR Code of Branch: 700002184

(e) IFSC Code : SBIN0000024

(f) Type of Account : SB/Current/Cash Credit.

You are requested to confirm the receipt of the above amount in your account by sending back the enclosed stamped receipt within 7 days.


- The grant is subject to the adjustment on the basis of Utilisation Certificate in the prescribed proforma submitted by the University/College/Institution.
- The University/College shall maintain proper accounts of the expenditure out of the grant which shall be utilised only on approved items of expenditure.
- The University/Institution may follow the General Financial Rules, 2005 and take urgent necessary action to amend their manuals of financial procedures to bring them in conformity with GFRs, 2005 and those don't have their own approved manuals on financial procedures may adopt the provisions of GFRs, 2005 and instructions/Guidelines there under from time to time.
- The Utilisation Certificate to the effect that the grant has been utilised for the purpose for which it has been sanctioned shall be furnished to the University Grants Commission as early as possible after the closing of the current financial year.
- The assets acquired wholly or substantially out of the University Grants Commission's grant shall not be disposed or encumbered or utilised for the purpose other than those for which the grant was given, without proper sanction of the University Grants Commission.
- A register of assets acquired, wholly or substantially out of the grant shall be maintained by the University/College in the prescribed form.



UNIVERSITY GRANTS COMMISSION
EASTERN REGIONAL OFFICE
LB 8 Sector III Salt Lake, Kolkata 700 098

10. The grantee institution shall ensure the utilization of grant-in-aid for which it is being sanctioned/paid. In case of non-utilization/part utilization, the simple interest @10% per annum as amended from time to time on unutilized amount from the date of drawal to the date of refund as per provisions contained in General Financial Rules of Govt. of India will be charged.
11. The University/College shall follow strictly the Government of India/UGC's guidelines regarding implementation of the reservation policy [both vertical (for SC,ST&OBC) and horizontal (for persons with disability etc.) in teaching and non-teaching posts.
12. The University/College shall fully implement the Official Language Policy of the Union Govt. and comply with the Official Language Act, 1963 and Official Languages (used for official purposes of the Union) Rules, 1976 etc.
13. The sanction issues in exercise of the delegation of powers vide UGC Order No. 130/2013 [F.No.10-11/12(Admn.IA&B)] dated 28/5/2013.
14. The University/Institutions shall strictly follow the UGC Regulations on curbing the menace of Ragging in Higher Education Institutes, 2009.
15. The University/Institutions shall take immediate action for its accreditation by National Assessment & Accreditation Council (NAAC).
16. The accounts of the University/Institutions will be open for audit by the Controller & Auditor General of India in accordance with the provisions of General Financial Rules, 2005.
17. The annual accounts i.e. balance sheet, income and expenditure statement and receipts and payments are to be prepared strictly in accordance with the Uniform Format of Accounting prescribed by Government.
18. Funds to the extent of Rs. _____ are available under the scheme _____
19. This issue with the concurrence of UGC vide Diary No. 573 (UGC) dated 19.09.2014
20. This issue with the approval of _____, vide Diary No. _____ dated _____

Yours faithfully,



(Dr. Mohammad. Arif)
Joint Secretary

Copy forwarded for information and necessary action to :

1. Principal/Teacher-in-Charge,
Barasat Govt College
Barasat 24 Parganas (N)
West Bengal 700 124
He/She is requested to abide by these instructions/Guidelines of sanction order
2. Registrar/ Director, Co-ordinator, College Development Council, WB State University
3. Auditor General, Govt. of West Bengal
4. The Secretary, Higher Education, Govt. of West Bengal
5. The Director of Public Instructions (Higher Education) Govt. of West Bengal
6. General District

Details of the amount is being released:

General component (3A): Rs.	775000
SC componen (3B)t:Rs.	150000
ST componen (3C)t: Rs.	75000
TOTAL:	1000000


(Avtar Singh)
Under Secretary

Annexure-5: Certificate of Affiliation from WBSU**WEST BENGAL STATE UNIVERSITY**

Berunanpukuria, Malikapur Barasat

24 Parganas (North), Kolkata - 700 126

Phone : (033) 2524 1975 / 1976 / 1978 / 1979 Fax : (033) 2524 1977

Ref. No : WBSU/Reg/University/Affiliation/certificate/844/14-15Date : 13/02/2015**TO WHOM IT MAY CONCERN**

This is to certify that Barasat Government College, of the address 10 KNC Road, Barasat, Kolkata-700124 is affiliated to West Bengal State University since the inception of the University and is recognized by the University Grants Commission. The following Courses/Subjects are taught in the said College as per approval.

Sl No.	Name of the Course(s) and Duration	Affiliation	Period of Validity
(I)	Three Year B.A. Hons. Courses in Bengali, English, History, Philosophy, Political Science, Sanskrit.	Permanent	-----
(II)	Three Year B.Sc. Hons. Courses in Physics, Chemistry, Mathematics, Botany, Zoology, Geography, Economics.	Permanent	-----
(III)	Two Year (Four semesters) M.A. course in Bengali	Permanent	-----
(IV)	Two Year (Four semesters) M.Sc. courses in Physics, Botany, Zoology.	Permanent	-----
(V)	Three Year B.A. General Course	Permanent	-----
(VI)	Three Year B.Sc. General Course	Permanent	-----

Signature
Registrar
13/02/2015

Registrar (Officiating)
West Bengal State University
Barasat, Kolkata- 700 126

Annexure-6: Observations of Audit and Accounts Dept. Govt. of West Bengal

No. of paragraph of I.R. , Period of IR , subject in brief and Present position of outstanding paras	Reply to the queries
<p>PART-I</p> <p>1. Introductory</p> <p>2. The present position of outstanding paragraphs is as follows : Period of IR : 01.03.1999 to 31.08.2007</p> <p>Para No. 5</p> <p>Subject in brief : Theft of cash- Rs.24901.50</p> <p>Present position : The matter lying with Director of Public Instruction for settlement</p> <p>3. Schedule of persistent irregularities – Nil</p> <p>Part-IIA - Nil</p>	<p>-</p> <p>-</p> <p>-</p> <p>-</p> <p>-</p> <p>-</p>
<p>Part- II B</p> <p>1. Management and maintenance of cash book - irregularities therein Scrutiny of cash book and bill register for the period from 01.01.2013 to 31.01.2015 revealed the following irregularities</p> <p>1)</p> <p>separate savings account at State Bank of India, Barasat Branch bearing A/c No. 11216769935 was maintained for management and maintenance of grants received from the university Grants Commission. A total amount of Rs.6099379.00 was received and Rs 3846385.00 was expended leaving a closing balance of Rs. 3080795.00 as on 31.01.2015- from available UGC Grants during the period between 01.01.2013 and 31.01.2015. However, the entire receipt and expenditure of UGC fund is neither routed through transactions through main cash book nor a subsidiary cash book was maintained for the purpose. In absence of such records, authenticity of transactions pertaining to UGC funds incurred during the period</p>	<p>1) UGC usually sanction and allot different grants for each plan period in different schemes which have separate norms to expend as per their guidelines thereof. The fund allotted in favour of the College directly deposited through ECS in the separate account maintained for the purpose as per UGC guideline vide letter No. F. Meeting-12/13-14(XII Plan/ERO) dated 03.02.14. A separate printed formatted cash book, showing total receipts and expenditure & balance along with scheme wise receipts and payments & balance is maintained for the funds receiving for XII Plan period and another register also indicating detailed statement of expenditure shown scheme wise are being recorded therein by the office. Moreover it is stated that no transaction is made by</p>

<p>between 01.01.2013 and 31.01.2015 couldn't be ascertained by present audit In reply authority stated that separate Cash Book was being maintained. Reply was not plausible as the cash Book was not in proper format, it was like a roughly maintained khata with no reflection in the main cash book.</p> <p>2) ill wise analysis at the end of each month was not recorded in the cash book. In absence of such analysis it could not be ascertained in audit how the local office exercised control over cash balance and whether the outstanding bills kept in hand were within the permissible time limit. In reply authority stated that physical verification of cash was done on day to day basis.</p> <p>Reply was not plausible as there was no analysis of outstanding cheques on the cash book.</p> <p>3) All entries in the cash book should be attested by the DDO but it was not done during the entire period covered under audit.</p> <p>4) Physical verification of cash balance at the end of each month is required to be done by the DDO and result of such verifications need be recorded in the cash book as per provision of the existing financial rules. However, this was not done during the entire period under audit.</p> <p>5) No stock register of pay-in-slip/DCR was produced to audit as such fees collected from students and others could not be ascertained in audit.</p>	<p>cash. The audited utilisation and the statement of expenditure for different schemes are being submitted to UGC office time to time as per their norms.</p> <p>However, action will be taken as per advice of the audit team.</p> <p>2) Noted for future guidance. All payments are through treasury cheques, either A/c payee or in the name of Principal which are deposited in the current A/c. Only cash collection from students' fees is deposited to the current A/c almost daily basis and thereafter deposited to State exchequer by Challan. Details of the cheques received are recorded in the receipts side, along with existing cheque register and cheques payment are also recorded in the payment side of the cash book with list of cheques remaining outstanding.</p> <p>3) All entries and opening & closing balance are marked by ink used for the purpose along with putting signatures in receipts and payment sides.</p> <p>4) Noted for future guidance.</p> <p>5) The statement of fees collection and bunch of duplicate pay-in slips and challan deposited are all making cross checked and preserved. A statement of stock of pay-in-slips is also preserved by cashier.</p> <p>6) The college received on 24.02.15 from Treasury the A/c payee cheques in favour of "Br. Manager, SBI Barasat</p>
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<p>6) During physical verification of cash it was observed that there was a difference of Rs. 5396421.21 between Cash Book opening balance as on 25.02.2015 (Rs. 8663127.50) and balance shown to audit (Rs. 3266706.29). In reply the authority stated that five cheques amounting to Rs 7700600.00 were paid on 23.02.15 but not shown in cash book. The closing balance of cash book on 23.02.15 was Rs. 138325.50. On 24.02.2015 the total receipt was Rs 77075.00 and total payment was Rs 794228.00. Thus closing balance on 24.02.2015 comes to Rs. 521172.50.</p> <p>Further the authority stated that the bank balance in the current SBI bank account 11216765056 in the Barasat branch which was shown during physical cash verification as part of the cash book was actually not reflected in the cash book. So the opening cash balance on 25-02-2015 included the following :</p> <p>1.Theft fund-----24901.50</p> <p>2.Physically found cheques -----4,96271.00</p> <p>3.Cheques which were already paid to party or deposited in Bank but not entered in cash Book payment side-----8141955</p> <p>Thus total balance comes to Rs 8663127.50 that is the cash book balance found on 25-02-2015.</p> <p>The authority did the necessary corrections in the cash book and showed to audit.</p> <p>This is brought to notice of the Government.</p> <p><u>5. Irregularities in the maintenance of Stock Register</u></p> <p>Scrutiny of records revealed that the college was maintaining department wise stock account but the issue column of the stock register was not being</p>	<p>Br.” marked with “Not payable before 26.02.15”, for payment of salary of teaching, non-teaching and Part-time teachers on 26.02.15. These were deposited to the SBI, Barasat Br. on the same day in order to process for timely payment through ECS mode to the incumbents on 26.02.15. The said amount is recorded in the cash book as receipts on 24.02.15 but as the salary payment date is 26.02.15, it was recorded in the cash book on 26.02.15 for payment as in practice. So on 25.02.15 these were neither in hand nor were recorded in the cash book in payment side. It seems that the discrepancy of balances on 25.02. 15 might have been reflected in the cash book for the above reason.</p> <p>However, as per advice of the audit the said discrepancy was rectified and shown to the audit.</p> <p>5.A. As per availability of grant Funds are distributed department –wise and the purchase of chemicals, equipment etc are made departmentally. The stocks are maintained by the departmental teachers, in absence of store keeper in most of the departments .However the Head of the departments are instructed to maintain the stock</p>
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<p>maintained. Also the balance was not drawn after issuing any article from the stock register. In absence of the properly maintained stock register the physical balance of inventories could not be checked.</p> <p>In some cases separate sub-stock register for chemicals and lab equipments was being maintained by the departments. In course of through checking, it was revealed that the lab related equipments including chemicals were issued after three to four months of procurement</p> <p>In reply the authority stated that chemicals were purchased/ procured at the end of each financial year when the funds were available ie in the month of February/March but at that time the students are on leave. After three to four months ie. In the month of July on wards the classes /examinations start and it was issued to the candidates and recorded in the stock.</p> <p>Things should not be purchased unless they were required for immediate use. The college as clear in the reply, was using chemicals only after four months of it being purchased. The reply clearly brings out the rush of expenditure being practiced in the college at the end of the financial year. This was against the rules of expenditure.</p> <p>B: The head of an office or any other officer entrusted with stores of any kind should take special care of the goods for arranging their safe custody, for keeping them in good and efficient condition and for protecting them from loss, damage.</p> <p>Scrutiny revealed that goods purchased from the Government fund were not given any serial number. No numerical inventory was being maintained.</p> <p>Computers, tables, chairs, almirahs and different machines used by different departments were lying without proper stock entry number.</p>	<p>properly with the mentioning issue of articles from the stockr and balance of the same.</p> <p>Usually in each year from March the students are on study leave as the examination begins from the month of May onwards when funds are usually not available. The college development grant under state plan is available to the college in the month of March each year.</p> <p>However it is noted for future guidance.</p> <p>B. Heads of the departments and office assistant are already instructed to take action in respect of giving serial nos. on goods purchased, as per advice of the audit and will be shown to the next audit.</p> <p>6. A. The said advance was sanctioned to the incumbent in the circumstances of treatment of his dependent mother's illness as a special case. However it</p>
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<p>Under the circumstances there was high chance of theft/loss of property getting unnoticed.</p> <p>The authority in its reply assured that it would rectify the system followed in the college. This is brought to notice of the Government.</p> <p>6. <u>Irregularities in GPF ledger</u></p> <p>Barasat Government College was responsible for maintenance of GPF of its GR.D staff. As per GPF Rule (15) withdrawals may be sanctioned by the authority competent to sanction an advance (non-refundable). The sum so withdrawn by a subscriber from the amount standing to his credit in the GPF shall not ordinarily exceed on half of such amount or six month's pay whichever is less.</p> <p>A. In course of through checking of GPF ledger for the period covered under audit, it was observed that Shri Pranab Kr. Das, an ex-incumbent of the local office was given an advance (non-refundable) of Rs. 33000 vide bill no.23F8009 dated 4.6.2012. This was in contravention to the standard rule as mentioned above as his GPF balance at the end of month May 2012 as per GPF ledger was Rs. 25343.00 which was less than the advance given to him by Rs. 7657.00. Further it was not deducted from the balance of that month to avoid the negative progressive balance.</p> <p>B.</p> <p>Further it was found that an amount of Rs. 10000.00 was also sanctioned to him as a non-refundable advance vide bill no. 117/I/8009 dated 30.11.2012 which was not debited from the amount at his credit at the end of the previous month.</p> <p>The amount was debited at the bottom of the ledger while calculating balance as on 31st. March 2013.</p> <p>Thus due to non-deduction of the non-refundable advance taken from the balance of the months in which they were drawn the ledger showed an inflated</p>	<p>will be strictly followed in future.</p> <p>A. The college has only one accountant who is in addition entrusted with the works relating to different students' services, works relating to university affairs, preparation of bills and maintaining of overall office as the post of Head Assistant has been lying vacant since long time and thus overloaded with work. The action as noted herein was made inadvertently due to overlook. It was sanctioned as per sanction order prepared by the accountant of the college. The exact amount of excess payment for interest to Sri Das, a retired Gr.D staff is ascertained and necessary recovery is made by this office.</p> <p>A.</p> <p>necessary correction is already made as per advice of the audit and showed to the audit.</p>
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progressive total which result in excess interest and excess final payment given to Shri Das.

In reply the college authority stated that the mistake was made inadvertently and that the advance was sanctioned to the incumbent as a special case for treatment of his dependent mother's illness.

This was however not permissible as per GPF rules. This clearly brings out the lack of administrative as well as financial control in the college. The authority should ensure that this type of gross violation of GPF rules is not repeated in future.

This is brought to notice of the Government.

TAN

A. Irregularities in Leave posting

Scrutiny of service books of the local establishment revealed that Ms Swati Mitra, Assistant professor of the Barasat Govt. College had joined her service through WBES on 05.01.2007.

As per WBSR 173 and 176 from 01.07.2001 half pay leave should be credited in advance @ 10 days on 1st. January and 1st. July every year and for each completed calendar month HPL should be credited @ 5/3 days.

However it was noticed in case of the incumbent that HPL was not credited in her leave account for the period from 01.02.2007 to 30.06.2007. She was credited 10 days HPL only from 01.07.2007 to 31.12.2007. She should have been given 8 days HPL on 01.02.2007 to 30.06.2007.

Further her leave account was credited with 8 days of HPL in place of 10 days HPL for the period from 01.07.2008 to 31.12.2008.

Necessary steps need be taken to set right the leave posting of Swati Mitra.

This is brought to notice of the Government.

PART-I

DECLARATION BY THE HEAD OF THE INSTITUTION



**GOVERNMENT OF WEST BENGAL
BARASAT GOVT. COLLEGE**

Office of the Principal

10 K. N. C. Road, Barasat, Kolkata-700124, Phone No. : (033) 2552 3365, Fax (033) 2562 5053
website : <http://barasatgovernmentcollege.net/>, E-mail : info@barasatgovernmentcollege.net

Memo No. 542

Date: 22.07.2015

Declaration by the Head of the Institution

I certify that the data included in this Self-study Report (SSR) are true to the best of my knowledge.

This SSR is prepared by the institution after internal discussions, and no part thereof has been out sourced.

I am aware that the Peer team will validate the information provided in this SSR during the peer team visit.

Signature of the Head of the institution with seal

[Handwritten Signature]
Principal,
Barasat Govt. College
Govt. of West Bengal

Place: Barasat, North 24 Parganas, West Bengal

Date: 22.07.2015

