

SELF STUDY REPORT FOR CYCLE II
ACCREDITATION 2016
OF
BIDHANNAGAR COLLEGE
EB 2, SECTOR 1, SALT LAKE,
KOLKATA 700064
(Established 1984)



NAAC CYCLE 1 ACCREDITATION (2006): "B++" GRADE
RECIPIENT OF DST-FIST AWARD IN 2014



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

**OFFICER - IN - CHARGE
BIDHANNAGAR COLLEGE**

Govt. of West Bengal

EB-2, Sector - I, Salt Lake

Kolkata - 700 064

Phone : (033) 2337 4761, 2337-4782

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सत्यमेव जयते

বিধাননগর কলেজ

পশ্চিমবঙ্গ সরকার

ই. বি. - ২, সেক্টর - ১, সল্টলেক

কলকাতা - ৭০০ ০৬৪

দূরভাষ - (০৩৩) ২৩৩৭-৪৭৬১

(০৩৩) ২৩৩৭-৪৭৮২

Ref. No. 2067.....

Date 26.07..... 2016..

To
The Director
National Assessment and Accreditation Council (NAAC)
P.O.- Box No. 1075
Nagarabhavi
Bangalore-5600272

Subject: Uploading of the Self-study Report of Bidhannagar College for the Second Cycle of NAAC accreditation in the institutional website.

Sir/Madam,

This is for your kind information that we are uploading the Self-study Report (SSR) of our college for the second cycle of NAAC accreditation of Bidhannagar College in our institutional website www.bidhannagarcollege.org. We are sending the letter of intent (LoI) by online very soon.

Thanking you.

Yours sincerely

Dr. Subhas Ch. Jana
Officer-in-Charge
Bidhannagar College

OFFICER-IN CHARGE
Bidhannagar College
EB-2, Salt Lake, Kolkata - 64
GOVT. OF WEST BENGAL



SELF STUDY REPORT FOR CYCLE II ACCREDITATION 2016

OF

BIDHANNAGAR COLLEGE

EB-2, SECTOR-I, SALT LAKE, WEST BENGAL, Pin-700064, INDIA

NAAC CYCLE-I ACCREDITATION (2006): “B++” GRADE (CGPA: 2.60)

Submitted to

**National Assessment and Accreditation Council (NAAC)
An Autonomous Institution of the University Grants Commission
P.O. Box No 1075
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(০৩৩) ২৩৩৭-৪৭৮২

Ref. No. 2068.....

Date 26.07..... 20 16.

Certificate of Compliance

This is to certify that Bidhannagar College fulfills all norms:

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

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 liable to be withdrawn. It is also agreeable that the undertaking given to NAAC will be displayed on the college website.

Dr. Subhas Ch. Jana
Officer-in-Charge
Bidhannagar College



**OFFICER-IN CHARGE
Bidhannagar College
EB-2, Salt Lake, Kolkata - 64
GOVT. OF WEST BENGAL**

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PREFACE

Bidhannagar College, a well-known co-educational institution, has the rare distinction of offering quality education to students from Kolkata as well as the suburbs, owing to its location on the fringes of the city. Since its inception thirty years ago, on a modest scale with a handful of teachers and a few departments, it has now developed into one of the premier government colleges in the state with sixteen undergraduate and three post-graduate departments. The college is awaiting its second accreditation by the NAAC, after the first accreditation in 2006.

The college has made remarkable strides since then. It has been granted financial support by the Department of Science and Technology on the recommendations of the FIST Advisory Board (FISTAB) which includes funds for equipment for teaching and research in the science department, a computer laboratory, books and an e-learning room. Computer training, 'Basic Computer Course', conducted by NIELT (National Institute of Electronics and Information Technology), under the Ministry of Communications and IT, Government of India, is offered to students of the first year. Besides this, the college also offers NET-SET Training programme in Life Science/Arts, funded by the UGC. The college has a number of student-aid programmes to help needy students, such as Merit cum Mean scholarship, Inspire, SC/ST Scholarship and scholarship for Minority students. Since the last accreditation, three new undergraduate departments (Anthropology, Education, Geography) and a postgraduate section in chemistry have been set up.

Bidhannagar College celebrated its Silver Jubilee in 2009 with great fanfare, including academic as well as cultural programmes. A commemoration volume was brought out on the occasion with contributions from eminent personalities, teachers, staff and students.

Bidhannagar College has expanded greatly in the last few years. A new six-storey building has been constructed with a plan for setting up and functioning of the Principal with his Office, the different Humanities Departments and other purpose. Besides this, a canteen cum Cafeteria has been constructed which is of great use to students, teachers and office-staff. The huge playground is well-maintained and provisions for indoor games and a multi-facilitate gym have also been made. The beautiful garden and the newly set-up gymnasium are matters of pride for the college. In fact, Bidhannagar College is quite famous for its greens and variety of trees. The peaceful and pleasing atmosphere of the college owes much to the beneficial presence of Nature all around.

The cheerful atmosphere of the college is greatly conducive towards building a healthy, student-teacher relationship. The quiet surroundings help in improving the quality of teaching and research. Teachers of Bidhannagar College are deeply committed to their academic responsibilities. Apart from routine classes, special classes are held for weaker students. Students record is actively maintained in the college. Students are encouraged to develop an original, critical approach towards their studies. Being an exclusively Honours and post-graduate teaching college, the standard of education is naturally of a high order. Teachers are actively involved in research activities and have a number of ongoing research projects, sponsored by the

UGC, DST West Bengal, MOFPI and other agencies also. The college takes pride in the number of prestigious publications by its teachers.

A number of UGC-sponsored seminars have been held in recent times, with eminent speakers from different parts of the country. Besides, lectures by teachers of the college to encourage inter-disciplinary trends of thinking are regularly organized. For example, a lecture on Higgs-Boson theory was arranged by the Department of Physics which was attended by students and teachers of different departments, as it was of absolutely current interest. Student seminars are organized by different departments to motivate students in independent thinking. Apart from routine excursions organized by Science departments, extension activities and educational tours are undertaken for providing valuable exposure and experience to students of the college. The career-counseling cell of the college works actively towards providing guidelines for career choices as well as job opportunities.

Various cultural programmes are held throughout the year to celebrate occasions such as Independence Day, Rabindra Jayanti, Republic Day, Environment Day, *Bhasha Dibas* and so on. Students are encouraged to participate actively in these programmes for the development of cultural and patriotic values. The Students' Union organizes an annual fest, 'Dhun', and the Freshers Programme 'Alaap' which is extremely popular. Different schemes to ensure mental and physical health are undertaken by the college. The NSS (National Service Scheme) unit of the college is actively engaged in various awareness programmes. The college takes pride that the Anti-Ragging Cell, has not received any cases so far. Also, the Women's Grievance cell (in match *Visakha Guidelines*) in the past has not received any complaint from students or members of the staff. The process of formation of Internal Complaints Committee is on and it is to be operative any time now or then.

The newly shifted college library in the New Administrative Building has a rich collection of the latest, advanced reference books as well as classic texts and basic books. The library has started digitization of its catalogue to facilitate users.

Bidhannagar College strives at every level to provide the best all-round education to its students. The aim is to nurture young minds so that they graduate into responsible citizens who succeed individually, as well as care for collective improvement in society. While academic training is the fundamental aim of the college, there is as much emphasis on character-building and cultivation of values. The college is proud of its former students who have achieved great success in different academic and cultural fields, and nourishes the hope that present students will continue with the rich legacy, paving the way for a bright and glorious future for Bidhannagar College.

**EXECUTIVE
SUMMARY**

EXECUTIVE SUMMARY

CRITERION -1: CURRICULAR ASPECTS

1. Curriculum Planning and Implementation

- a) The college has its goal in imparting all-round education to its students. And the students are inspired to work for the betterment of society along with developing their individual talents and learning the right values. The teachers and the non-teaching employees actively extend their co-operation in this regard.
- b) The institution follows the curriculum set by its affiliating university (West Bengal State University) in all its undergraduate courses. A number of teachers as members of the Board of Studies of different subjects in the University actively contribute to the curriculum formation in Undergraduate level. The Postgraduate departments on the other hand are autonomous in status and their curriculum is set by the Post Graduate Board of Studies of respective Departments.
- c) The stated objectives of the curriculum are implemented through class teaching and regular assessment of students' activities

2. Academic Flexibility

- a) The Institution has its focus on holistic development of pupil providing complementary programmes related to computer literacy and Social Service activities related to NSS, Sports and Culture related programmes.
- b) The college is a Honours College offers 16 Undergraduate Honours programmes and 3 Post Graduate degree programmes. The UG programmes are affiliated to West Bengal State University and follow their curriculum while the PG programmes are academically autonomous.

3. Curriculum Enrichment

- a) In context of the **cross-cutting issues** the measures are taken in regard to Gender studies Environmental Studies, Use of Satellite imaging and GPS technology, Teaching issues of Human Rights and ICT based teaching. **Value Education programme** is an annual fixture that exposes students to human rights, gender and environmental issues.
- b) In context of the **value-added courses/enrichment programmes** the measures are taken in regard to Moral and ethical values, Employable and life skills, Better career options, Community orientation and Psychological Counseling.

4. Feedback System

- a) There is a student feedback system in place. However the thrust area in the questionnaire is targeted at 3rd year students who are expected to put a comprehensive input in regard to the institution, and academics.
- b) Analysis of the student feedback is done.

CRITERION -1I: TEACHING - LEARNING AND EVALUATION

1. Student Enrollment and Profile.

- a) The College lays its priority in ensuring absolute merit based admission to all deserving and meritorious students. For this, the College takes utmost care to ensure transparency in its admission process both in hard and soft version. To ensure transparency in the admission process the **College has made it mandatory for applications to be filled online** in the college website www.bidhannagarcollege.org .
- b) The present system of admission refers to Govt. Of West Bengal and West Bengal State University, Barasat guide lines with regard to reserved categories.
- c) The minimum and maximum percentage of marks at the entry level is not uniform because of the demand and the scope of different subjects happens to be different.
- d) For PG courses, 60% of the seats are reserved for the students of the same University (WBSU) and the remaining 40% of the seats are open to graduates of all universities. Selection of the 40% seats is done on the basis of admission tests.

2. Catering to Student Diversity

- a) The college takes initiative to provide for different forms of the Bridge/Remedial/ Add on/Enrichment Courses, etc.
- b) The college has adopted different means for sensitizing the students and staffs in issues like Gender, Inclusive Representation , Environment concern and friendliness in forms of Energy conservation, Usage of solar energy and rain water harvesting, plantation programmes as well as proper waste management maintain carbon neutrality.
- c) The College efficiently identifies and supports the needs of the advanced learners in a number of ways like providing ICT based academic support, supporting in-house and out-house library resources, in-house and out-house advance research laboratories and likes.

3. Teaching-Learning Process

- a) The College plan and organises teaching, learning and evaluation of schedules in a number of ways like preparation of Academic Calendars, Curriculum Plan, Conduct of internal assessments like Class Test, Midterm Test, Selection Test and End Semester Examinations for PG courses.
- b) The IQAC body of the College meets to monitor the multi-dimensional aspect of academic activities and focus on effective implementation for Total Quality Management for Teaching-Learning process for all stakeholders.
- c) A number of measures have been taken to nurture critical thinking, creativity and scientific temper among the students to transform them into life-long learners and innovators like arranging an Inter College Essay Competition, conducting Seminar Classes, students to participate in Inter-College Debate, Quiz and other forms of academic competition etc.
- d) The institution ensures that the curriculum is completed for each course within the time frame.
- e) The Institute monitors and evaluates the quality of teaching – learning on a regular basis. The Principal / Officer-in-Charge keep a regular vigil on the regularity of the classes.

4. Teacher Quality

- a) Of the total fulltime **101** faculties in the College **56 (55.4%)** faculties have completed PhD, **15 (14.9%)** faculties have completed M.Phil & **30 (29.7%)** faculties have M.A. / M.Sc. as their highest qualification as on 01.07.2016. Among the Part-time teachers/ Guest Lecturer (GL) out of **22** faculties **20 (90.9%)** are PhDs and **2 (9.1%)** have M.A/ M.Sc as their highest qualification.
- b) Faculties regularly participate in different types of faculty development programmes like Refresher Courses, Orientation Programmes, Summer /Winter Schools, Workshops etc.
- c) Faculties across different disciplines are Invited as resource persons in Workshops /Seminars/Conferences organized by external professional agencies; Further they have Participated in external Workshops / Seminars/Conferences recognized by national/ international professional bodies ; they have also Presented papers in Workshops / Seminars / Conferences conducted or recognized by professional agencies.
- d) The College has introduced student feedback system (from the outgoing 3rd Year Undergraduate Honours students) to evaluate the teachers performance.

5. Evaluation Process and Reforms.

- a) The institution ensures that the stakeholders of the institution especially students and faculty are aware of the evaluation process.

- b) The institution ensures effective implementation of the evaluation reforms of the university and those initiated by the institution on its own.
- c) The evaluation reforms reframing of pattern of Questions with a combination of essay type questions, short answer questions, multiple choice questions in theoretical papers. Further it includes continuous laboratory experiments/assignments, Fieldwork / Excursion based assessments etc. Preparation of Projects through collection and analysis of chemical and biological samples and Preparation of a dissertation paper in post-graduation level.

6. Student performance and Learning Outcomes

- a) The college has clearly stated its learning outcomes represented through successful alumni. Further, the Career Counseling Committee under the Teachers Council exposes the students of the College to the greater academic and professional world outside.
- b) The institution monitors and ensures the achievement of learning outcomes through a number of ways which include University and College Examination results, Seminar presentations, Project works, Inter and Intra College competitions in academic and co-curricular activities.
- c) The institution and individual teachers use assessment/ evaluation outcomes as well as student feedback as an indicator for evaluating student performance, achievement of learning objectives and planning. On the basis of the individual assessment of the students, the faculty members guide different students for different openings.

Criterion III: RESEARCH, CONSULTANCY AND EXTENSION

1. Promotion of Research

- a) Teachers of different departments are actively engaged in Major & Minor research work as reflected through the number of recently sanctioned (5) or recently completed research projects (20) from the institution.
- b) The institution, to facilitate smooth progress and implementation of research schemes/projects provides autonomy to the P.I (Principal investigator), timely release of resources, infrastructure in the form of laboratory, equipments, computer & internet facilities etc.
- c) The different efforts made by the institution in developing scientific temper and research culture and aptitude among students include Organizing scientific seminars, special invited lectures, Encouraging undergraduate and postgraduate students to submit papers/posters in symposia, conferences, Educational excursions and field trips by the different departments, Dissertations by postgraduate student inspire research culture and create aptitude etc.

- d) The modalities of the faculties involved in active research include Guiding Postgraduate students for M.Sc. Dissertation, Guiding scholars for PhD, Projects, Pursuing doctoral and postdoctoral research etc.
- e) The college has organised many seminars/workshops/training and sensitizing programmes with the objective to increase research capacity and outlook among students and faculty.

2. Resource Mobilization for Research.

- a) Since this is a Government College it has no financial autonomy and there is no provision for providing seed money to the researchers.
- b) The College has received special grant from funding agencies like UGC, DST-FIST, WBDST etc. for developing research facility and funding research projects.

3. Resource facilities

- a) The college has developed research infrastructure over the years with fund acquired from State Higher Education Department and other grants form UGC & DST-FIST.
- b) The modern research resource facilities include Laboratories with sophisticated instruments, Computers with Internet facility, Enriched Central library and individual departmental library.

4. Research Publications and Awards.

- a) The College is to publish its own Academic Journal **Intelligentsia**.
- b) The teaching faculties regularly publish their research works and academic areas of interest in Peer Reviewed International and National Journals of repute.
- c) The Students also present their articles to the Students' Magazine published by the Students' Union under the mentorship of the Principal.
- d) Some of the faculties have received research related awards in recent times.

5. Consultancy

- a) Being an employee of a Government College the faculty cannot advertise or advocate their expertise.
- b) The consultancy services are provided by the faculties on an honorary basis and therefore, no revenue is generated.

6. Extension Activities and Institutional Social Responsibility (ISR)

- a) The College promotes institution-neighbourhood-community network and student engagement, contributing to good citizenship, service orientation and holistic development of students.
- b) The extension and outreach programmes of the college are organised by the NSS unit.
- c) The students of the institution awards have received awards for extension activities and/contributions to the social/community development.
- d) The outcome of the involvement of the students in NSS activities enables them to communicate with different levels in society, which make them sensitive towards social responsibilities.

7. Collaboration

- d) The collaboration activities of the institution happen in form of Organisation of Seminars, research collaboration, , invited lectures from eminent scholars etc.
- e) Nature Club of the college “Prakriti Porichoy” under the aegis of WWF coordinated by one of the faculty was initiated from 2013.

CRITERION IV: INFRASTRUCTURE AND LEARNING RESOURCES

1. Physical Facilities

- a) The College is on the verge of completion of a six-storey Administrative cum Arts Building to overcome the space constraint of 16 UG and 3 PG departments.
- b) All science departments have specialised facilities of teaching and research. ICT based infrastructure is provided in eight departments viz. Anthropology, Botany, Chemistry, Geography, Mathematics, Microbiology, Physics and Zoology. Laboratories with specialized equipments improve the academic infrastructure of the college.
- c) Besides a medicinal plants garden, *Parasar*, an Animal House also augment the academic facilities.
- d) In context of sports and games, the college can boast of its large play ground with provision of both indoor and outdoor game facilities and a gymnasium, equipped with advanced fitness machines.
- e) The college has made collaborative effort with NIELIT situated in the ground floor to arrange for Basic Computer training programme provided free of Cost to all the students.

- f) The students have access to subsidised healthcare facilities from the Students Health Home, a state-level autonomous health organization while the teachers and non-teaching staffs have medical cover under West Bengal Health Scheme.
- g) The College is yet to have its own student's hostel. The official correspondence of building the Students hostel with State Higher Education Department is on and advanced to a considerable extent. Some of the teachers and non-teaching staffs avail housing facilities under West Bengal Government Housing department.

2. Library as a Learning Resource

- a) The college can boast of its Central library which has an enriched collection of Books and Journals which is further complemented by enriched seminar library in each department.
- b) The position of the central library is being relocated to the new Administrative cum Arts building.
- c) Process of computerisation in the new library is on in the new set up after the completion of the physical shifting of the holdings.
- d) College library uses N-LIST programme to facilitate the teachers in using service and avail access to established journals.

3. IT infrastructure

- a) 74 functional computers supported with internet facility are being operative in the college at present point of time.
- b) The institution facilitates extensive use of ICT resources including development and use of computer-aided teaching/ learning materials by its staff and students.

4. Maintenance of Campus Facilities

- a) The Different sources of funds for smooth running of the Institution include Development Grant from Government of West Bengal, UG and DST – FIST.
- b) In regard to Non-Plan expenditure, the college receives grants form Government of West Bengal for payment of salaries for the staffs.
- c) Cleanliness is the foremost priority in all the departmental laboratories as well as computer laboratory.
- d) A new Electric Power Station is in the process of installation by WBSEDCL for providing power back up of the new Administrative building.

CRITERION V: STUDENT SUPPORT AND PROGRESSION**1. Student Mentoring and Support.**

- a) The College publishes annual Academic calendar regarding academic and co-curricular activities. Further, each department has its own Curriculum Plan for academic transparency.
- b) Students of the College receive different types of aids and scholarships from both government and non-government funding.
- c) Girl students benefit from the new types of scholarships earmarked for them like *Kanyasree Prokolpo*.
- d) The toppers from the Department of English, Bengali and Mathematics receive endowment prizes named after scholars of repute.
- e) The students from SC/ ST / OBC and other weaker sections are provided assistance from the Government of West Bengal from different schemes specially made for minorities and backward communities.
- f) The students of the college participate in different types of academic and co-curricular activities which include, Essay & Creative writing competition, Debates, Quiz, Sports, Cultural programmes, Youth Parliament etc.
- g) The College has a NET – SET coaching programme fully-funded by UGC.
- h) The College has made collaborative arrangement with National Institute of Electronics & Information Technology (NIELIT) study Centre under Department of Information Technology, Govt. of India, approved by AICTE.
- i) The College makes an effort to organize round the year activities such as intra-College competitions in various categories like singing, recitation, dancing, painting, Urdu-*shayari* and various such other activities.
- j) The College has a Career Counseling Committee under the Teachers Council which brings in counselling experts for students' career counseling.
- k) **RTI** (Right to Information) Committee has been formed to address queries regarding college. There is a Grievance Redressal Cell in the college where students can record their grievances.
- l) Anti-Ragging Committee is formed by the Teachers' Council, comprising senior teachers. Students are also made aware of the National Anti-Ragging Help Line.
- m) The College has various students' welfare schemes which provide a healthy environment

for students.

2. Student Progression

- a) The institution is constrained by lack of proper documentation of records related to students' progression particularly from UG to PG. Information is received from the students by the departmental faculties either informally or through personal contact. The lack of communication from the pass-out students is the main cause for this constraint.
- b) However, a record of students' progression from PG to PhD is excellent in context of the PG departments in the college.

3. Student Participation and Activities

- a) The Annual sports, which is a regular annual event involves active participation of students, teachers and non-teaching staffs.
- b) Students of various Departments of the College publish their Wall Magazines periodically.
- c) The college has a democratically elected Student Council named as "Bidhannagar College Students' Union" or "*Bidhannagar College Chhatra Samsad (in Bengali)*".
- d) Various academic and administrative bodies of the College like **Governing Body, IQAC, Cultural Committee, College Games and sports Committee, NSS Committee** have student representation and active participation..
- e) The mission of the Alumni Association is to reach, engage and serve all alumni and present students by networking with one another to foster a life-long intellectual and emotional connection between the college and its graduates.

CRITERION VI: GOVERNANCE, LEADERSHIP AND MANAGEMENT

1. Institutional Vision and Leadership

- a) The Institution aims to educate young people coming from all sections of the society with academic excel, empower them, inculcate human values, instill leadership qualities and help achieve important positions in the society.
- b) As a Government College this institution is administered directly by the Higher Education Department and the Education Directorate, Government of West Bengal.
- c) As Head of office, the Principal provides leadership in creating a positive working environment and implements the government policies.
- d) 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.

- e) 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.
- f) The teachers function in different ways for the smooth running of the college. They conduct College Admission, University examinations, Students' Union election, Excursion, Project work and various other administrative works.
- g) The non-teaching staffs are also a member of the Governing Body of the College and IQAC, thereby accruing direct management skills.

2. Strategy Development and Deployment

- a) The Institute formulates its plan for development by considering certain issues. It takes into consideration the development of Teaching-Learning process, research activities and development of infrastructural facilities. Grants received from the, State Government as well as from UGC, DST etc. are utilized effectively for this purpose.
- b) The Institution has developed quality improvement strategies in regard to Teaching & Learning, Research & Development, Community engagement, and Human resource management.
- c) The Institution has a mechanism for analyzing student feedback on institutional performance which helps to monitor the day to day situation of the college.

3. Faculty Empowerment Strategies

- a) The teachers regularly attend Orientation Programme, Refresher Courses and other courses conducted by the various Academic Staff Colleges for their enrichment. They are encouraged in conducting research projects, participating in seminars and workshops.
- b) The non-teaching staffs were given Computer training and hands-on interactive sessions with software related to administrative work.
- c) Many young faculties of different departments are pursuing PhD work or have complemented PhD in recent times.
- d) The Institution maintains daily faculty Self-Appraisal System in which each teacher keeps a record of attendance, classes allotted and taken and other academic and administrative activities done inside and outside the college.

- e) As part of the welfare schemes, the permanent employees of the College are entitled to the General Provident Fund (GPF), Group Insurance (GI) Scheme and the Cashless Health Scheme of the Government of West Bengal which also includes family members of the employees.

4. Financial Management and Resource Mobilization

- a) A committee consisting of teaching and/or non-teaching staff are constituted every year regarding purchases and to monitor the utilization of resources.
- b) The institution receives annual funds under the Head Plan and Non-Plan from the Government of West Bengal. The College has also received fund from the UGC and DST-FIST.

5. Internal Quality Assurance System (IQAS)

- a) The College has constituted Internal Quality Assurance Cell (IQAC) on 29.01.2013 as per the UGC-NAAC guidelines.
- b) Most of the decisions made by IQAC have been approved by the authority and attempts were made to implement them.
- c) There are external members included in the IQAC who offer valuable suggestions on many occasions. The members include Joint Director of Public Instruction, Local Representative, scientist from Bose Institute etc.

CRITERIA VII: INNOVATIONS AND BEST PRACTICES

1. Environment Consciousness

- a) The College is located in one of the greener areas of Salt Lake, so the process of assessing the environmental impact of the educational institution is evident.
- b) A committee under the Teachers Council named College Beautification Committee regularly monitors the maintenance of an environment friendly campus.
- c) Annual plantation programmes are organized in the college to increase the greenery of the campus.
- d) The college lays effort in harnessing renewable and alternate source of energy informs of solar energy and rainwater harvesting.

2. Innovations

- a) SMART Classes have been introduced from 2011 in different science departments.
- b) Central Library upgraded with the installation of UGC Inlibnet.
- c) On line transparent admission through bank e-connect has been partially introduced from 2013 and completely from 2015.

SWOC

STRENGTH, WEAKNESS, OPPORTUNITIES, CHALLENGE (SWOC)

STRENGTH

- Bidhannagar College, a co-educational government institution, was established in 1984 with the specific aim of providing quality education to students of Salt Lake and its adjoining areas. Bidhannagar College is situated in a prime location in Salt Lake, with a sprawling compound, a beautiful garden, a large play-ground and an imposing building. A new six-storey building is constructed which will meet the increasing demand for space.
- The college was originally affiliated to Calcutta University. After the West Bengal State University was set up, comprising colleges in the district of North 24-Parganas, Bidhannagar College, by virtue of its administrative location, became affiliated to it. The college takes pride in being accessible to students from Kolkata as well as from suburbs and rural areas.
- The college which had begun with a handful of courses now boasts of 16 undergraduate and 3 post-graduate departments. The college is proud of the achievements of its students in various academic and cultural fields. Our present students are a source of satisfaction for us as well and consistently perform well in different academic and co-curricular fields.
- Bidhannagar College aims at all-round development of its students and provides a number of facilities for academic as well as co-curricular activities. Apart from the regular academic schedule, UGC-sponsored seminars, talks by eminent scholars and personalities, lectures by teachers with inter-disciplinary objectives, are organized throughout the year.
- Cultural programmes are organized on different occasions such as Independence Day, Republic day, Rabindra Jayanti, Basanta Utsav, Bhasadibos etc. in which students, teachers and non-teaching staff members participate whole-heartedly. The Students' Union holds an annual fest, *Dhun*, which is very popular among the student fraternity in the city.
- To encourage students to excel in academics, a number of programmes and prizes offered. The Chanchal Brahma Endowment Fund awards student who scores the highest marks in English Honours, Endowment Prize sponsored by Prof. Sudhin Debnath student who score the highest marks in Bengali Honours and Ashutosh Das Memorial Prize awarded to student who score the highest marks in Mathematics Honours.
- The college library which is recently shifted to the new building is a rich store of texts and advanced reference books catering to the need of students and teachers alike. Besides, every department has its own Seminar/departmental library which students and teachers can use freely. The teacher in charge of each departmental library helps students in selecting books and offers advice whenever needed. This provides great scope for bonding between teachers and students.

- The needs of individual students are addressed in the course of the mid-term and annual/Test examinations of the college and the parent-teacher meetings which follow.
- Bidhannagar College also offers subsidiary courses such as Computer training under NIELIT, under Government of India and NET-SET Coaching Programme in sponsored by UGC.
- The NSS unit of the college works actively towards arousing social awareness programmes such as Blood Donation Camps, Blood Group testing, Eye-Camps, and so on.
- Bidhannagar College students magazine published at intervals is very popular with enthusiastic contributions from students from all disciplines. Besides this, every department has its own wall-magazine which is prepared with great gusto by students and helps in inculcating values of friendship and co-operation, apart from show-casing their talents.
- The sprawling play-ground is one of the attractions of Bidhannagar College. The Annual Sports Day witnesses enthusiastic participation from students as well as teachers. Facilities for outdoor as well as indoor games are available within the college. Inter-departmental and Inter-college Table-tennis, carrom competitions are regularly held, apart from outdoor games such as Badminton and Cricket.
- The college has a newly built multifaceted gymnasium with modern equipments where students and teachers can exercise in their free time for 'a sound mind in a sound body'.
- The Career-Counseling Cell of the college works actively in the college under the Teachers Council and a number of programmes are organized by different agencies, firms and business houses for providing our students with different career-options.
- Bidhannagar College has an anti-ragging cell and it is a matter of pride that the college has never witnessed any unpleasant episode. Also, a women's Grievance complaint box is installed as per UGC norms, according to Visakha Guidelines. However, the process of formation of Internal Complaints Committee is on and it is to be operative any time.
- The college possesses a LAN-controlled networking facility. Besides this, Broad Band Connections with unlimited download facility, sponsored by the MHRD, Government of India has been set up for academic and administrative use. With financial assistance from the UGC as a NAAC accredited science teaching college, an 8-KW solar panel has been installed by WBREDA.
- In 2006, Bidhannagar College was accredited with B++ grade by NAAC. In 2012, the college was granted financial support by the Department of Science and Technology on

the recommendations of the FIST Advisory Board (FISTAB), for further improvement of Biological Science Departments in the College.

WEAKNESS

- A number of vacant non-teaching posts need to be filled up as soon as possible for academic and administrative interests of the college.
- The lack of autonomy in the formulation of the undergraduate syllabus often acts as a stumbling block, preventing innovative and research oriented approaches to teaching.
- The dependence on government agencies, such as PWD for development and maintenance work, prevents effective and quick solutions to problems.
- Inadequate funds for books and equipment in recent times hampers teaching and research.

OPPORTUNITY

- Bidhannagar College has a dedicated and committed work force. Teachers and staff of the college work together with the students for social and academic causes. Teachers and students work in close communion for academic and co-curricular excellence. Our students participate in various inter-department and inter-college competitions and events.
- The college has a congenial atmosphere for the fostering of academic and social interests
- Students of Bidhannagar College perform very well in the University examinations and display deep interest in research oriented studies.
- Teachers of the college are actively involved in research and advanced studies and have a number of ongoing or recently submitted minor as well as major research projects funded by UGC and other funding agencies. At the same time, primary attention is placed on training our students for a bright future in academics and other areas.
- Computer training as well as NET-SET coaching is offered in the college. We encourage our students to adopt a holistic approach towards education and appear in various competitive examinations pertaining to research, administration, and so on.
- Interdisciplinary studies are greatly encouraged. Faculties of the Statistics Department deliver lectures to students of the Education Department as well as Faculty from Economics department deliver lecture in Zoology department.. Lectures on contemporary academic issues, such as the Higgs-Boson principle or 'Myth and Reality', or history of scientific advancement, are organized regularly and attended by students and teachers of different departments and also, other colleges.

- The college library is being shifted to the new six-storey building with a vision to set up a digitized and open access system with a big reading room infrastructure. Besides, students are always free to use the departmental/seminar library and books are requisitioned from the central library for their use.
- BNC has a subsidized canteen, offering a variety of food items prepared in a hygienic and healthy manner. It is of particular help to those who have to commute long distances to reach college.
- The NSS unit of the college aims at creating social awareness among students through programmes such as Blood Donation camps, health awareness camps, College Cleaning operations and so on.

CHALLENGE

- Bidhannagar College, a relatively 'young' government institution, not having a very old tradition to fall back upon, aims at paving the path for a bright and glorious future on the resources of the present. Bidhannagar College is rich in human resources, with its dedicated band of staff and students. Its location and area is also enviable.
- The college has a whole new range of unconventional courses such as Anthropology Honours, as well as post graduate studies in Micro-Biology, Chemistry, and Zoology. Honours courses in Earth Science, Physiology and Sociology are to be introduced in the near future.
- Although there are a number of computers for the use of students, a computer laboratory is being set up in the new building infrastructure. Internet facility is already available with multiple Broad Band connections.
- Our students perform very well in the University examinations in general. But our aim is not only to nurture bright talents but also to help weaker students to perform better. Special classes for revision and practice are conducted for this. Our aim is to maintain a high academic standard in general, while at the same time encouraging bright students to perform even better.
- Owing to its location on the fringes of N. 24 Parganas the college caters to the needs of not only urban students but also those from rural and semi urban areas, who have to commute long distances. Providing subsidized accommodation for boys and girls is an urgent need for this government institution.

Bidhannagar College aims to produce students with high academic capabilities as well as a sense of social responsibility. We want our students to embark on a future 'where the mind is without fear and the head is held high.

**PROFILE OF
THE COLLEGE**

PROFILE OF THE COLLEGE

1. NAME AND ADDRESS OF THE COLLEGE:

Name: **BIDHANNAGAR COLLEGE**

Address: **EB-2, Sector I, Salt Lake, Kolkata – 700064, West Bengal, India**

Website: www.bidhannagarcollege.org

2. FOR COMMUNICATION:

SL. No.	NAME	DESIGNATION	TELEPHONE	MOBILE	FAX	E-MAIL
1	Dr. Subhas Chandra Jana	Officer-in-Charge	03323374782	9830072356	03323374782	subhasjana1959@gmail.com
2	Dr. Sankha Priya Guha	Co-Ordinator NAAC Steering Committee	03325228961	9831470906	-----	spgwbes@gmail.com

3. STATUS OF THE INSTITUTION:

- a. **Affiliated College** -----
- b. **Constituent College**
- c. **Any other (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. IS IT A RECOGNIZED MINORITY INSTITUTION?

Yes

No -----

If yes specify the minority status (Religious/linguistic/ any other) and provide documentary evidence: -- NOT APPLICABLE

6. SOURCE OF FUNDING:

Government ----- ✓
 Grant-in-aid
 Self-financing
 Any other

7. a. **Date of Establishment of the College:** 25/06/1984

b. **University to which the College is Affiliated:** WEST BENGAL STATE UNIVERSITY

c. **Details of UGC Recognition:**

Under Section	Date, Month & Year (dd-mm-yyyy)	Remarks (If any)
i. 2 (f)	13-09-1997	
ii. 12 (B) 17.6.1972	11-01-1997	

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

d. **Details of recognition/approval by statutory/regulatory bodies other than UGC (AICTE, ICSSR, NCTE, MCI, DCI, PCI, RCI etc.):** -- NOT APPLICABLE

8. DOES THE AFFILIATING UNIVERSITY ACT PROVIDE FOR CONFERMENT OF AUTONOMY (AS RECOGNIZED BY THE UGC), ON ITS AFFILIATED COLLEGES?

Yes

No ----- ✓

* Partial Autonomy granted to PG Courses.

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

- **Name of the agency:** Department of Science & Technology, Govt. of India
– FIST Program
- **Dates of Recognition (Sanction Order No. & Date):** SR/FSR/College-122/2012(C)
30th Sept, 2013

10. LOCATION OF THE CAMPUS AND AREA IN SQ. MTS:

LOCATION*	URBAN
Campus area in sq. mts.	30351.45 sq. mts.
Built up area in sq. mts	2074 sq. mts. (constructed area)

* Urban Area

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 - 1[#] (One)**
To be setup in the New Administrative Building (Yet to be operative)

❖ **Sports facilities**

- ⊙ Play Ground - ✓ 1 (One)
- ⊙ Swimming Pool - NIL
- ⊙ Gymnasium - 1 (One)

❖ **Hostel**

- ⊙ **Boys' Hostel - NIL[#]**
- ⊙ **Girls' Hostel - NIL[#]**
- ⊙ **Working Women's Hostel - NIL[#]**

#planned and requested to Higher Education Department for approval

- ❖ **Residential facilities for teaching and non-teaching staff:** Govt. quarters are available for teaching and non-teaching staff as employees of the Govt. of West Bengal. Moreover, a single building for residence of some of the non-teaching staff is available. Present status of availing the residential facilities is as below:

No. of Teachers: 07

No. of Non-teaching staffs: 02

- ❖ **Cafeteria** - 1 (One)

- ❖ **Health Centre** - NIL

- ⊙ **Health centre staff** – NA
- ⊙ **Qualified Doctor Full time / Part-time** -- NA
- ⊙ **Qualified Nurse Full time / Part-time** -- NA

- ❖ **Facilities like banking, post office, book shops :** NO
- ❖ **Transport facilities to cater to the needs of students and staff:** NO
- ❖ **Animal house :** NO
- ❖ **Biological waste disposal :** YES
- ❖ **Generator or other facility for management/regulation of electricity and voltage:** NO
- ❖ **Solid waste management facility:** NO
- ❖ **Waste water management:** NO
- ❖ **Water harvesting:** YES

12. DETAILS OF PROGRAMMES OFFERED BY THE COLLEGE (GIVE DATA FOR CURRENT ACADEMIC YEAR 2015-2016):

Sl. No.	Program Level	Name of the Program / Course	Duration	Entry Qualification	Medium of Instruction	Sanctioned/ Approved Student strength	No. of students admitted
1.	Under-Graduate (Honours Subjects)	English Bengali Political Science History Philosophy Education Economics Physics Chemistry Mathematics Zoology Statistics Botany Microbiology Anthropology Geography	3 yrs. for all the subjects	10+2 Level, WBCHSE, ISC, CBSE etc	English & Bengali	53 53 53 53 53 27 53 53 53 53 37 32 32 29 24 32	44 43 36 15 05 09 07 41 40 18 20 10 17 18 19 27
2.	Post-Graduate	Microbiology Zoology Chemistry	2 years (4 Semester)	B.Sc. (Hons.)	English	23 23 33	22 22 31
3.	Integrated Programmes PG	NIL					
4.	Ph.D.	Micro Biology	5 years	M.Sc.	English		04
5.	M.Phil.	NIL					
6.	Certificate Courses	NIL					
7.	UG Diploma	NIL					

13. DOES THE COLLEGE OFFER SELF-FINANCED PROGRAMMES?

Yes

No ----- √

14. NEW PROGRAMMES INTRODUCED IN THE COLLEGE DURING THE LAST FIVE YEARS IF ANY?

Yes ----- √
No

Number - 3 (Honours in Geography, PG in Chemistry, UGC – NET – SET Training Program)

15. LIST THE DEPARTMENTS:

Particulars	UG	PG	Research
Science	Honours & General Courses in: Physics, Chemistry, Mathematics, Statistics, Botany, Microbiology [#] , Zoology, Anthropology [#] , Economics & Geography [#] . [#] General Courses not offered for Microbiology, Anthropology & Geography	Zoology, Microbiology Chemistry	Zoology, Microbiology, Chemistry
Arts	Honours & General Courses in English, Bengali, Political Science, Education [#] , History & Philosophy. [#] General Course is not offered for Education	Nil	Nil
Commerce	Not Offered		
Any Other not covered above Certificate UG and PG Diploma		Zoology under NSOU	

16. NUMBER OF PROGRAMMES OFFERED UNDER DEGREE COURSE B.A., B.Sc., M.Sc.:

- ❖ Annual System : 16 (All the 16 UG Program)
- ❖ Semester System 03 (All the 3 PG Programs)

17. NUMBER OF PROGRAMMES WITH

- ❖ Choice Based Credit System - NIL
- ❖ Inter/Multidisciplinary Approach - NIL
- ❖ Any other (specify and provide details) - NIL

18. DOES THE COLLEGE OFFER UG AND/OR PG PROGRAMMES IN TEACHER EDUCATION?

Yes

No ----- √

19. DOES THE COLLEGE OFFER UG OR PG PROGRAMME IN PHYSICAL EDUCATION?

Yes

No ----- √

20. NUMBER OF TEACHING AND NON-TEACHING POSITIONS IN THE INSTITUTION:

Positions	Teaching Faculty			Part Time Teacher (PTT)/Guest Lecturer (GL)	Non-teaching Staff	Technical Staff
	Professor	Associate Professor	Assistant Professor			
	M*/ F*	M / F	M / F	M / F	M / F	M / F
Sanctioned by the UGC / University / State Government (Recruited)	1/0	27/14	36/19	20/02	12/02	11/02
Yet to recruit	04	NA	10	NA	03	11= 9+2 (Deputation)
Sanctioned by the Management / society or other authorized bodies Recruited	NA	NA	NA	NA	NA	NA
Yet to recruit	NA	NA	NA	NA	NA	NA

*M – Male; *F - Female; Data as on 01-7-2016.

21. QUALIFICATIONS OF THE TEACHING STAFF:**(as on 01.07.2016)**

Highest Qualification	Professor		Associate Professor		Assistant Professor		Total
	M	F	M	F	M	F	
Permanent Teachers							
D.Sc./D.Litt.	0	0	0	0	0	0	0
Ph.D.	1	0	19	11	19	06	56
M.Phil.	0	0	03	03	03	06	15
PG	0	0	07	00	16	07	30
TOTAL	1	0	29	14	38	19	101
Part-time Teachers / Guest Lecturer (GL)							
	M			F			
D.Sc./D.Litt.	0			0			0
Ph.D.	3			0			3
M.Phil.	0			1			1
PG	0			0			0

Data as on 01-7-2016

- (1) Recruitment and retention of permanent teachers do not come under the purview of the Institution as it does not enjoy full autonomy but comes under the Higher Education Department, Government of West Bengal.
- (2) The College does not have any prerogative to allow 'temporary' status to teachers. In PG departments, Guest Lecturers deliver special Semester-wise lectures as per demands of students in particular year. This number is flexible and varies from Semester to Semester.

22. NUMBER OF VISITING FACULTY / GUEST FACULTY ENGAGED WITH THE COLLEGE: 22 (in the session 2015-16)**23. NUMBER OF THE STUDENTS ADMITTED TO THE COLLEGE DURING THE LAST FOUR ACADEMIC YEARS:**

Categories	Year 1 (2011-12)		Year 2 (2012-13)		Year 3 (2013-14)		Year 4 (2014-15)	
	M	F	M	F	M	F	M	F
SC	28	38	27	37	49	28	37	23
ST	02	03	03	03	03	02	02	05
OBC	06	08	28	11	15	05	15	05
GENERAL	111	119	139	136	146	142	145	143
Others	0	0	0	0	0	0	0	0
Total	147	168	197	187	213	177	199	176

24. DETAILS ON STUDENTS ENROLLMENT IN THE COLLEGE DURING THE CURRENT ACADEMIC YEAR:

Type of students	UG	PG	PG Diploma	M. Phil	Ph.D.	Total
Students from the same state where the college is located	364	75	NA	NA	04	441
Students from other states of India	05	NIL	NA	NA	NIL	05
NRI students	NIL	NIL	NA	NA	NIL	NIL
Foreign students	NIL	NIL	NA	NA	NIL	NIL
Total	369	75	NA	NA	04	446

25. DROPOUT RATE IN UG AND PG (AVERAGE OF THE LAST TWO BATCHES):

- ❖ UG = 46.36 %
- ❖ PG = 0.0 %

26. UNIT COST OF EDUCATION: (Unit cost = total annual recurring expenditure (actual) divided by total number of students enrolled)

- ❖ Including the Salary Component = Rs. 89206
- ❖ Excluding the Salary Component = Rs. 2604

27. DOES THE COLLEGE OFFER ANY PROGRAMME(S) IN DISTANCE EDUCATION MODE (DEP)?

Yes ----- √

No

- ❖ **Is it a registered centre for offering distance education programmes of another University:**

Yes ----- √

No

- ❖ **Name of the University which has granted such registration:**

Netaji Subhas Open University

- ❖ **Number of programmes offered:** 01 (PG in Zoology)

❖ **Programmes carry the recognition of the Distance Education Council:**

Yes ----- ✓

No

28. TEACHER-STUDENT RATIO FOR EACH OF THE PROGRAMME COURSE OFFERED IN THE SESSION (2014-15):

Subject	Course	Teacher/Student Ratio
Bengali	UG (Honours)	06/52
Education	UG (Honours)	03/41
English	UG (Honours)	04/107
History	UG (Honours)	04/38
Philosophy	UG (Honours)	05/18
Pol. Science	UG (Honours)	06/28
Anthropology	UG (Honours)	04/35
Botany	UG (Honours)	06/51
Chemistry	UG (Honours)	07/62
Chemistry	PG	07/53
Economics	UG (Honours)	05/20
Geography	UG (Honours)	05/56
Mathematics	UG (Honours)	03/50
Microbiology	UG (Honours)	(5) /38
Microbiology	PG	(5) /32
Physics	UG (Honours)	05/67
Statistics	UG (Honours)	05/40
Zoology	UG (Honours)	07/58
Zoology	PG	07/41

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 21.05.2006 (dd/mm/yyyy) .. Accreditation Outcome/Result

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

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

* Kindly enclose copy of accreditation certificate(s) and peer team report(s) as an annexure.

(Enclosed in Annexure 2)

31. NUMBER OF WORKING DAYS DURING THE LAST ACADEMIC YEAR:

198 days (= 365 days – 115 Holidays -52 Sundays)

32. NUMBER OF TEACHING DAYS DURING THE LAST ACADEMIC YEAR:

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

182 days

33. DATE OF ESTABLISHMENT OF INTERNAL QUALITY ASSURANCE CELL (IQAC):

IQAC 29/01/2013 (dd/mm/yyyy)

34. DETAILS REGARDING SUBMISSION OF ANNUAL QUALITY ASSURANCE REPORTS (AQAR) TO NAAC:

- i. AQAR, 2014-15 submitted on 23/12/2015, Revised AQAR, 2014-15 submitted on 17/3/2016
- ii. AQAR, 2013-14 submitted on 17/3/2016
- iii. AQAR, 2012-13 submitted on 17/3/2016
- iv. AQAR, 2011-12 submitted on 17/3/2016
- v. AQAR, 2010-11 submitted on 17/3/2016

35. ANY OTHER RELEVANT DATA (NOT COVERED ABOVE) THE COLLEGE WOULD LIKE TO INCLUDE:

NONE



Photograph 1.1: Satellite View of Bidhannagar College Campus

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.

Bidhannagar College is committed to its goal of imparting all-round education to its students. Our students are inspired to work for the betterment of society along with developing their individual talents and learning the right values.

These objectives are communicated through the Prospectus, Students' Orientation Programmes and personal guidance by teachers and through Parent-teacher meetings and inter-active sessions with all members of the college.

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).

The institution follows the curriculum set by its affiliating university (West Bengal State University) in all its undergraduate courses. However, Postgraduate courses are autonomous in status and therefore the curriculum is set by the Board of Studies of respective Departments.

Class tests, mid-term tests and selection tests are held to monitor and assess the performance of the students.

Mid-term and Selection tests are structured according to the format of the university examinations so that students are well rehearsed in the system of university examinations well ahead.

Practical classes and mock tests are carried out by laboratory based departments to build confidence among students.

Excursions and educational tours are organized regularly to help students gain exposure and practical experience.

Students are encouraged to participate in Mock-Parliament programmes and essay competitions organized by the Department of Higher Education.

Compulsory computer training is given to all students on joining the college to ensure general e-literacy.

Students are encouraged to present papers at student-seminars and contribute to the college magazine and other journals.

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 affiliating university circulates all information regarding curricula through circulars and notices on the web-site.

Teachers are invited to participate in workshops on syllabus and examination norms. Teachers are particularly alert regarding changes in syllabus and examination format—WBSU has initiated frequent changes in its assessment pattern and in the syllabus, especially in English. Students are duly informed and prepared for these changes.

Teachers try to inject as much novelty and interest as possible within the given format set by the university without deviating from the general mode.

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.

Since the college is bound to follow the syllabus and examination pattern fixed by the university, it is not possible to introduce changes in the set courses. However, efforts are made to offer new perspectives for study to our students so that they gain a deeper and wider concept of the subject which can help them in deciding their research options in the future.

Teaching in Bidhannagar College is not limited to narrow text-centered objectives. Students are encouraged to refer to books of criticism and theory beyond the basic prescribed text. Seminar lectures by eminent scholars from different institutions are organized to give a wider perspective to our students as well as to encourage inter-disciplinary interests.

Although it is not possible to deviate from the university –prescribed syllabus at the undergraduate level, there is scope for innovation and autonomy at the postgraduate level. The postgraduate departments (Zoology, Micro-Biology and Chemistry) prepare their own syllabi in consultation with eminent members of the Boards of Studies, which contain aspects not yet included in the university Postgraduate syllabi.

A variety of optional papers are offered with a view to enlarge the scope of exploration in a subject. For example,

In Chemistry ----	Organic, Inorganic, Physical
In Microbiology -----	Projects with (Industrial microbiology, Medical microbiology, Environmental microbiology, Food microbiology, Agricultural microbiology, Immunology, Molecular biology, Phycology)
In Zoology -----	Cytogenetics & Molecular Biology; Ecology and Environmental Science

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

Different departments organize educational tours as well as invite different industrial/business establishments for inter-active sessions with students. Also, teachers and students actively participate in seminars and conferences organized by different universities and research institutions.

Collaborative research with different organizations and institutions is carried out.

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, stakeholder feedback provided, specific suggestions etc.

A number of teachers are members of the Board of Studies of different subjects in the University. Teachers from Political Science, Philosophy, Anthropology, Bengali, Microbiology and other departments are members of the Board of Studies. And Teachers of the postgraduate departments in the college are members of the Board of studies.

Members of Board of Studies of different subjects in the university play an active role in the framing of the syllabus and deciding upon the assessment system.

A number of teachers act as Head Examiners in different subjects in university examinations at the undergraduate level.

Table 1.1: List of Members in Under Graduate & Post Graduate Board of Studies

DEPARTMENT	BOS members in UG	BOS members in PG
Anthropology	Dr. Sankha Priya Guha (2009-11) [WBSU]	NA
Bengali	Dr. Tapasree Chatterjee, WBSU	NA
Botany		Dr. Shyamal Kumar Chakraborty - (2011-14) Barasat Govt College
Chemistry	Prof. A.K. Sarkar [University of Calcutta]	<ul style="list-style-type: none"> • Prof. A.K. Sarkar • Nikhil Ranjan Pramanik • Sucheta Singha (Chandra) • GoutamKumar Mondal • Narayan Chandra Bar • Asim Kumar Majee • Subhas Chandra Maity • Kaushik Maji • Anisur Rahaman Molla. • Arabinda Mandal • Shubhankar Samanta • Susanta Kumar Manna • Tirtha Pada Majhi • Rituparna Biswas

Microbiology	Dr. Subhas Chandra Jana, WBSU	<ul style="list-style-type: none"> • Dr. Subhas Chandra Jana • Dr. Abul Kalam • Dr. Sandip Bandopadhyay • Dr. Masrur Alam
Philosophy	Sewli Das (Karmakar)	NA
Physics	Arun Kumar Jana, WBSU	NA
Political Science	S.J. Siddiqi Saibal Gupta	NA
Statistics	Dr. Ajoy Kumar Biswas, WBSU Arup Kumar Hait, WBSU	NA
Zoology		<ul style="list-style-type: none"> • Ranajit Karmakar • Saurabh Chakraborty

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 college does not have the scope to influence policy matters of the affiliating university regarding undergraduate studies.

However, the college conducts computer training classes in association with NIELIT, with government permission.

Postgraduate departments enjoy academic autonomy and frame its own syllabus’. The members of the Post Graduate Board of Studies (both Internal and External members) sit together to design, develop and plan its own syllabus consulting UGC-master curriculum framework as well as syllabus of the different Universities of repute and on the basis of ‘need assessment’ of the students.

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

The stated objectives of the curriculum are implemented through class teachings and regular assessment of students’ activities. Departmental meetings are held to distribute the syllabus among teachers and to discuss the performance of students in tests held individually by teachers. Centrally conducted tests (mid-term and selection) are held each year for all the three undergraduate year students followed by result-consideration meetings of the Teachers’ Council. The performance of students of all the departments is discussed, ensuring a uniform mode of assessment for all students. If necessary, supplementary tests are held with the concurrence of all teachers.

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 Institution has its focus on holistic development of its pupils with special emphasis on higher education. Accordingly, the institution has arrangements for the following programmes in this regard.

The Institution runs a UGC sponsored NET – SET coaching programme with special emphasis on the minority students.

NIELIT provides free and compulsory computer training to the students and staffs of the college.

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

No, the Institution does not offer any programme that facilitates twinning / dual degree.

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 College has Core options at the UG level in English, Bengali, History, Philosophy, Political Science, and Education in Arts.

In Science its Core options include Anthropology, Botany, Chemistry, Economics, Geography, Mathematics, Microbiology, Physics, Statistics and Zoology,

• Choice Based Credit System and range of subject options

- The West Bengal State University, Barasat does not allow choice-based credit system at Undergraduate level.
- The Autonomous PG courses offer choice based credit system in case of optional courses.

• Courses offered in modular form

- The Post Graduation courses in Chemistry, Microbiology and Zoology are divided up into separate sections according to the semester pattern.

• Credit transfer and accumulation facility

- The West Bengal State University, Barasat, does not allow credit transfer and accumulation facility between institutions or courses between institutions.

• **Lateral and vertical mobility within and across programmes and courses.**

- West Bengal State University, Barasat does not permit its affiliated institutions like Bidhannagar College for Lateral and Vertical Mobility within and across programmes and courses. The College organizes open ended seminars encouraging students and teachers of other disciplines to attend and take part in interactive sessions. This is an initiative to disseminate a wider range of knowledge despite the restrictions of the University.

• **Enrichment courses**

- The College organizes programmes under NSS schemes related to value education, health issues and other programmes related to applied level knowledge and skill with primary focus on enrichment of young minds.

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.

The Institution being a Government Institution does not offer any self financed programmes. All the curriculums are it Under Graduate or Post Graduate or other Training Programmes are either West Bengal State Government or UGC sponsored.

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 does not provide any additional skill oriented programmes relevant to regional and 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?

No, West Bengal State University Barasat does not 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

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 first and foremost stress in this regard is given in the context of Teaching Methodology. With personal level teacher student interaction the academic programmes and Institution's goals and objectives of a greater ambit is focused on.
- Students are constantly exposed to inter and intra departmental seminars and library facilities within and beyond the college premises which help them to move beyond the limits of the syllabus.
- The syllabus made by the Post Graduate Departments in the Institution on the basis of Academic autonomy takes care of new ideologies, methodologies and application in a greater horizon to match today's needs.

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?

- West Bengal State University under which Bidhannagar College is affiliated has its limitation when it comes to enriching and organizing the curriculum at the Undergraduate level. However, there is a distinct Placement and Career Counseling Committee in the Institution under the Teachers Council which arranges for the Career Counseling and job placement interaction cutting across the disciplines. Moreover, the College makes an attempt to orient young minds to sharpen focus, select targets and sustain focus. These are some of the skills needed in the employment world. The College nurtures these qualities in its teaching methodology.
- The PG syllabi of at least three departments make use of the autonomous format to introduce courses driven by employment needs.

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?

- Gender studies is briefly introduced to the students of English (Honours) at Undergraduate level as per West Bengal State University, Barasat syllabus.
- Environmental Studies are part of the structured UG Compulsory Paper which all the Students of B.Sc and B.A has to study and appear in Examination. This paper includes topic related to Climate Change and Environmental Education.
- The Geography Department follows a syllabus that widely uses satellite imaging and GPS technology among other cutting edge tools. Their curriculum also includes a brief foray into Climate Change Issues.
- The Political Science Syllabus in Under Graduate (Honours) includes Human Rights and Public Administration.

- ICT based teaching is the norm in most science departments and extensive use of OHP and Laptop is commonplace. Smart boards are becoming more common. Extensive use of the Internet is also commonplace with regard to research. Computers are the normal mode for all research presentations by the students.

Further, Value Education programme is an annual fixture that exposes students to human rights, gender and environmental issues.

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

- **Moral and ethical values** - Programmes on Moral and Ethical Values are occasionally arranged by the NSS wing. Teachers make regular interaction with the students apprising them about issues of morals and ethics in everyday life. Department of Philosophy also imparts knowledge on morals and ethics to their students as per Undergraduate Honours Curriculum.
- **Employable and life skills**- Programmes related to health issues are occasionally organised by the NSS schemes.
- **Better career options** - Career fairs, placement seminars have been organized.
- **Community orientation**- NSS activities, Organization of Seminars & College fest are spaces for community orientation.
- **Psychological Counseling** The College has arranged for Psychological Counseling of late.

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

- In the context of enrichment of curriculum based on the feedback of stakeholders, it is needed to be said that the norms of the affiliating University, i.e. West Bengal State University, Barasat does not permit curriculum changes (be it in the form of enrichment) in this way.
- However, the College holds regular interactive parent-teacher-ward meets after every internal terminal examination to discuss areas of concern and collectively resolve the arising problems.
- Further the College students are encouraged to come up with any academic or personal problems standing in the way of their development. Formal and informal counseling are then provided, as well as the parents are kept notified in discreet fashion to minimize stress upon the ward.
- The Disciplinary Committee of the College responds to any report on the students' conduct and performance and immediately assembles to address the problem.

The aforesaid processes help the ward to cope with the University defined curriculum and hence feedback does not remain the only scope for enrichment of curriculum for the students rather a measure of easing out of curriculum in the eye of the student remain the only area of concern.

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

The Institution keeps a regular monitoring and evaluates the different enrichment programmes through the eyes of the administration. The Principal, Governing Body, IQAC and The Teachers Council actively contribute to this process. The different academic departments are acquainted with the different programmes and its situational implications on the life of the students. The Grievance Redressal Cell and a Box keep a regular vigil on different types of grievances arising within the premise of the college. NSS and other outreach programmes and community activities provide opportunity to monitor the quality of the enrichment programmes.

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?

- In context of UG curriculum for different disciplines - both Honours and General Degree courses - teachers of the College have been members of UG Board of Studies and accordingly has been contributing to the designing and development of curriculum of that particular discipline. Other than this, teachers of the college always respond actively to any call for workshop on change in syllabus.
- In context of the PG courses, the departments have autonomy to design and develop the curriculum and do the needful accordingly.

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?

There is a student feedback system in place. However the thrust area in the questionnaire is targeted at 3rd year students who are expected to put a comprehensive input in regard to the institution, and academics. The feedback system is kept under the custody of the Principal. Some of those feedback forms are read carefully (selected at random by the principal. and the areas of grievance, if any, with regard to application noted. Individual teachers have closed door sessions with the Principal if needed. However, the entire process is kept confidential.

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?

- Honours in Anthropology and Education in 2009.

- Honours in Geography in 2013.
- Post Graduation (Autonomous) in Chemistry in 2013.
- UGC sponsored NET-SET coaching programmes.

All the aforesaid programmes were initiated in the institution with the focus of providing multidisciplinary avenues for the students to be nurtured in. The professional programme has its objective set in providing academic visions to the students for the years to come.

CRITERION-II

TEACHING - LEARNING & 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?

The College lays its priority in ensuring admission to all deserving and meritorious students. For this, the College takes utmost care to ensure transparency in its admission process both in hard (Notice displayed in Notice Board) and soft version (College Website). The prospectus is made available to the students. All relevant information regarding the admission procedure, infrastructure, fee & scholarships, various activities of the college, achievements of the students in academic as well as sports and other activities is conveyed through the prospectus.

To ensure transparency in the admission process the College has made it mandatory for applications to be filed online since 2013-2014 academic session. The admission process is outsourced to WEBTECH in 2014-2015 session, who prepares the list according to the criterion set by the different departments of the College. For 2015-2016 session admission processes, Softlink Technologies carried out online admission form fill up, sorting and list preparation according to merit and tied up to ICICI bank for financial activities regarding admission. Admission is strictly based only on merit.

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) to various programmes of the Institution.

Criteria of Admission in Bidhannagar College are as follows:

- Admissions at the Undergraduate (Honours) level has its sole criteria on merit system. Admission criteria were relaxed for reserved categories in reference to Government rules.
- Each Department prepared its unique index and the list of admissible students was based on it. The index took into consideration the Board marks secured by the student (in the concerned subject or the related subject) and then applied the percentile method. On the basis of the marks obtained in the last examination i.e. Class XII School Leaving Examinations for admission at the Undergraduate level or the B.A/B.Sc. Results for the Post-graduate level.
- The Dept. of English on a single occasion (2013) has conducted admission test for admission to its Under-graduate course; hence in the case, a combination of merit and entrance test that is adopted by the department.
- All Post- graduate departments (Chemistry, Microbiology and Zoology) admit their students for the Post-graduate courses on the basis of marks obtained in respective honours subject in Undergraduate Honours Examination from West Bengal State University, Barasat. For the rest of the applying home university students and students from other universities, an entrance examination conducted by the respective departments occur to prepare the merit list based on the combination of marks in Undergraduate examination and admission test.

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.

Table 2.1: Admission in Undergraduate Course, 2015-2016

Percentage of marks for admission at entry level (Aggregate %)						
Subject	Maximum percentage			Minimum percentage		
	Bidhannagar College	Barasat Govt. College	Acharya Prafulla Chandra College	Bidhannagar College	Barasat Govt. College	Acharya Prafulla Chandra College
ANTHROPOLOGY	88	-	-	67	-	-
BENGALI	84	91	84	51	83	65
BOTANY	94	85	80	74	77	67
CHEMISTRY	96	93	86	63	86	74
ECONOMICS	93	79	75	72	60	60
EDUCATION	74	-	-	54	-	-
ENGLISH	91	93	87	62	86	72
GEOGRAPHY	89	94	90	65	85	80
HISTORY	88	85	80	50	78	66
MATHEMATICS	88	93	87	57	87	61
MICROBIOLOGY	92	-	-	78	-	-
PHILOSOPHY	74	83	76	60	78	64
PHYSICS	89	95	86	70	87	74
POLITICAL SCIENCE	82	77	75	62	72	63
STATISTICS	91	-	-	68	-	-
ZOOLOGY	91	89	85	60	85	68

Table 2.2: Admission in Postgraduate Course, 2014

Percentage of marks for admission at entry level (Aggregate %)						
Subject	Maximum percentage			Minimum percentage		
	Bidhannagar College	Barasat Govt. College	Govt. College	Bidhannagar College	Barasat Govt. College	Govt. College
CHEMISTRY	68	-	-	43	-	-
MICROBIOLOGY	74	-	-	58	-	-
ZOOLOGY	67	71	-	48	58	-

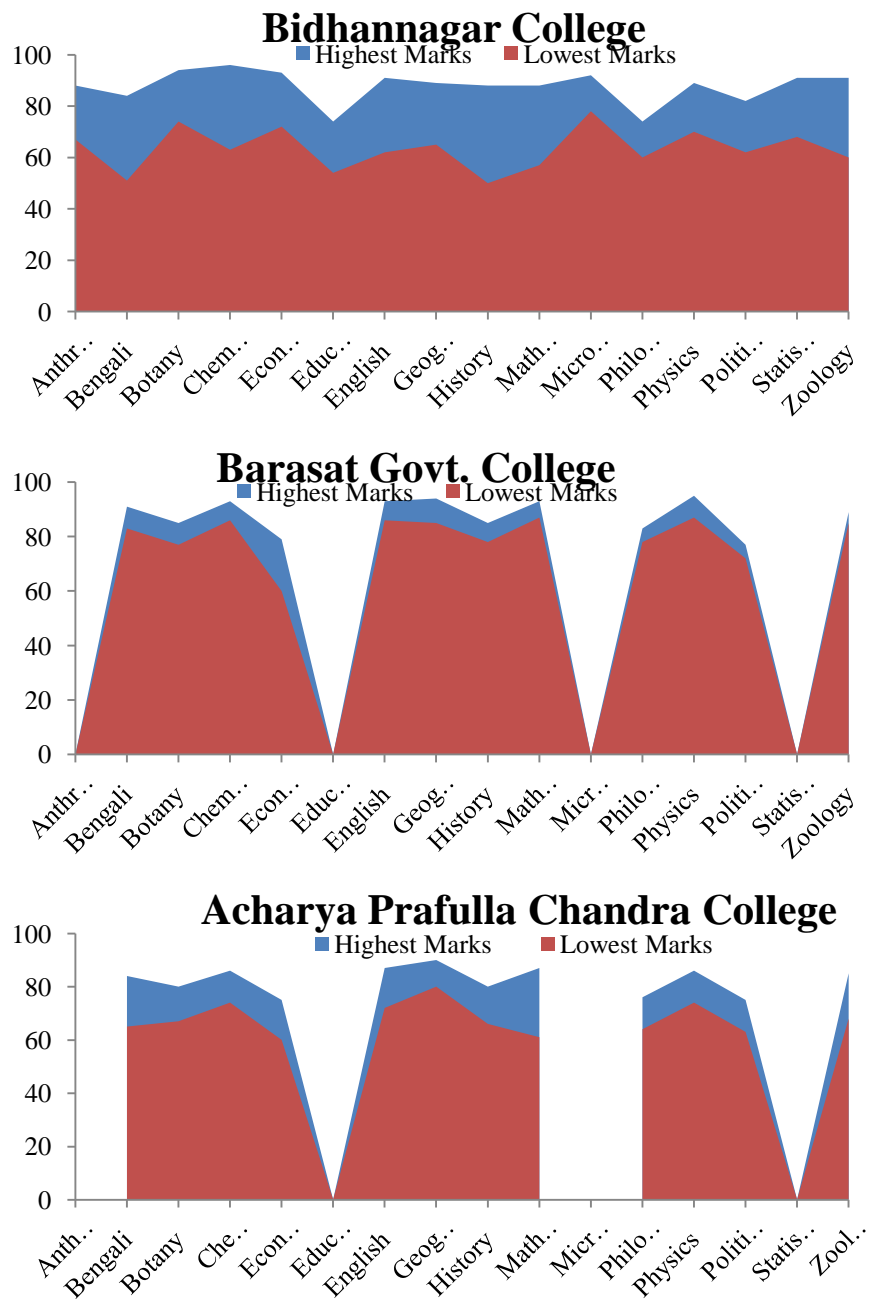


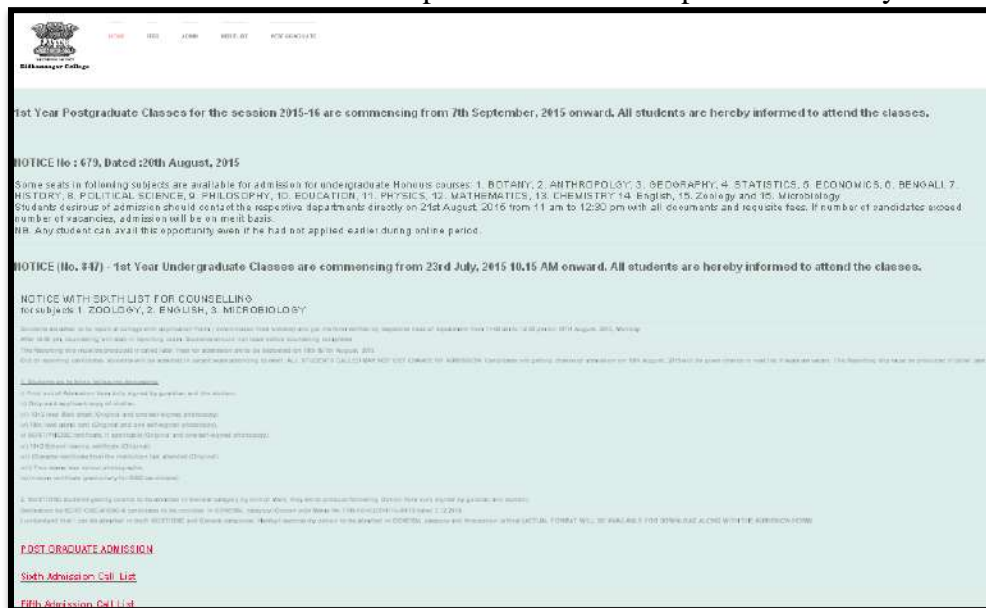
Figure 2.1: A comparative distribution of admitted student merit to different colleges in under-graduate

- The minimum and maximum percentage of marks at the entry level is not uniform because the demand and the scope of different subjects happen to be different.
- The present system of admission refers to Govt. and University guide lines with regard to reserved categories.
- Comparative distribution shows Bidhannagar College has students with different merit. It requires a great skill to teach such a varsity of merit under one umbrella.

- For Post Graduate admission other than University, there are not many colleges who run PG courses in these three subjects and each of them has different admission procedures. So there is no scope for a comparative inter college study with regard to PG admission.

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?

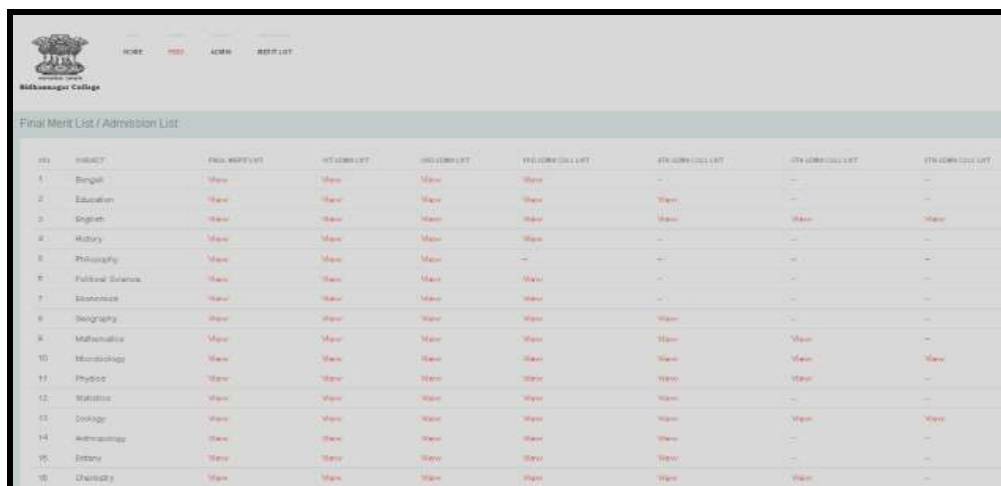
Yes, the institution reviews the admission process and student profiles annually.



Photograph 2.1: A part of student admission website displays necessary information

Bidhannagar College has an effective Admission Committee which reviews the admission process every year. The Principal and the Admission Committee sit the Heads of different departments in several consecutive meetings leading admission process with particular reference to the Admission criteria set by the West Bengal State University, Barasat and the Government of India & West Bengal rules. The admission committee took certain measures to give quality service to students and ensure a smooth and transparent admission process in academic session 2015-16. They are:

- All notifications related to admission are displayed in the College notice boards and are hosted in the website, which contains detailed information about number and range of courses, eligibility, process of admission etc.
- There is procedure for downloading admission Forms with unique ID No.
- Helpdesk by both teachers and students.
- Outsourced support for cash handling in the admission process and quick data gathering of the students admitted.
- Complete lists of all applicants according to merit hosted in the website.



Photograph 2.2: Student can check merit list through website

This review process helps in determining aptitude levels in each subject so that drop- out rate is minimized and the success rate in examination gets higher and failures are minimized.

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

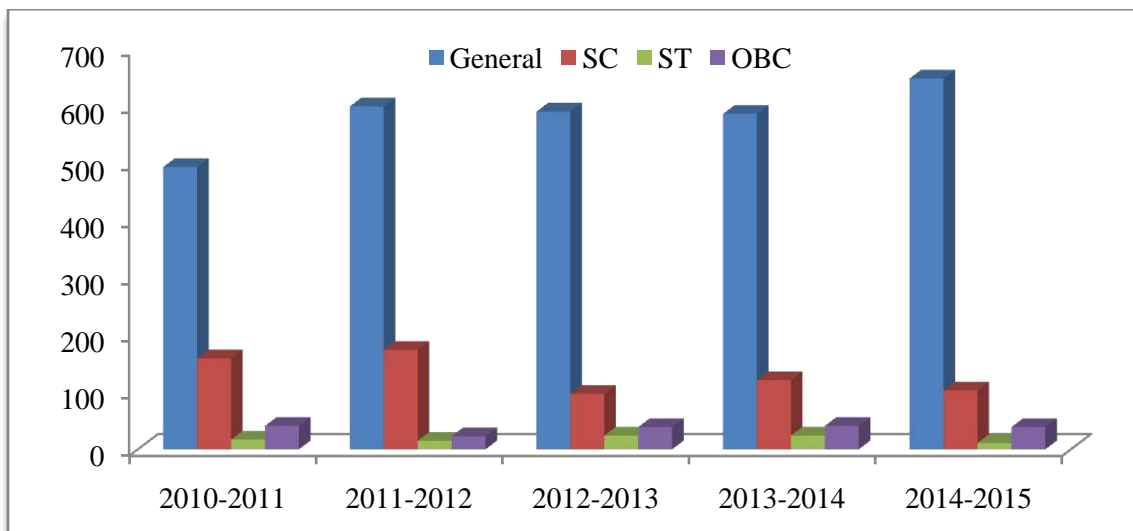


Figure 2.2 Socio diversity profile for students

- **SC/ ST:** The reservation policy of the Govt. of West Bengal is followed with respect to admission of SC/ST category which is 22 percent and 6 percent respectively.
- **OBC:** In 2014 the new policy of the Govt. of West Bengal is to increase the number of seats of OBC to 17 percent over a period of 6 years keeping the total number of seats (in General quota) intact. Bidhannagar College has reached the stage of reserving 17% of the seats for OBC in 2015 itself. Henceforth it is continuing with this reservation policy.
- **Women:** The College is a Co-educational institution and hence equal stress is given to encourage higher education for women. However, no separate reservation policy for

women exists. However, the “Kanyashree Prokolpo”, a grant disbursed by Government of West Bengal for Unmarried Women students is operating in the College.

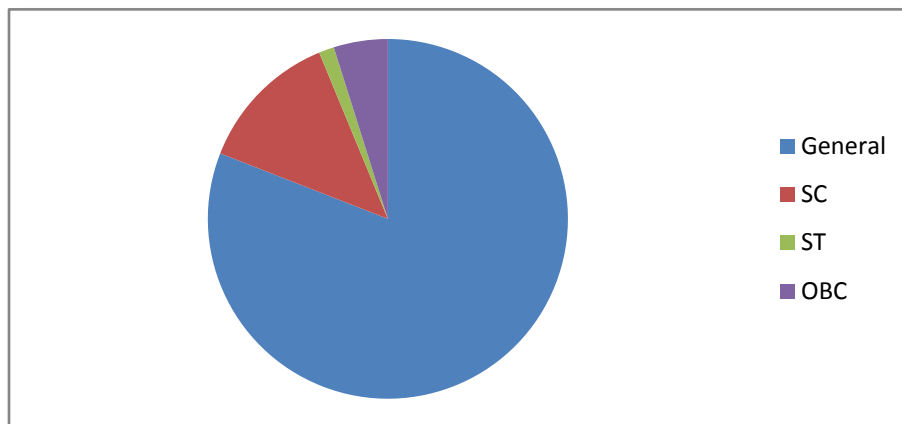


Figure 2.3 Social profile of students in 2014-15

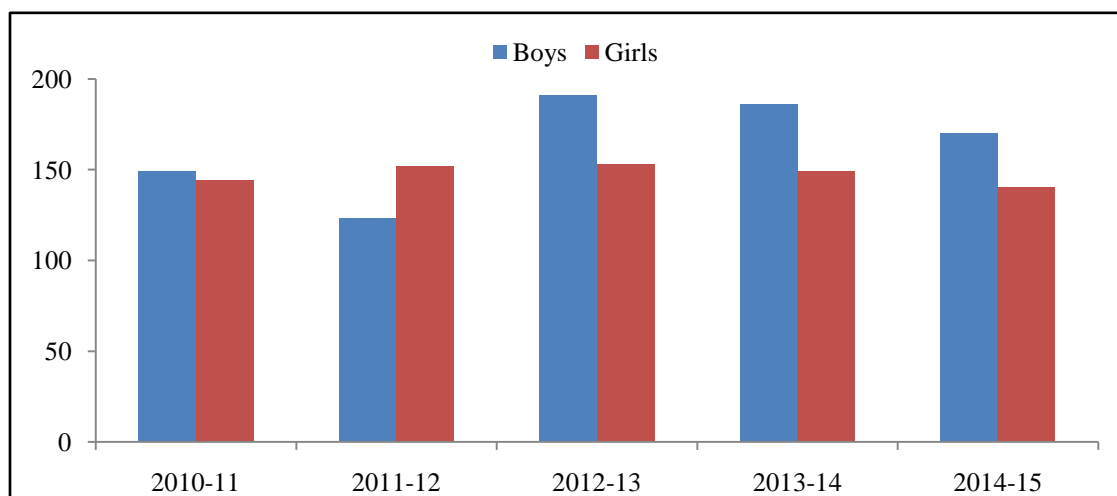


Figure 2.4 Gender profile for students admitted in 1st year

- **Differently- able students:** The College gives opportunity to disabled students both in regard to academic and infrastructural facilities if admitted.
- **Economically weaker section:** The College has several Committees, for example Student’s Aid Committee (under the Teachers Council) which disseminates information as well as grants related to various scholarships of the Govt. of West Bengal, Government of India to the students making them aware of such stipends. Various private and corporate house scholarships are also given to needy but meritorious students especially from economically weaker sections.
- **Minority Community:** The College regularly makes available various Govt. Funds/ Scholarships and Stipends to the students of the Minority Community. The College strictly follows the government’s reservation policy for SC/ST and OBC (Category A & Category B) and adheres to the government norms. Although there is no provision for

waiving of any fees at the time of admission for needy students yet the fees are highly subsidized as any comparative study with private institutions of similar standard will reveal. UGC- sponsored Coaching for NET-SET are organized for S.C., S.T. Minority and O.B.C. students of the college.

N.B.:

The present system of admission refers to Govt. and University guide lines with regard to reserved categories. However till 2013 colleges in West Bengal were allowed college specific cut off marks at the entry level correspondent to the demands of the concerned subjects. Hence there is no scope for a comparative inter college study with regard to admission.

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.

Programmes	Number of applications					Number of Seats					Demand Ratio				
	2011-2012	2012-2013	2013-2014	2014-2015	2015-2016	2011-2012	2012-2013	2013-2014	2014-2015	2015-2016	2011-2012	2012-2013	2013-2014	2014-2015	2015-2016
Under Graduate															
ANTHROPOLOGY	80	151	144	145	119	10	18	18	19	24	1:8	1:9	1:8	1:8	1:5
BENGALI	112	163	197	115	48	35	40	40	42	53	1:4	1:5	1:5	1:3	1:1
BOTANY	164	175	175	284	214	22	25	25	26	32	1:8	1:7	1:7	1:11	1:7
CHEMISTRY	529	513	600	524	410	35	40	40	42	53	1:16	1:13	1:15	1:13	1:8
ECONOMICS	241	153	280	136	130	35	40	40	45	53	1:7	1:4	1:7	1:4	1:3
EDUCATION	71	101	188	88	77	17	20	20	25	27	1:5	1:6	1:10	1:4	1:3
ENGLISH	519	922	721	772	669	35	40	40	42	53	1:15	1:24	1:19	1:19	1:13
GEOGRAPHY	-	-	483	588	217	-	-	30	32	32	-	-	1:17	1:19	1:7
HISTORY	236	121	280	72	94	35	40	40	43	53	1:7	1:4	1:7	1:2	1:2
MATHEMATICS	521	433	572	393	453	35	40	40	42	53	1:15	1:11	1:15	1:10	1:9
MICROBIOLOGY	308	369	330	531	475	20	22	22	23	29	1:16	1:17	1:15	1:24	1:17
PHILOSOPHY	239	104	279	37	38	35	40	40	44	53	1:7	1:3	1:7	1:1	1:1
PHYSICS	531	611	602	550	529	35	40	40	41	53	1:16	1:16	1:16	1:14	1:10
POL.SCIENCE	247	124	278	48	119	35	40	40	45	53	1:8	1:4	1:7	1:2	1:3
STATISTICS	149	175	175	166	214	20	25	25	27	32	1:8	1:7	1:7	1:7	1:7
ZOOLOGY	778	569	731	1321	706	25	28	28	30	37	1:32	1:21	1:27	1:45	1:20
Post Graduate															
CHEMISTRY	-	-	194	325	160	-	-	30	30	33	-	-	1:6	1:11	1:5
MICROBIOLOGY	280	300	300	144	83	20	20	20	20	23	1:14	1:15	1:15	1:7	1:4
ZOOLOGY	112	280	294	326	168	20	20	20	20	23	1:6	1:14	1:15	1:16	1:7

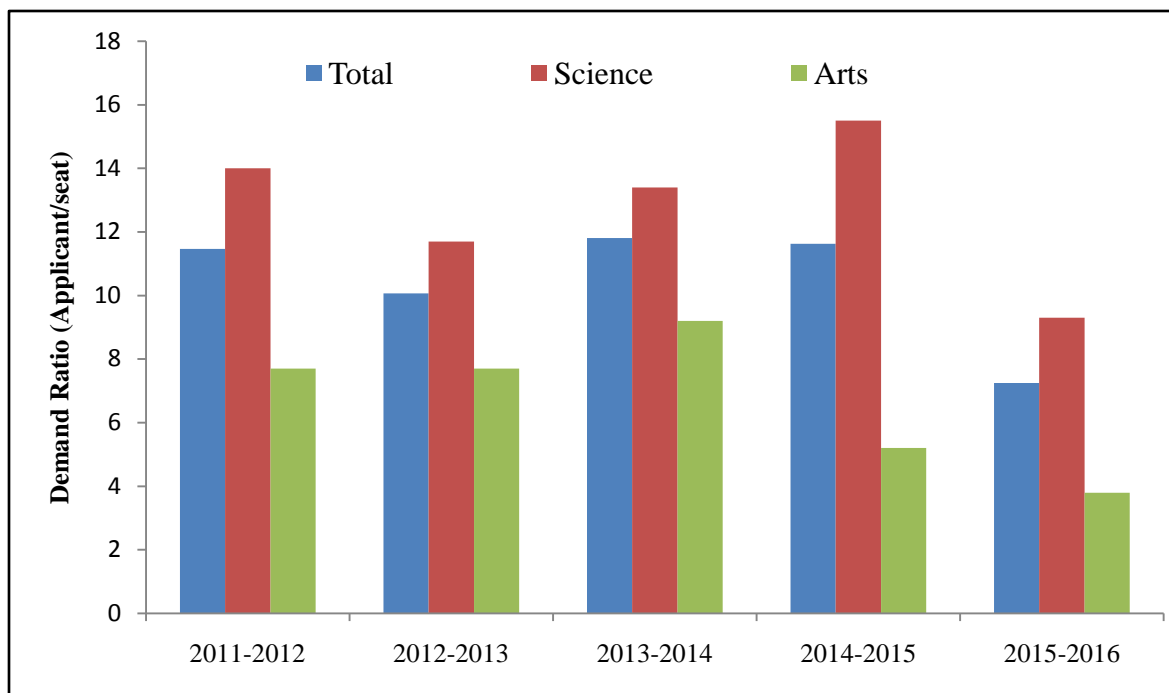


Figure 2.5 Schematic representation of demand ratio for different subject categories

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?

The College provides all forms of academic and administrative support to the differently-abled students as far as possible both in the context of Government rules and ergonomically compliance whenever needed. Teachers provide special care for their academic improvement and generation of interest.

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.

Yes. Bidhannagar College makes effort to assess the students' needs in terms of knowledge and skills before the commencement of the programme in two different ways. First, from the filled in application form for admission, information on the background of the students is sorted on both academic and personal ground. Prima facie information in terms of knowledge and skills of the students is acquired in this regard. Further, at the time of admission, both *Counseling Desk of Departmental Teachers* (where the student is to be admitted) as well as *Students' Help Desk* address the need of applicants and also answer their queries.

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?

- **Bridging**-- For bridging purpose, bilingual explanations strategies are taken in classroom lectures and discussions. Tutorial classes are arranged in all the departments. Faculty members of sit with students and orient them towards advanced learning.
- **Remedial**-- Academically weak students are identified secretly and special remedial classes are held in various subjects to help them.
- **Add-on & Enrichment**-- Bidhannagar College has initiated compulsory basic computer course through NIELT at the college premises at a highly subsidized rate.

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

- **Gender** - The College is a co-educational institution which provides equal opportunity to the female students. Separate Common Room for female students is exclusively maintained in the institution. A separate Disciplinary committee in match with *BISAKHA* guidelines is maintained to provide the needs of women.
- **Inclusive Representation** - The College being a Government College supports inclusive education making no discrimination on the basis of religion, caste, ethnicity, region, language, social status etc. Further, the institution follows the reservation rules as per Government norms for SC's, ST's, OBC - A & OBC - B.
- **Environment-friendliness** –



Photograph 2.3: Solar panels on the terrace

Energy conservation: Conservation of Energy is one of the primary areas of concern for Bidhannagar College. The following measures are taken within the institution's premises

to curtail wastage of energy and maintain optimum conservation. Sustenance of nature is the key concern for the institution in this regard.

- Efforts are made to increase the usage of alternate and renewable sources of energy as well as recycling of available natural sources for usable purposes. Mention may be made of solar energy and water treatment process in this regard.
- Fans and lights are turned off when the students are not around, and of sunlight is maximised wherever possible.
- Doors and windows have tight seals and are closed when the air conditioner is running.
- Computers, UPS, printers and copiers are turned off at the end of the day to avoid wastage of energy.
- Equipments are monitored and serviced at regular intervals for proper operation.
- **Usage of solar energy** is practised within the college campus. The principal and his office as well as all the departments of the college has one electric point (either light or fan) with the solar energy plant which is installed in the terrace of the college.

Water harvesting: Bidhannagar College (with the initiative of the Department of Botany) has constructed rain water harvesting infrastructure which provides supply of water for the purpose of cleaning and gardening in the institution.



Photograph 2.4: Water harvesting facility in the college

Efforts for Carbon neutrality: Bidhannagar College, over the years, has tried to maintain carbon neutrality through a number of measures.

- Giving more importance in the greenery and plantation programme within the college promise for more supply of oxygen and reduction of gaseous form of carbon.
- The institution boasts of a vast stretch of open land. With no big scale factory in the vicinity, carbon pollution level is generally low.

- The personal vehicles used by the staff members conform to state defined pollution rules and matches with Euro III and Euro IV specifications to reduce carbon emission.
- Installation of low energy lights in the new infrastructure has been done within the campus.

Plantation

- Plantation programmes within the college premise programme are held in a regular basis.
- There is a Medicinal Garden *Parasar Udyan* maintained by the Botany Department which is not only integral to the study of the UG syllabus but also an important instrument for environment consciousness.



Photograph 2.5: Medical plantation in College

- Moreover, the gardener of the College effectively maintains the college garden which includes planting of new flower plants.

Hazardous waste management

- Chemical wastes including radioactive compounds are disposed off by the Chemistry department. Some kinds of chemical wastes are disposed off in sealed container.
- Disposal of pathogenic bacteria by Microbiology department.
- The micro-organisms used and grown in different media for teaching and research purposes are sterilized after use by autoclaving. It is done by the students after class and also by the laboratory assistants.
- The institution being a government body, P.W.D (Electrical) looks after the e-related management and wastes.

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

The College efficiently identifies and supports the needs of the advanced learners in a number of ways which are as follows:

- The Central Library as well as Seminar Libraries in all the departments in the College provides Text and Reference Books of different specialized areas as well as Journals of both International and National Publishing Houses.
- All the Science Departments has got excellent Laboratory facilities to provide good experimental infrastructure to satisfy the needs of the advanced learners.
- Internet facilities are available in the different departments for providing soft copies of different types of advanced academic resources to the advanced learners.
- Some of the Post graduate departments have research scholars and the college provides them excellent research infrastructure.

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 initiates for the collection analysis of academic performance through conduct of College level examinations like Mid-Term Examination, Test Examination. Further, different departments regularly organises class test to assess the progress of the students in their academics. Apart from this, regularity of the students are monitored frequently to identify the absentee students.

These steps are followed up by a number of deeds so as to reduce the risk of drop out particularly from the disadvantaged sections of society, physically challenged, slow learners, economically weaker sections etc. The deeds are as follows:

- The teachers of the institution advise and guide the students for betterment as well as counsel those who are weak and fail to cope with the academic standard of the college.
- Results are prepared centrally but with close dialogue conducted with departments so that the weaknesses of individual students are tackled in a need-based manner.
- The departments tend to keep track of the absentee student and try to find the cause of absence. Every now and then they are kept in touch over phone and motivations are provided for being present in the class and academic improvement.

2.3 Teaching-Learning Process

2.3.1 How does the college plan and organise the teaching, learning and evaluation schedules? (Academic calendar, teaching plan, evaluation blue print, etc.)

In regard to the College plan and organisation of teaching, learning and evaluation schedules the following activities takes place.

- Academic Calendars are prepared every year which is circulated among the teachers and the students by respective departments.
- The allotment of teaching portion from the syllabus is prepared every year in the departmental meeting at the beginning of the academic session. The teaching plan is distributed among the students.
- The students are evaluated both by written examination and orally. Examination Sub-Committee based on their logistics, prepare the time frame for conducting the internal mid-term & test examinations (exam schedule, evaluation schedule, result announcement schedule, marks submission schedule). The process of evaluation is as follows:
 - **Class Test:** These are conducted at departmental levels to ensure continuous assessment.
 - **Midterm Test:** These are comprehensive tests on substantial portion of the syllabus to help the students to prepare for their Selection Tests.
 - **Selection Test:** Terminal Tests at the end of each year of study to assure the eligibility for University Examination.
 - **End Semester Examinations:** The autonomous post-graduate departments evaluate their students through end semester examinations and presentation of Term Papers in public seminars.

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

The IQAC body of the College meets on a regular basis and monitors the multi-dimensional aspect of academic activities and focus on effective implementation for Total Quality Management for Teaching-Learning process for all stakeholders. It contributes to improve the teaching – learning process by:

- Planning and introducing more teaching aids to improve the teaching-learning process and encourage innovative practices.
- The method employed is one of supervision and scrutiny.
- As an advisory body, it offers suggestions for development on multiple levels – development of intellectual property, language-skill development, development of the teaching-learning process, infrastructure development and the like.
- The IQAC has played an active role in forwarding the Career Advance Scheme (CAS) of the teaching community.
- The IQAC has proposed a complete on-line admission procedure for a transparent merit-based admission process and the whole admission- process has been made on-line since 2012.
- The IQAC keeps a regular watch over the academic activities of the College. It devises plans for the future academic growth and sustenance of quality after feedback analysis.
- The IQAC alongside the Research and Development committee always encourages the members of the Faculty to upgrade themselves. A considerable number of teachers are now engaged in conducting research work, associating themselves with UGC, CSIR, DST, WBDST, ICSSR, ICMR, ISI and the like. Major and minor research projects are undertaken; articles are published in national/ international journals. The situation appears quite encouraging.

- As per the proposal given by the IQAC, the central library of the college has been initiated into the UGC-INFLIBNET on-line journal membership along with the on-line membership of the British Council Library.

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?

To make the learning in the college more student centric, a number of measures have been taken by the academic and administrative authorities over the years. These are as follows:

- The teachers use modern technological gadgets like Smart Class Room, OHP, LCD projectors to present their lecture in a more lucid way.
- The teachers are independent in context of their teaching method and they lay stress on interactive session and eye contact approach.
- The teachers resort to Information technology as an effective way of teaching method. Mention may be made of Internet and LAN enabled system through which students have access to different types of study materials.
- The students are encouraged to make study centered visits, attending seminars and workshops (particularly in PG departments), interdepartmental academic interactions etc.

However, the core context in this regard lies in developing interactive and student centered approach of 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?

To nurture critical thinking, creativity and scientific temper among the students to transform them into life-long learners and innovators, a number of measures are taken by the different departments as well as the College as a whole. These are as follows:

- Department of English had arranged an Inter College Essay Competition where the students of the department got an opportunity to compete with the others from different institutions of higher education.
- Departments often conduct Seminar Classes where the students prepare presentations in front of the teachers and they have to defend their presentations wherever required.
- The students are encouraged to participate in Inter-College Debate, Quiz and other forms of academic competitions across places.
- The teachers of different departments encourages students to question on the topics they are being taught and helped to generate new and innovative ideas in regards to apply the knowledge in context of welfare and development of the society.

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 (NME-ICT), open educational resources, mobile education, etc.

The College lays its thrust in traditional learning of Lecture, Seminar, Field study and Practical in real laboratory set up. Virtual Learning and Laboratories take a back stage. However, in recent times, different departments have initiated teaching based on e-learning. Departments like Anthropology, Physics etc. are developing E-library in the departments the benefits of the students. Further, availability of internet facilities has eased students to access e-journals and e-books.

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

The students and the faculties are exposed to different interactive sessions for increasing their level of knowledge and skills. Blended Learning in form interdisciplinary exchange happens particularly in the Post Graduate level between Botany and Micro Biology, Physics and Physical Chemistry etc. In occasions, interactions do happen in Undergraduate level like for History and Archaeological Anthropology. Expert lectures are arranged particularly at Post graduate levels in the disciplines offering the degree. Both the students and the teachers participate actively in different forms of seminars and workshops both within the college and elsewhere. Further different departments arrange for talks from different resource persons from different institutions which enrich the students as well as the teachers. Further, the faculties on a regular basis participate in Refresher Courses and Orientation programmes conducted by different Academic Staff Colleges across the country.

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

Within the College, the different Departments arrange for academic, personal and psycho-social support and guidance services both formally and informally. Although the College does not hold a formal Counseling Cell, but teachers have a regular interaction with the students in a humane way to serve a number of purpose. Further, a fully active Disciplinary Committee works under the Teachers Council to provide for the necessary support, guidance and discipline maintenance within the College premise. The formal and informal activities in this regard are as follows:

- Discuss informally about stress relief and talks on the meditation.
- To discipline and counsel the students.
- Take reform measures wherever necessary.
- To lay effort in the development in a holistic awareness on a stress condition.

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?

During the last four years the institution has undergone infrastructural development programme for introducing innovative teaching approaches / methods in the College which are as follows:

- The Departments of Anthropology, Botany, Chemistry, Microbiology, Zoology etc have developed “Smart Class Room” as a modern teaching aid.
- Almost all the departments have access to internet facilities and accordingly teaching resources are prepared and distributed to the students by the faculties using this IT enabled service.
- Faculties of different departments developed Microsoft Power Point presentations as a teaching aid while delivering lectures.
- Different departments in the last four years have organised UGC sponsored Seminars which provided the students to have an opportunity of getting exposure to knowledge system through seminar methods, a device of higher teaching approach.
- The different Post Graduate departments of Chemistry, Microbiology and Zoology arrange for seminar presentation, Project Work and dissertation report which are evaluated in presence of external examiners.
- Departments of Mathematics, Statistics and Geography are using latest softwares according to their disciplinary necessity in match with the curriculum of the affiliated University.
- In Anthropology, the 3rd Year (Hons.) students undertake an intensive field work (fifteen days stay) in tribal or Caste villages in remote locations to understand the different dimensions in problems and prospect in community life.
- In the English Department Special areas are discussed and then students are encouraged to present their views in Seminar models. Further, Film shows are arranged almost at a regular basis to represent.
- All the other Undergraduate departments undertake some sort of innovative teaching methods be it Information Technology based, Survey and Excursion based, Film shows based, Tutorial Class based, Seminar presentation based etc.
- In addition to the aforesaid devices, ICT Tools such as photocopiers, scanners, printers etc contribute to better learning process. GIS software, microscope with photographic attachment etc also help the cause of innovative learning. Student feedback system also helps to nurture the development of the new teaching aids across the departments.

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

The library is constantly in use by the students as well as teachers. Computerization of the library documents is being done by using ULIB software including bar-coding of the books and OPAC facility. The central library houses more than 55,000 text and reference books and subscribes about 600 e-journals. There are some helpful study-materials in CDs to help students to go deep into their courses. Apart from the central library, there are seminar libraries attached to all individual departments.

The Library provides:

- Reading room facilities and reference services

- Internet-access
- Home lending of books

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.

The institution ensures that the curriculum is completed for each course within the time frame. But, in doing so the teachers has to undergo a number of constraints and challenges. Situations often arise where teaching days are curtailed for a number of co-curricular activities, Student election mechanism, Changes incorporated in University academic calendar and so on. Further hazards both natural and socio-political tend to create challenge in completing the curriculum within the planned time frame and calendar.

To overcome these constraints, the teachers often take extra classes both outside the routine as well as sometimes during the vacation period.

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

The Institute monitors and evaluates the quality of teaching – learning on a regular basis. The Principal keeps a regular vigil on the regularity of the classes and the students’ attendance. The students at the time of taking admissions have to give undertaking on attending 75% classes else he or she may be debarred from taking selection test and University Examination. The Teachers Council takes care of the quality of teaching learning in the College. The departmental teachers take care of teaching learning in specific contexts. The student feedback system also helps in this regard. A collective effort of Principal, Teachers Council, administrative support staff with the help of the restore the quality of 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 2.3: Designation and qualification of faculties (as on 01.07.2016)

Highest Qualification	Professor		Associate Professor		Assistant Professor		Total
	M	F	M	F	M	F	
Permanent Teachers							
D.Sc./D.Litt.	0	0	0	0	0	0	0
Ph.D.	1	0	19	11	19	06	56
M.Phil.	0	0	03	03	03	06	15
PG	0	0	07	00	16	07	30
TOTAL	1	0	29	14	38	19	101
Part-time Teachers / Guest Lecturer (GL)							
	M			F			
D.Sc./D.Litt.	0			0			0
Ph.D.	3			0			3
M.Phil.	0			1			1
PG	0			0			0

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.

Bidhannagar College being a Government College cannot recruit permanent faculties to help the cause in the aforesaid context. State Public Service Commission does the needful in this regard. However, the College in its own capacity invites retired teachers, scientists, scholars to deliver special lectures as resource persons. Further, the College faculties participate actively in different seminars, workshops, refresher and orientation programmes etc to upgrade themselves to provide inputs to the students.

However, different departments like Anthropology, Education, etc with due help from the Principal has recruited different Guest Teachers duly sanctioned by the Higher Education Department to facilitate this cause over the last three years.

Guest teachers from Bose Institute as well as Calcutta University are regularly teaching matters like Biotechnology, Bioinformatics in Microbiology.

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 2.4: Faculties participated in different staff development programmes

Academic Staff Development Programmes	Number of faculty nominated
Refresher courses	27
HRD programmes	-
Orientation programmes	18
Staff training conducted by the university	-
Staff training conducted by other institutions	-
Summer / winter schools, workshops, etc.	18

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

- Teaching learning methods/approaches
- Handling new curriculum
- Content/knowledge management
- Selection, development and use of enrichment materials
- Assessment
- Cross cutting issues
- Audio Visual Aids/multimedia
- OER's
- Teaching learning material development, selection and use

- **Teaching learning methods/approaches-** The Refresher Courses and Orientation programmes are attended by different teachers to enhance their innovative teaching skills. Apart from these, Workshops, Summer and Winter Schools empower and enable the teachers for the use of various tools and technology for improved teaching-learning. Teachers are provided Duty Leave to attend them.
- **Handling new curriculum-** Bidhannagar College in its own capacity invites retired teachers, scientists, scholars to deliver special lectures as resource persons. Further, the College faculties participate actively in different seminars, workshops, refresher and orientation programmes etc to upgrade themselves to provide inputs to the students.
- **Content/knowledge management-** The different departments in the College often undertakes academic programmes in collaboration with other academic institutions to felicitate Content / Knowledge Management.
- **Selection, development and use of enrichment materials** – The college has undertaken different modalities for selection, development and use of enrichment materials. Some of these measures are mentioned hereby.
 - The Departments of Anthropology, Botany, Chemistry, Microbiology, Zoology etc have developed “Smart Class Room” as a modern teaching aid.
 - Almost all the departments have access to internet facilities and accordingly teaching resources are prepared and distributed to the students by the faculties using this IT enabled service.
 - Faculties of different departments developed Microsoft Power Point presentations as a teaching aid while delivering lectures.
 - All the other Undergraduate departments undertake some sort of innovative teaching methods be it Information Technology based, Survey and Excursion based, Film shows based, Tutorial Class based, Seminar presentation based etc.
 - In addition to the aforesaid devices, ICT Tools such as photocopiers, scanners, printers etc contribute to better learning process. GIS software, microscope with photographic attachment etc also help the cause of innovative learning. Student feedback system also helps to nurture the development of the new teaching aids across the departments.
- **Assessment** – The Heads of the different departments keeps track of the progress and the impact of faculty enrichment is directly assessed through the newer teaching techniques.
- **Cross cutting issues** – Some of the faculties of different departments are actively involved with civil society organisations so as to contribute their knowledge base at the community perspective and transfer knowledge gathered from the community to the students during the class hours.
- **Audio Visual Aids/multimedia** – Faculties use Audio / Visual Aids / multimedia as a teaching aid and makes the students inclined more effectively towards the course curriculum.

b) Percentage of faculty**Table 2.5:** Faculties participated in seminar/workshops

Characteristics	2011-2012	2012-2013	2013-2014	2014-2015
Invited as resource persons in Workshops /Seminars/Conferences organized by external professional agencies	10	4	10	7
Participated in external Workshops / Seminars/Conferences recognized by national/ international professional bodies	36	26	2	18
Presented papers in Workshops / Seminars/Conferences conducted or recognized by professional agencies	40	24	26	16

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

Bidhannagar College being a Government College, the policies / systems to recharge teachers mainly processed through the Department of Higher Education, Govt. of West Bengal.

- In context of Research grants, teachers have the opportunity to conduct Major and Minor Research projects funded by different bodies such as UGC, CSIR and ICSSR.
- Teachers have the opportunity to take study leave for Ph.D. or Post doctoral studies but that have to be sanctioned by the Higher Education Department, Govt. of West Bengal in conformity with leave rules as per Service Conditions.
- As a measure for support for Research and other academic publications, the college publishes its own journals or some special publication editions where the teachers publish their research works.
- In context of specialised programmes / Industrial Engagements the Principal / Officer in Charge gives ready permission or forwards the application for permission in an urgent basis for the faculties to undertake specialised programmes and Industrial Engagement as resource person or consultant.

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.

Dr. Arun Kumar Jana has received award in the field of educational social awareness from West Bengal State University for his voluntary service.

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?

Yes. The College has introduced student feedback system (from the outgoing 3rd Year Undergraduate Honours students). However this feedback is monitored by the Principal / Officer in Charge so as to understand the academic demands of the students and take the correctional measures to improve the quality of teaching learning process.

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?

The institution ensures that the stakeholders of the institution especially students and faculty are aware of the evaluation processes by a number of process like Institutional Notification, Teachers Council meetings, Departmental Faculties meeting, Academic Calendars, Teacher students interactions and the Parent Teachers Meetings all of which happens at regular intervals.

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?

Bidhannagar College is affiliated to West Bengal State University, Barasat. There are two levels of teaching programme in the institution. These are: Post-Graduate level (autonomous) and Undergraduate Level (Honours Course only).

In the Post Graduate Level, the departments operate in semester system (1st, 2nd, 3rd and 4th overs 2 years time span). Three subjects are offered in Post Graduation which are Chemistry, Microbiology and Zoology.

In the Undergraduate level the West Bengal State University, Barasat works in 1+1+1 system of examination for three years degree course from 2009. The evaluation process constitutes of Theory and Practical examination at the end of each year conducted by the university in a centralized way. Different subjects at its undergraduate level have its distinct arrangement of groups or modules (usually 50 per module with few exceptions.) in each year as decided by the Undergraduate Board of Studies of that particular subject. However all the Honours subjects have 800 marks distributed in 3years time and the General Papers have 300 marks distributed over 2 years time.

The pattern of Questions has been framed into a number of types from essay type questions of 10 or 12 marks each , Intermittent types of 5 marks each, Definitional type of 2 marks each and Multiple Choice Questions of about 1 marks each.

The evaluation of practical examination is conducted through laboratory experiments, field reports, project works; computer based practical tasks, instrumental survey techniques and viva voce.

The assessment system of the university at Undergraduate level as well as the autonomous Post Graduate programmes in the College enables the students to compete and appear in entrance examinations of reputed international and national institutes of higher learning for post-graduate,

NET / SET Examinations and PhD degrees and other professional competitive examinations in IITs, IIMs, ISI, IIPS & TISS and service related Examinations such as UPSC, State PSC etc.

As aforesaid, for the Post-Graduate programmes, the institution has been granted academic autonomy and hence it runs the two years Master's course through semester system divided into four semesters (1st, 2nd, 3rd and 4th) each of six months duration. A new syllabus has been framed in all the postgraduate departments. The evaluation reforms consist of the following:

- An Examination at the end of six months marking the completion of the Semester.
- A continuous laboratory experiments/assignments as mode of regular evaluation.
- Presentation of Term Papers through seminars
- Preparation of Projects through collection and analysis of chemical and biological samples as and what is relevant for the individual departments.
- Preparation of a dissertation paper at the end of 4th semester based on Special papers offered by the individual faculties based on both primary and secondary data and presentation of the same through a public seminar.
- This enables the students to appear in NET, SLET, GATE, and other competitive, academic and professional examinations.

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 institution ensure effective implementation of the evaluation reforms of the university and those initiated by the institution on its own predominantly through notification of institutional Rules and Regulations through college website and prospectus as well as notification of individual departmental rules and regulations in post graduate autonomous course. This modality operates mainly in context of academic curriculum

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.

The Student Evaluation of the College has its own process of internal assessment system through class tests, mid-term tests and selection tests. The students are then advised and counseled to rectify their shortcomings. The College arranges for remedial and tutorial classes for the academically weak students to help them overcome their drawbacks and prepares them to do better in their university examinations. The university results of our College students is exemplary, our students obtain ranks in the university examinations. The system of assessment and evaluation adopted by us has had positive impacts.

e.g., Dhriti Mukherjee (Completed Anthropology (Honours) successfully, student of the Department of Anthropology) found it difficult to cope with the honours course when she took admission in this college but constant monitoring and guidance has helped the student tremendously and he has done fairly well and secured first class in Anthropology in B.SC Examination conducted by the West Bengal State University Barasat of which the college is an affiliate.

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

The institution ensures rigor and transparency in the internal assessment and weightages assigned for the overall development of students through a number of modalities which are as follows:

- The internal examinations are characterised by strict invigilation mechanism.
- The scripts at UG and PG are evaluated in strict conformity by several teachers which erase out the possibility of under / over marking.
- The answer scripts are shown to the students to let them see their drawbacks and mistakes and suggestions are given to improve their performance.
- The students are encouraged to participate in different co-curricular programmes to rise the spirit of overall development in the likes of behavioral aspects, independent learning, communication skills etc. Mention may be made of participating in Seminars, conferences, debates, essay writing competitions etc in this regard.
- Further, the Disciplinary Committee under the Teachers Council keeps a strict vigil on the rigor and transparency process in regard to the internal assessment of the students.

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 desired include

- Focus on Consistently excellent academic performance.
- An all round development of the students both in curricular and co-curricular activities.
- Special focus on the development of Weaker Students.

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

For redressal of grievances with reference to evaluation both at the college and University level different system operates. For University examination, the students have both the facilities of Review as well as seeing the examined scripts through Right to Information Act. At the College level, the examined scripts are shown to the respective students by the departmental heads and the respective faculties.

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?

Yes. The college has clearly stated its learning outcomes in a number of ways. The list of successful alumni mentioned in the college prospectus shows the outcomes of the students who had their academic foundations at Under Graduate level in this College. Further, the Career Counseling Committee under the Teachers Council expose the students of the College to

Consultancies, Companies and Organizations over the years where the performances and learning outcomes of the students are exposed.

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 an 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 2.6: Student progression profile

Department	2011 – 12		2012 – 13		2013 – 14		2014 – 15		2015 – 16	
	1 st Class	Pass	1 st Class	Pass	1 st Class	Pass	1 st Class	Pass	1 st Class	Pass
ANTHROPOLOGY	40	100	100	100	100	100	83	100	7	100
BENGALI	0	97	0	96	6	100	-	100	0	100
BOTANY	13	88	0	50	20	100	33	100	3	100
CHEMISTRY	25	90	33	100	80	100	57	93	7	100
ECONOMICS	7	94	0	100	43	100	20	60	1	100
EDUCATION	0	100	0	100	0	100	0	100	5	100
ENGLISH	5	95	0	97	0	96	0	100	1	100
GEOGRAPHY	NA	NA	NA	NA	NA	NA	NA	NA	0	95.2
HISTORY	0	91	0	73	0	93	0	84	-	100
MATHEMATICS	22	100	30	83	30	100	20	80	1	100
MICROBIOLOGY	64	100	57	100	33	100	63	100	5	100
PHILOSOPHY	13	74	0	78	0	90	0	72		
PHYSICS	33	100	88	100	38	100	20	95	3	94.1
POL.SCIENCE	0	95	0	100	0	79	0	100	0	100
STATISTICS	38	100	20	100	22	100	0	84	9	100
ZOOLOGY	46	100	13	100	22	100	38	96	7	100

Post Graduate																
Department	Semester-I				Semester-II				Semester-III				Semester-IV			
	Semester-I	Semester-II	Semester-III	Semester-IV	Semester-I	Semester-II	Semester-III	Semester-IV	Semester-I	Semester-II	Semester-III	Semester-IV	Semester-I	Semester-II	Semester-III	Semester-IV
CHEMISTRY	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100
MICROBIOLOGY	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100
ZOOLOGY	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100

- The progress and performance of every student is closely monitored throughout the course by the respective departments through classroom lectures and internal assessment method. After each internal examination, results are displayed on the departmental notice boards.
- Strict vigilance on attendance is kept, attendance registers are checked regularly, and students who are falling short in attendance are contacted personally and if necessary their parents are also informed.
- 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 teaching, learning and assessment strategies of the institution are structured to facilitate the achievement of the intended learning outcomes of the students in a number of ways which are as follows:

- In the Undergraduate level, although the academics in every discipline is guided by University framed curriculum, but often the teachers often guides the students beyond the curriculum to help them to prepare for Post Graduate Entrance Examinations across the country which is reflected from the alumni who are pursuing Post Graduation in other Universities within the state as well as outside West Bengal.
- The autonomous course at Post Graduation level in the departments of Chemistry, Microbiology and Zoology is framed in such a way that the students are encouraged to sit in competitive examinations like JAM, NET, SLET, GATE, GMAT etc.
- Different departments in the College often in collaboration with other Academic Institutions and Research Institutes organise UGC sponsored National and State Level workshops/seminars/ Lecture programmes to appraise the students about the latest opportunities in academic arena.
- Notifications are provided to the students about the opportunities provided as well as career prospective in the reputed centers of higher learning across India.

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?

Although the College does not offer any certified professional course to enhance the social and economic relevance (student placements, entrepreneurship, innovation and research aptitude developed among students etc.). But staying within the ambit of PG and UG curriculum, the teachers try to inspire the students in their personal capacity in regard to their placement prospects, entrepreneurship, innovation and research aptitude in their future life. However, the students are provided exposure through different industry and field visits in PG and UG level so as to provide opportunities to enhance their research aptitude.

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

The institution collect and analyse data on student performance and learning outcomes and use it for planning and overcoming barriers of learning in a number of ways which are as follows:

- The Principal reviews the students' performance and learning outcomes on a regular basis.
- IQAC maintains a regular vigil on student performance and learning outcomes and use it for planning and overcoming barriers of learning.
- The students section in the College keeps regular statistics of the student performance and learning outcomes which help the departments to plan and overcome the barriers on learning.
- Social media helps ex-students keep in regular touch with the present students as well as the ex-students visits the departments and share their academic experience to the newer or present day students.

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

The institution monitors and ensures the achievement of learning outcomes through a number of ways which include University and College Examination results, Seminar presentations, Project works, Inter and Intra College competitions in academic co-curricular activities (Debates, Essay Competitions, Sports etc).

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

Yes, the institution and individual teachers use assessment/ evaluation outcomes as an indicator for evaluating student performance, achievement of learning objectives and planning.

All the individual teachers keep track individual student performance through the results of different forms of internal assessments. 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.

A transparent admission policy is practiced where meritorious students as well as disadvantaged sections get their due. Special facilities, incentives and coaching classes are provided for slow and advanced learners. To make teaching/learning effective and enjoyable, a combination of traditional and innovative methods is practiced, depending on the requirement of the subject and the mental ability of the learners and making changes according to the latest developments in all the subjects. The evaluation processes are student-friendly and reliable. In future, the College also intends to avail the scope of virtual classroom and collaborative programmes with other institutes. A number of effective measures have been adopted to assess the performance of faculty to prevent their stagnation and complacency.

CRITERION-III

**RESEARCH,
CONSULTANCY
& EXTENSION**

Criterion III: RESEARCH, CONSULTANCY AND EXTENSION

This criterion gives information on the policies, practices and its outcomes, with reference to research, consultancy and extension. The facilities provided and efforts made to promote a 'research culture' are highlighted.

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?

Yes. Teachers of arts and science faculties of both postgraduate and undergraduate departments are actively engaged in research work as reflected by the number of major and minor research projects sponsored by UGC and other funding agencies (Table 3.1, 3.7, vide section 3.2.7). Many teachers of the college are also involved in guiding scholars for doctoral work (Ph.D.) under affiliation of WBSU and other universities all over India (vide 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. The Teachers Council annually selects/nominates members' from arts and science faculties who forward research proposals in accordance with UGC guidelines. The composition of the research committee is as follows:

- Dr. Sumona Mukherjee, Convenor (Dept of Botany)
- Prof. Achintya Sarkar (Dept of Chemistry)
- Dr. Ranajit Karmakar (Dept of Zoology)
- Dr. Kaushik Maji (Dept of Chemistry)
- Dr. Sankha Priya Guha (Dept of Anthropology)
- Dr. Sandip Bandopadhyay (Dept of Microbiology)
- Dr. Ketaki Dutta (Dept of English)
- Dr. Subhas Chandra Maity (Dept of Chemistry)

The members of the committee provide information and encourage the teachers to apply in Research Schemes and Fellowships as advertised by different funding agencies. The project proposals are screened before submission to relevant funding agencies. The sanctioning of successful projects by different funding agencies bear testimony to the way promotion of research is done in the College (Table 3.1).

Table 3.1: Projects submitted as per recommendation of the research committee & sanctioned by UGC

Sl. No.	Name of the teacher	Department	Title of the project	Funding agency	Sanction No. & date
1	Sudeshna Chanda	Anthropology	A comparative study on health & nutritional status among the tribal & non-tribal working woman of North Bengal; An anthropological overview	UGC Minor Project	PHW-196/14-15 Dated 02.02.2015
2	Subhadipa Sengupta	Botany	Community analysis of plant growth promoting endophytic microbial flora in different rice cultivars of West Bengal.	UGC Minor Project	PSW-039/14-15(ERO) Dated 00.00.2015
3	Mousumi Mukhopadhaya	Botany	Systematic study on the flora of bricks and rock constructions of Krishnanagar city (Nadia, West Bengal, India) and adjoining areas	UGC Minor Project	PSW-150/13-14(ERO) Dated 18.03.2014
4	Syamali Bhadra	Mathematics	An Empirical Analysis of Tax Gap in the Brick Fields in West Bengal	UGC Minor Project	PSW-170/14-15(ERO) Dated 03.02.2015
5	Soumyabrata Mondal	Physics	Some studies on electrification and plasma processes in the solar planetary atmosphere from reception of radio signals and model studies	UGC Minor Project	F. No. PSW - 114/14-15 (ERO) Dated 03.02.2015

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

The following measures are taken by the college to support & implement the projects

- Full autonomy to the principal investigator
- Timely release of resource
- Infrastructure in the form of laboratory, equipments, computer & internet facilities (details given in section 3.3)
- Access to online journals through INFLIBNET .
- One day per week is given as preparatory day for library & research work. Teachers are free to do research when classes are dissolved during examinations & during the vacations. According to WBSR study leave can be taken for completion of research with prior approval from West Bengal Higher Education Department

- Timely auditing by qualified auditors and submission of utilization to the funding authorities is facilitated.

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

The following efforts are made to develop scientific temper, research culture and aptitude among students.

- Organizing scientific seminars, special invited lectures (Table 3.2; Photograph 3.1)



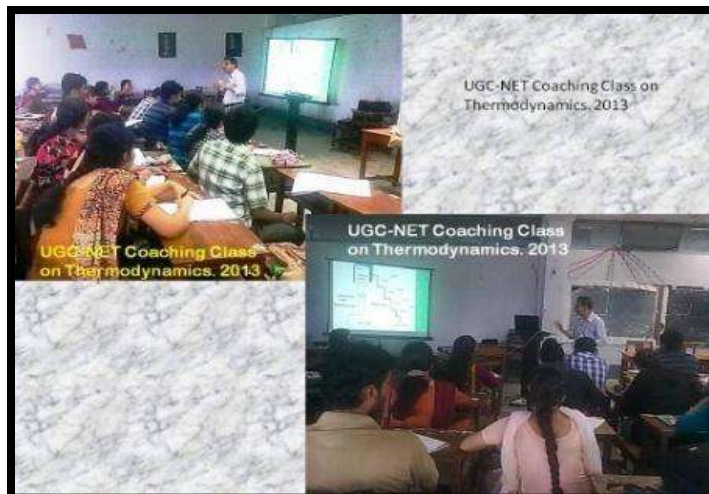
Photograph 3.1: Invited lecture organised by Department of Botany

- Encouraging undergraduate and postgraduate students to submit papers/posters in symposia, conferences (Photograph 3.2)



Photograph 3.2: Students presenting poster in National seminar

- Conducting NET coaching classes for postgraduate students (Photograph 3.3).
- Educational excursions and field trips by the departments of Anthropology, Botany, Education, Geography and Zoology, which are compulsory and part of the curricular, encourages student interest in science specially its practical and applied aspects (Table 3.3; Photograph 3.4).
- Dissertations by postgraduate student inspire research culture and create aptitude (Table 3.4)



Photograph 3.3: NET coaching classes on different subjects

Table 3.2: Seminars organised by the Departments

Department	Title of seminar /invited lectures	Funding agency	Date
Bengali	Rabindranath o Samakalin Prasanga	UGC	9 th & 10 th Feb, 2012
	Bangla Kabitae Pratibad	UGC	20 th & 21 st Sept, 2013
Botany	Plant Science Research in Human Welfare	UGC & BS I	11 th & 12 th Jan, 2012
	Scope of Palaeobotany and Palynology	BNC	30 th Jan, 2016
	Relevance & Prospects of Plant Biology - to Observe Science Day	Dept. of Botany	27 th Feb, 2016
	Teaching Botany in 21 st Century: Prospects & Challenges	UGC	6 th & 7 th Aug, 2016
Chemistry	Chemistry – A pathway to Biological Processes	UGC	2010
	‘Acharya P. C. Ray- a Chemist and a Visionary’ And ‘Physical Chemistry- as it stands now’: Followed by a Speech competition by the UG and PG students.	BNC	2011
	Some Modern Aspects of Chemical Research- Grooming of UG & PG Student”	UGC	2012
	Theoretical and Experimental Tools in Science – a Chemist’s Approach”	UGC	6 th Sept, 2013
English	Literature in Translation	UGC	2 nd & 3 rd Aug, 2013
Geography	Evolution of cast system in India: its socio-political Implication	BNC	21 st Dec, 2015
Microbiology	Recent Advances in Microbiology and Biotechnology	UGC	14 th & 15 th Jan, 2012
Philosophy	Morality & its Extension	BNC	27 th Feb, 2015
Physics	Recent advances in the frontiers of physics	UGC	14 th Sept, 2013



Photograph 3.4: During field trip organized by different Departments of College

Table 3.3: Excursion/Field trips organised by the departments

Department	Excursion/Field trip Site	Date	No. of participating Students
Anthropology	Ethnographic and Prehistory Museum, Department of Anthropology, University of Calcutta.	13.09.2011	5
		22.09.2011	5
	Pallahara, Angul district, Orissa	29 - 14.11.2011	5
	Lataguri, Jalpaiguri district, West Bengal	31.08 - 13.09.2012	8
	Asutosh Museum, University of Calcutta	04.01.2013	8
	Shikshaniketan, Bardhaman district, West Bengal	19.11 -03.12.2013	6
	Asutosh Museum, University of Calcutta	06.02.2014	6
	Sillarigaon and adjoining areas, Darjeeling, West Bengal	28.10 -13.11.2014	11
	Paren and adjacent areas, Jalpaiguri, West Bengal	16 - 01.12.2015	9
	Paleoanthropology Laboratory and Museum, Anthropological Survey of India, Kolkata.	14.12.2015	9
Botany	Harsil & Garwahl Himalayas	08 - 17.11.2010	22
	Digha	06 - 08.09.2011	19
	Darjeeling	27.11.- 03.12.2012	28
	Acharya Jagadish Chandra Bose Indian Botanic Garden	18.04.2012	22
		08.04.2013	22
		04.09.2013	23
		21.03.2014	29
		26.03.2015	32
		27.02.2016	35
	Nainital	25 - 30.12.2013	15
	Mushroom Cultivation Centre & Medicinal Garden of Narendrapur Ramakrishna Mission, North 24 Parganas	25.03.2014	12
Sundarbans, North 24 Parganas	19 - 21.12.2014	16	
Garchumukh, Hooghly.	09.12.2014	46	
Sillery Gaon, Darjeeling & Juluk, Sikkim	16 - 21.11.2015	16	
Education	Asiatic Society of India	01.02.2016	14
History	Victoria Memorial and Calcutta Museum	09.09.2011	43
Geography	Ghatsila	17 - 19.02.2013	10
	Digha	18 - 20.01.2014	35
	Chalsa	14 - 20.01.2016	25
Microbiology	Visakhapattanam	26.12.2013-02.01.2014	24
	North Bengal	28.12.2012-05.01.2013	25
	Visakhapattanam	28.12.2011-	22

Microbiology		04.01.2012	
	Ooty/Mysore	Last week of Dec.' 2010- First week of Jan.' 2011	28
	Sikkim	26.01.16-01.02.2016	30
Zoology	Bakkhali, WB	3 days, Dec. 2010	20
	Candipore, Orissa	3 days, June, 2010	20
	Mandarmani, WB	1 day, Jan. 2011	15
	Chintamani Kar Bird Sanctuary, WB Chintamani Kar Bird Sanctuary, WB	1 day, Jan. 2011	25
		1 day, Jan. 2012	25
		1 day, Jan. 2013	36
		1 day, Jan. 2014	45
Zoology	Orissa Hill area	7 days, March, 2012	39
	Santragachi Lake, WB	1 day, Feb. 2013	18
	Purbasthali, Burdwan, WB	1 day, Jan. 2014	19
	Sunderbans BR, WB	4 days, Dec. 2014	42
	Doors, WB	5 days, Nov. 2015	42

Table 3.4 : Dissertations by postgraduate students during 2014-15

Department	Supervisor	Student	Research Topic
Chemistry	Dr. Shurit Ghosh	Arup Kundu	“Synthesis of Naphthalenediimide Derivatives and Spectroscopic Characterization”
	Dr. Samita Basu	Mitu Sarkar	“Interaction of a Therapeutically Important Cyanine Drug with a Model Protein: Photo-physical and Binding Study”
	Dr. Samita Basu	Debanjona Singh Roy	“Spectroscopic Study of Interactions of Amino Drugs with Gold Nanoparticle”
	Prof. Syamal Chakrabarti	Manish Das	“Spectroscopic and Electrochemical Studies of Dioxomolybdenum(VI) Complexes”
	Dr. Shurit Ghosh	Gourab Ghosh	“Synthesis and Characterization of End Functionalized Redox-Degradable Polymer”
	Dr. Debobroto Mandal	Sanjay Chandra Mandal	“Effect of Electron-Donating 4' Substituent on the Electronically Excited State Dipole Moment of 3-Hydroxyflavone”
	Dr. Narayan Chandra Bar	Tista Paul	“Synthesis of Phenyl Thiazole Derivatives”
		Amrita Mukherjee	
		Mousumi Pal	
	Dr. Narayan Chandra Bar	Angira Ghosh	“Synthesis of Phenyl Thiazole Derivatives”
Sukanya Ghosh			
Priya Das			

Chemistry	Dr. Subhas Chandra Maity	Kajari Mazumder	"Extraction of Caffeine Content in Different Brands of Tea Leaves in Local Market of Kolkata"
		Suman Saha	
		Sudip Bag	
		Indranil Dutta	
	Prof. Syamal Chakrabarti	Mayurakshi Mukherjee	"Synthesis, Characterization and Study of Reactivity of Dioxomolybdenum(VI) Complexes with a Tridentate ONS Donor Ligand"
	Dr. Sanchita Goswami	Aparupa Maity	"A Sensitive Schiff-base Chemosensor for Selective Detection of Zinc(II)"
	Dr. Jnan Prakash Naskar	Saheli Paul	"A Novel Oxime Based Schiff-Base Ligand and its Palladium(II) Complex Syntheses, Characterization, Crystal Structure and Spectroscopic Properties"
	Dr. Asim Kumar Majee	Jayaita Malakar	"Determination of Crystal Field Parameters of Hexaaqua Complexes of Different 1 st Transition Metal Ions by Electronic Spectral Measurement and Compare Their D_{q_0} Values"
		Sangeeta Ghosh	"Kinetics and Mechanism of Oxidation of L-Cysteine by Hexacyanoferrate(III) in Acidic Medium and Studies of the Effect of pH of the Medium on the Reaction Rate"
		Sanchita Misra	
Dr. Sanchita Goswami	Madhurima Das	"Fluorescent Turn-On Chemosensor Based on Schiff Base for Selective Detection of Aluminium Ion"	
Dr. Asim Kumar Majee Dr. Asim Kumar Majee	Mousumi Chowdhury	"Determination of Crystal Field Parameters of Different Ni(II) Complexes by Electronic Spectral Measurement, Positioning the Ligands in a Spectrochemical Series and in a Nephelauxetic Series"	
	Rituparna Biswas	"Determination of Crystal Field Parameters of Different Copper(II) Octahedral Complexes by Electronic Spectral Measurement, Positioning the Ligands in a Spectrochemical Series and in a Spectrochemical Series"	
Prof. Mahamad Ali	Sumit Ghosh	"Rhodamine Based Turn On Fluorogenic Chemosensor for Fe ³⁺ Ion in Organo-Aqueous Medium"	
Microbiology	Dr. Sayak Ganguli Rahul Banik (DBT Centre For Bioinformatics, Presidency College)	Alisha Sen Gupta	Designing Antisense Oligos Against IRES Elements In HIV-1 Genome
	Arunavo Goswami Shubhrodeb Roy (ISI)	Arghyajit Biswas	Synthesize, Characterization Of S-Doped Carbon Quantum Dots: Biomaging And DNA Interaction Property
	Dr Sayak Ganguli Manoj Kumar Gupta	Arijit Mondal	Gene Set Enrichment Analysis Of Genes Implicated In HIV-1 Associated AIDS
	Dr Mrs. Sumita Sengupta(Department Of Biophysics And Molecular Biology, Rajabazar Science	Arpita Bhowmick	Role Of Oncostatin M In Cancer
		Benika Saha	TA Cloning Of The Desired Segment Of 3' UTR Region Of The mRNA Of Leukemia Inhibitory Factor

Microbiology	College)		
	Prof. Subrata Majumdar (Bose Institute)	Madhulika Ganguly	Role Of DUSP6 (Dual Specificity Phosphatase 6) Against Visceral Leishmaniasis: Involvement Of MAPKS (Mitogen Activated Protein Kinase)
	Dr. Hemanta Koley (National Institute Of Cholera And Enteric Diseases (NISER)	Moumita Debnath	Isolation And Characterization Of Enteric Bacteria From Fish And Chicken Intestines
	Dr. Paramita Bhattacharjee (Dept. Of Food Technology And Biochemical Engineering, Jadavpur University)	Nirmalya Chowdhury	Shelflife Study Of A Coconut Oil Based Cold Drink
	Dr. Sayak Ganguli Rahul Banik (DBT Centre For Bioinformatics, Presidency College)	Nitesh Chand	Designing Antisense Oligonucleotides Against Conserved Musashi Binding Elements in HIV-1 Genome
	Dr Indranil Roy (Calcutta Medical Research Institute)	Roume Halder	In Vitro Susceptibility Of Oral Antibiotics In Patients With MRSA Infection
	Dr Sayak Ganguli Protip Basu (DBT Centre For Bioinformatics, Presidency College)	Saikat Roy	Docking Studies To Explore Argonaute-miRNA Interactions
	Dr. Sayak Ganguli Vineet Vishal (DBT Centre For Bioinformatics, Presidency College)	Saswata Saha	Secondary Structural Analysis Of piRNA In <i>Drosophilamelanogaster</i>
	Mr. Anindya Mukherjee (Britannia Industry Ltd.)	Tanmoy Dutta	Quality Analysis of Different Ingredients for The Production Of Different FMCG Products
	Dr. R. K. Nandy (NICED)	Tanya Mukherjee	Evaluation Of Immune Response To Polio Vaccine And Relating It To Nutritional Status Of Infants
	Prof. T. K. Dutta (Bose Institute)	Tuhin Banerjee	Transformation Of Substrates By <i>Pseudomonas Sp.</i>
Mr. Ranajoy Das (Emami Industries Pvt. Ltd)	Tushar Banerjee	Antimicrobial Efficacy Of Herbal Extract (Neem And Turmeric) And Quality Analysis Of Cosmetic & Ayurvedic Products	
Zoology	Dip Mukherjee	Tumpa Roy	Bioremediation
		Deeposree Moulik	Global Climate Change
		Trisha Majumder	Impact of the Toxicity of Cadmium on different organisms
		Nabasree Basak	Solid Waste Management
		Souptik	Toxicological profile for Lead

Zoology		Dutta	
	Suman Bej	Papiya Das	A Review on the toxicity of carbamate pesticides
	Dr. Susanta Nath	Alok Saradar	Preliminary study on the effect of organic fertilizer on the muscle protein content of a freshwater fish
		Himadri Sekhar Bhowmick	Preliminary study on the effect of organic fertilizer on the liver lipid content of <i>Channa punctatus</i>
		Chiroprotim Saha	Preliminary study of the impact of mustard oil cake on acetylcholinesterase activity in <i>Channa punctatus</i> (Bloch)
	Dr. Ranajit Karmakar	Arumita Majumder	Diagnosis, treatment and prevention of ectopic pregnancy & miscarriage
		Nilima Malo	Oxytocin, feeding and satiety
		Tahera Tannura	Epidemiology, diagnosis and management of polycystic ovary syndrome- a systematic review
		Rapti Roy	Effect of hepatic PPAR γ -FSp27 pathway on obesity related hypertension
	Dr. Ranajit Karmakar	Md. Abu Thaher Molla	Role of prednisolone to alteration in hepatic and muscular protein and glycogen level: it's correlation with blood glucose level in mice
		Koyel Chakraborty	Diagnosis, prevention & treatment of osteoporosis- a systematic review
		Sibam Mondal	Melatonin administration delays skin aging and age related bone loss

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.

Several members of both Arts and Science faculty are actively involved in research by

- Guiding Postgraduate students for M.Sc. Dissertation, which is a compulsory part of the curriculum (Table 3.4)
- Guiding scholars for Ph.D. (Table 3.5)
- Guiding students for M.Phil. Projects (Table 3.5)
- Pursuing doctoral and postdoctoral research (Table 3.6 and 3.7)

Table 3.5: Faculty members guiding students for Ph.D.

Department	Faculty	Name of the Candidate	Research Topic	University	Status
Microbiology	Subhas Chandra Jana	Abhijit Poddar	Studies on Ca^+ highly thermostable beta amylase from mesophilic bacterium <i>Bacillus</i> sp DJs	Jadavpur University	Awarded 2013
		Malay Mandal	Studies on agroecultural application of biopesticides in different combinations for the management of betal vine disease	Jadavpur University	Registered 2011
		Madhusree Roychaudhury	Application on bacteriocin in biopreservation	Jadavpur University	Registered 2012
		Jayjit Mondal	Isolation of tree living nitrogen fixing, phosphate solubilising, salt tolerant <i>Azotobacter</i> and production of multipurpose biofertilizer with vermicompost as base material.	West Bengal State University	Registered 2015
Chemistry	Prof. Achintya Kumar Sarkar	Khokon Samanta	Derivatives of phenanthrenes & phenanthraquinones; synthesis via Suzuki coupling and other reactions	University of Calcutta	Awarded 2012

Table 3.6: Faculty members pursuing /completed Ph.D.

Department	Faculty	Research Topic	University	Status
Anthropology	Sudesna Chanda	On the variation of primate head hair	University of Calcutta	Awarded on 03.05.2010
	Krishnendu Polley	A study on experimentally manufactured lower paleolithic tools and their Debitages.	University of Calcutta	Awarded in 2014
Botany	Subhadipa Sengupta	Development of marker free insect resistant transgenic rice planttype: a clean gene approach	Jadavpur University	Awarded in 2010
	Dwaipayyan Sinha	Genetic diversity of <i>Pinus roxburghii</i>	Delhi	Awarded in 2015
Bengali	Sk Emanul Haque	Unishshotoker bangla kathasahityebangalirbiratwa	University of Kalyani	Awarded in 2015
Chemistry	Rituparna Biswas	Studies on Ni (II) & Fe (III) complexes with some N ₂ O donor Schiff base ligands	University of Calcutta	Awarded on 08.07.2014
	Dr. Anisur Rahaman Molla	Folding and Association of Oligomeric Proteins: Studies with Galactose-Specific Lectins	University of Calcutta	Awarded on 23.05.2013
	Dr. Shubhankar Samanta	Synthesis of Heterocycles and Carbocycles By Heck and Michael Reactions	IIT Kharagpur	Awarded 25.04.2011
	Susanta kumar Manna	Synthesis, Photophysical and biological studies of heterocyclic compounds	Vidyasagar University	Registered on 06.01.2015 No.835
Education	Priyanka Datta	Home environment, mental health, emotional intelligent & procrastination in relation to the academic achievement of higher secondary students	University of Calcutta	Registered in 2014
	Shikha Roy	Impact of life skill education & home environment on the mental health & adjustment of adolescents	University of Calcutta	Registered in 2015
Mathematics	Ramkrishna Thakur	Study on spectral theory of Banach Algebra and compact linear operators.	Visva Bharati	Registered 2013
Microbiology	Sandip Bandyopadhyay	Isolation & characterisation of plant growth promoting Rhizobacteria from different agricultural fields of N24Prngs	Jadavpur University	Awarded in 24.12. 2014

Microbiology	Masrupe Alam	Evolution and Interactions of the Sox (Sulfur Oxidation) multienzyme complex of lithotrophic bacteria.	University of Calcutta	Awarded in 2015 (February)
	Sudipta Chakraborty	Studies on antileishmanial activity of arsenic nanoparticle	University of Calcutta	Registered 19.02.2015
	Dr. Upal Das Ghosh	Isolation and characterization of the bacterial consortium associated with the roots of <i>Typha</i> , growing on heavy metal enriched wetlands.	University of Calcutta	Awarded in 2011
	Sandip Misra	Post translational modulation of PTEN and its implication on maintaining genomic integrity	Jadavpur University	Registered in 2013
	Sourav Pakrashi	Studies on impact of agrochemicals on neurodegeneration.	W.B.U.T	Registered in 2013
Philosophy	Sankalita Ghosh	Bharotiyo Darshane Karjaya-Karan Tattva O Avayava Avayabi Prasanga	Jadavpur University	Awarded in 2010 (Dec)
Physics	Supriya Chatterjee	Dynamics of half-cycle pulse induced Rydberg wave packets	Visva Bharati	Awarded in 2015 (May)
	Soumyabrata Mondal	Some studies on electrification & plasma processes in the solar planetary atmosphere from reception of radio signals	University of Kalyani	Awarded in 2015 (June)
Political Science	Tathagata Chakrabarti	Folklore, politics & social change: Gambhira festival of North Bengal	Gauhati University	Awarded in 2013 (December)
Zoology	Suman Mukherjee	Studies in Toxological response of <i>Lamellidens Marginalis</i> to azadirachtin based pesticide	University of Calcutta	Awarded in 2011 (January)
	Dip Mukharjee	Toxicity of pulp and paper mill effluents and some of their ingredients on fish, fish-food organisms and aquatic ecosystem along with management effluent qualities	West Bengal State University	Thesis Submitted 2015 (July)
	Biswatosh Ghosh	Ethobiology & ethochemical understanding of semiochemicals (pheromone) of some Indian mammalian species	Jadavpur University	Registered in 20.08.2012

Statistics	Ajoy Kumar Biswas	Some issues in psychometry: probability based approach	Netaji Subhas Open Univ.	Awarded in 21.01. 2014
	Kiranmoy Chatterjee	Some contribution to the problem of estimation population size based on dual-record system	Indian Statistical Institute	Thesis Submitted 2016 (May)
	Suryasish Chatterjee	Nonparametric Methods in Cross-over Design	University of Calcutta	Registered in 2013

Table 3.7: Faculty members pursuing /recently concluded postdoctoral research

Department	Faculty Leading Research Projects	Title of the Project	Funding Body	Approval No. & Date	Major/ Minor Fund Amount ₹
Zoology	Susanta Nath	Effect of Arsenic on short horned grasshopper in relation to introduce these species as bioindicator	UGC	FNo.GO-375/2011 (ER) dt 5 th July 2011	Major 5,81,000
Zoology	Suman Mukherjee	Cellular and Metabolic Interaction of <i>Channa punctatus</i> and Arsenic	UGC	F.PSW-72/1213 (ERO) dt. 18.02.2013	Minor 1,28,000
Anthropology	Sudesna Chanda	On the variation of Primate hair histological characters	UGC	F.PSW-054/07-08 (ERO) dt 21.02.08	Minor 45,000
	Sankha priya Guha	Anthropology of urbanization; the rural- urban interphase in apartment houses in Kolkata city.	UGC	F.PHW-183/09-10 (ERO) dt 07.09.09	Minor 1,37,000
Economics	Sudeshna Chattopadhyay	Impact of WTO on Indian Garment Industry	UGC	PHW-140/12-13(ERO) dt 05.02.13	Minor 1,37,000
	Sudeshna Chattopadhyay	Environmental regulation & process subcontracting: a case study of gems	UGC	PHW-007/06(ERO) dt 15.01.07	Minor 85,000

	y	& jewellery manufacturing units in Kolkata			
Economics	Tina Barma	Land Reforms in Bulgaria and West Bengal: Similarities and Lessons Learnt	UGC	EPHW-179/09-10(ERO) dt 7.09.2009	Minor 1,11,500
Botany	Kausik Majumder	A biotechnological approach towards qualitative upgradation of Himalayan hand-made paper.	UGC	PSW-116/09-10 (ERO) Dated 08.10.2009	Minor 1,31,000
	Mousumi Mukhopadhyaya	Systematic study on the flora of bricks and rock constructions of Krishnanagar city (Nadia, West Bengal, India) and adjoining areas.	UGC	PSW-150/13-14(ERO) Dt. 18.03.14	Minor 1,10,000
	Sumona Mukherjee	Conservation and Documentation of Wild Biodiversity in Bethune College Campus and Surroundings.	WBBB	Memo No.316/4K(Bio)-1/2008 dt 22.07.09	Major 8,83,000
	Kajari Lahiri	Evaluation of nutritional value and antioxidant potential in relation to polyamines of some green leafy vegetables commonly used by the rural people of India.	UGC	F PSW-135/11-12 dt 25.01.12	Minor 1,97,000
	Subhadipa Sengupta	Community analysis of plant growth promoting endophytic microbial flora in different rice cultivars of West Bengal.	UGC	PSW-039/14-15(ERO) dt 2015	Minor 4,10,000

	Rama Prasad Bhattacharya and all other faculty members	Documentation of Biodiversity and Related Traditional Knowledge of the Wards 1 -10 under Bidhannagar Municipality.	WBBB	344/5K(Bio)-1/2010 Dated 08.08.2011	Major 98,700
Microbiology	Abul Kalam	Isolation of antimicrobial protein from Lactic Acid Bacteria and its potential application as a bio- preservative along with a combination of some natural products	W.B. DST	855 (Sanc)/ST/P/S&T/ /2G-1 /2011 dt 05.03.2012	Major 9,05,00 0
		Study of biologically diverse fungi from selected natural spot of South 24-parganas including East Kolkata wetland and their purification, identification, cataloguing and preservation.	Ministry of Environment , W.B.	EN/P/ 1248/T-VIII-2 /013/2010 dt 24.05.2011	Major 3,92,00 0
		Biopreservation Hilsa Fish by antimicrobial protein (amp) isolated from fermentative bacteria”	UGC	PSW-075/08-09 dt 12.12.08	Minor 1,19,00 0
		Characterization and Enhancement of phosphotriesterase & alkaline phosphatase activity of Eisenia foetida through soil amendments by trace elements and	Ministry of Environment , W.B.	EN/P/ 549/T-VIII-2 /009/2007dt 10.03.2008	Major 2,39,00 0

		nutrient qualities and their ultimate use in organophosphorous pesticide detoxification.			
Microbiology		Studies on agricultural applications of biopesticides in different combinations for the management of betal vine disease	W.B. Dept of Sci. & Tech	320 (Sanc)/ST/P/S&T/1G-7/2009 dt 2/9/2010.	Major 8,01,800
	Subhas Chandra Jana	Studies on Ca^{+2} independent thermostable beta amylase from mesophilic bacterium, <i>Bacillus sp. DJ₅</i> '	UGC	F.No.33-214/2007 SR dt 06.03.2008	Major 8,85,000
		Production of functional Dahi by isolated probiotic strain from breast fed human baby.	MFPI	No. 88 / MFPI/ R&D /2012 dt 04.02.2015	Major, 25, 22, 000
Bengali	Jayanta Mistri	Abadhut :Jibon o Sahitya	UGC	F.PHW-93/12-13(ERO) Dt-05.02. 2013	Minor 1,07,000
Physics	Soumyabrata Mondal	Some studies on electrification and plasma processes in the solar planetary atmosphere from reception of radio signals and model studies	UGC	F. No. PSW -114/14-15 (ERO) Dated 03.02.2015	Minor 1,40,000
Mathematics	Syamali Bhadra	An Empirical Analysis of Tax Gap in the Brick Fields in West Bengal	UGC	PSW-170/14-15(ERO) Dt-3/2/2015	Minor 2,50,000

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

The college has organised many seminars/workshops/training and sensitizing programmes with the objective to increase research capacity and outlook among students and faculty. These programmes help to spread awareness at the social level on issues requiring urgent address. This is reflected in the following programmes conducted by the college, details of which are given in Table 3.8 (Photograph .3.1).

Table 3.8: Seminars/workshops/special Lectures/ training and sensitizing programmes organised by the departments during 2010-2015

Department	Type of Programme	Topic	Resource Person/s	Funding Agency	Date
Whole College	Sensitizing Programme for Girl Students	legal literacy clubs, fundamental rights and creation of Legal Cadet Corps relating to eve teasing, cyber crimes	<ul style="list-style-type: none"> ➤ Addl. Chief Judicial Magistrate ➤ Chairman SDLSC Bidhannagar 	Legal Service Cell, WB	15.09.2013 at Barasat in Rabindra Bhavan
		Gynaecological Problems	<ul style="list-style-type: none"> ➤ Dr. S. Ramamurthy of Apollo Gleneagles Hospital Kolkata 	CIPLA & BNC	27.09.2013 in BNC
Anthropology	Invited Lecture	Human Evolution: Indian Evidences in Global Perspectives	<ul style="list-style-type: none"> ➤ Dr. A. R. Sankhyan Palaeoanthropologist 	BNC	03.02.2016
Bengali	National Level Seminar	Rabindranath o Samakalin Prasanga	<ul style="list-style-type: none"> ➤ Dr. Susnata Das ➤ Debshankar Halder ➤ Sumon Mukhopadhyay ➤ Dr. Pinakesh Sarkar ➤ Dr. Biswabandhu Bhattacharjee ➤ Procheto Gupta ➤ Debashi Bhattacharjee ➤ Sumita Chakrabarty ➤ Ashokendu Sengupta ➤ Sanjay Mukherjee 	UGC	9 th & 10 th Feb, 2012
	National level Seminar	Bangla Kabitae Pratibad	<ul style="list-style-type: none"> ➤ Dr. Aditya Kr. Lala ➤ Dr. Layek Ali Khan ➤ Kabi Tarun Sanyal ➤ Dr. Tapas Basu ➤ Debsankar Halder ➤ Subodh Sarkar ➤ Dr. Amalendu Chakraborty ➤ Jashodhara Roychowdhury 	UGC	20 th & 21 st Sept, 2013

			<ul style="list-style-type: none"> ➤ Ashokendu Sengupta ➤ Sabyasachi Deb 		
Botany	National Level Seminar	Plant Science Research in Human Welfare	<ul style="list-style-type: none"> ➤ Prof. P. I. Uniyal of Delhi University ➤ Prof. S. K. Bera of Birbal Sahni Institute, Lucknow ➤ Dr. P. Palit of CRIJAF, Barrackpore ➤ Dr. P. Singh of BSI ➤ Prof. N.D. Paria VC of Vidyasagar University 	UGC, & Botanical Survey of India	11, 12.01.2012
	Invited Lecture	Scope of Palaeobotany and Palynology	<ul style="list-style-type: none"> ➤ Dr. Ashalata D'Rozario Associate Prof. Narasinha Dutt College, Howrah 	BNC	30.01.2016
	Invited Lecture to Observe Science Day	Relevance & Prospects of Plant Biology	<ul style="list-style-type: none"> ➤ Prof. Animesh K. Datta Professor of Botany, Kalyani University 	Dept. of Botany	27 th Feb, 2016
	National Level Seminar	Teaching Botany in 21 st Century: Prospects and Challenges	<ul style="list-style-type: none"> ➤ Prof. SP Adhikary, Vice Chancellor, Fakir Mohan University, Balasore, Odisha ➤ Prof. Subhra Chakraborty, NIPGR, New Delhi ➤ Prof. Ruma Pal, CU ➤ Prof. Subir Bera, CU ➤ Prof. Gour Gopal Maiti, KU ➤ Prof. N. D. Paria, CU ➤ Prof Sandip Mukhopadhyay, CU 	UGC	6 th & 7 th Aug, 2016
Chemistry	National Level Seminar	Chemistry – A pathway to Biological Processes	<ul style="list-style-type: none"> ➤ Prof. P. S. Kalsi, Punjab University ➤ Prof. Uday Maitra, IISc, Bangalore ➤ Prof. Achintya K. Sarkar, Presidency College ➤ Prof. Kumares Ghosh. Kalyani University ➤ Prof. S. K. Chattopadhyay, BESU, Shibpur, Howrah ➤ Prof. Manju Roy, IACS, Kolkata ➤ Prof. R. Chakravarty, Bidhannagar College ➤ Prof. Dipankar Koley, CDRI. Lucknow 	UGC	24.9.2010 & 25.9.2010

Chemistry	State Level	'Acharya P. C. Ray- a Chemist and a Visionary'	<ul style="list-style-type: none"> ➤ Prof. D. C. Mukherjee, Calcutta University ➤ Prof. S. Bagchi, IISER, Kolkata 	BNC	05.01.2011
	National Level Seminar	Some Modern Aspects of Chemical Research- Grooming of UG & PG Student	<ul style="list-style-type: none"> ➤ Prof. S. Bagchi, IISER, Kolkata ➤ Prof. S. Ramakrishnan, IISc Bangalore ➤ Prof. K. Das, JU, Kolkata ➤ Prof. A. Basak, IIT –KGP ➤ Prof. B. C. Ranu, IACS, Kolkata ➤ Dr. A. Dataa, IIT-Bombay ➤ Prof. a. Ghosh, CU, Kolkata ➤ Prof. D. C. Mukherjee, CU, Kolkata 	UGC	7.2. 2012 & 8.2.2012
	National Level Seminar	Theoretical and Experimental Tools in Science – a Chemist's Approach"	<ul style="list-style-type: none"> ➤ Prof. U. Maitra, IISc Bangalore ➤ Prof. S. P. Goswami, BESU, Sibpur ➤ Prof. D. C. Mukherjee, CU, Kolkata ➤ Dr. R. Chakrabarti, BNC, Kolkata ➤ Dr. K. Maji, BNC, Kolkata 	UGC	6.9. 2013
English	Special/Invited Lecture	An Interactive Session on Active Shakespeare	<ul style="list-style-type: none"> ➤ Bikram Ghosh 	BNC	13.02.2012
	Special/Invited Lecture	Students' seminar and counselling	<ul style="list-style-type: none"> ➤ Prof. Minaskhi Krishnan 	BNC	18.04.2012
	Special/Invited Lecture	Please take it personally: Theory & Identity	<ul style="list-style-type: none"> ➤ Prof. Niladri Chatterjee 	BNC	10.09.2012
	Special/Invited Lecture	A talk on W. Blake	<ul style="list-style-type: none"> ➤ Prof. Subir Dhar 	BNC	14.09.2012
	Special/Invited Lecture	Basic concerns of modern linguistics	<ul style="list-style-type: none"> ➤ Prof. Indranee Ghosh 	BNC	06.12.2014
	Special/Invited Lecture	Third Theatre & breaking the 4 th wall		BNC	27.02.2015
	National Level Seminar	Literature in Translation	<ul style="list-style-type: none"> ➤ Prof. Saugata Bhaduri (JNU) ➤ Prof. Samantak Das (JU) ➤ Prof. Sanjukta Dasgupta (CU) 	UGC	2 nd & 3 rd Aug, 2013

			<ul style="list-style-type: none"> ➤ Prof. Anusuya Guha (Bethun College) ➤ Prof. Supriya Chaudhuri (JU) ➤ Chinmoy Guha (CU) ➤ Prof. Samik Bandopadhyay (JNU) 		
Geography	State Level	Evolution of cast system in India and its socio politics implecation	<ul style="list-style-type: none"> ➤ Prof. Aritra Chakrabarty (presidency University) 	BNC	21.12.2015
Microbiology	National Seminar	Recent Advances in Microbiology and Biotechnology	<ul style="list-style-type: none"> ➤ Dr. D.P Sarkar (University of Delhi) ➤ Dr. Gouri Shankar Ghosh (University of California) ➤ Dr. Upal Roy Choudhury (Jadavpur University) ➤ Dr. Niranjana Das (Punjab University) ➤ Prof. Subir Kundu (BHU) ➤ Dr. Tapas K. Hazra (University of Texas) 	UGC	14 th & 15 th January. 2012
Philosophy	State Level	Morality & its Extension	<ul style="list-style-type: none"> ➤ Dr. Avik Banerjee, Retd. Scottish Church College 	BNC	27.02.2015
Physics	National Level	Recent advances in the frontiers of physics	<ul style="list-style-type: none"> ➤ Prof. Ashoke Sen (HRI) ➤ Prof. Palash Baran Pal (SINP) 	UGC	14.09.2013

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

The prioritized research areas of some of the faculty members involved in research are given below which reflects their expertise in different fields.

- Food, Medical & Industrial Microbiology
- Microbial diversity & biopreservation
- Grasshopper and Fish Ecology and Toxicology
- Cytogenetics, Molecular Biology & Conservation
- Phytochemistry & Genotoxicity
- Biochemistry & Biotechnology
- Angiosperm Taxonomy & Biodiversity
- Primate histology
- Land Reforms
- Environment & Manufacturing units

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

Seminars and Symposiums organised by the Departments of this College bring in a number of eminent personalities and researchers from different institutions of repute as Resource Persons and Invited Speakers. Details are given in Table 3.8.

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?

None of the faculties of Bidhannagar College has utilized Sabbatical Leave for research activities. Hence the second part of the question stays Non-applicable.

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 else where to students and community(lab to land)

The institution has started taking initiatives of creating awareness and will be transferring the relative findings of research to the community through the following research projects undertaken by Dr. Subhas Chandra Jana

1. *“Studies on agricultural applications of biopesticides in different combinations for the management of betal vine disease”*
2. *“Production of functional Dahi by isolated probiotic strain from breast fed human baby”*

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.

NIL, but the college provides infrastructural facility to the researchers. Faculty members have their own research projects funded by different agencies like UGC, WBDST etc. 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?

No, since this is a Government College it has no financial autonomy and is bound by the West Bengal Financial Rules. Therefore, 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?

Since there is no financial autonomy, financial help cannot be provided to support research projects by students. But the college provides infrastructural facility including library facilities, computer laboratories with internet connections and well equipped laboratories to support student researchers.

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

The members of the faculty of Botany, Statistics, Mathematics, Microbiology departments interact regularly.

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

There is open access to use sophisticated instruments and equipments of the College by the faculties and students

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 College has received special grant from funding agencies like UGC, DST-FIST etc. for developing research facility. Details are given in section 6.4.4 and 6.4.3

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 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 3.7

3.3 Resource Facilities**3.3.1 What are the research facilities available to the students and research scholars within the campus?**

- Laboratories of the Science faculty are equipped with sophisticated instruments for the use of students and research scholars
- Computers with Internet facility are available in all departments.

- The Geography department has an RS-GIS Laboratory with several desktops for students' use
- A Central Library housing more than 53 thousand books and 40 journals.
- Access to online research journals through INFLIBNET in the library.
- Separate Seminar Libraries in all Departments.
- 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 strategies taken up by the College includes upgradation of laboratories and library, purchase of requisite equipments, providing space and setting up different academic and administrative committees of the Teachers Council and encouraging faculty members to participate in Faculty Development Programmes like Orientation Programme, Refresher Course, Seminar, Workshops, Symposium, Conference, etc. to stay up- to-date with new and emerging areas of research (Table 3.9).

Table 3.9: Faculty recharging strategies (UGC/ ASC, Refresher/ Orientation programs, workshops, training programs and similar programs (during last 5 years)

Department	Faculty	Programme/ Course	Year
Anthropology	Sankha Priya Guha	Refresher	2014
	Sudesna Chanda	Orientation	2012
		Refresher Programme	2013
Anthropology	Krishnendu Polley	Orientation Programme	2012
	Krishnendu Polley	Refresher Programme	2014
Botany	Dr. Kajari Lahiri	Refresher Programme	2013
	Dr. Kausik Majumder	Orientation Programme	2011
		Refresher Programme	2013
	Dr. Mousumi Mukhopadhyay	Orientation Programme	2011
		Refresher Programme	2013
		Refresher Programme	2015
Dr. Dwaipayan Sinha	Orientation Programme	2014	
Dr.Subhadipa Sengupta	Orientation Programme	2013	
Bengali	Lipika Saha	Refresher Programme	2011, 2014
	Jayanta Mistri	Refresher Programme	2015
English	Aniruddha Pal	Refresher	2010
Chemistry	Kaushik Maji	Orientation Programme	2015
	Tirtha Pada Majhi	Orientation Programme	2013
		Refresher Course	2015
	Anisur Rahaman Molla	Orientation Programme	2012

Department	Faculty	Programme/ Course	Year
		Refresher Course	2013
		Orientation Programme	2014
	Arabinda Mandal	Refresher Course	2015
		Orientation Programme	2014
	Shubhankar Samanta	Refresher Course	2015
		Orientation Programme	2014
	Susanta Kumar Manna	Refresher Course	2015
		Orientation Programme	2014
Economics	Tina Barma	Refresher Programme	2012
	Moumita Basu	Orientation Programme	2014
		Refresher Programme	2015
Geography	Rituparna Khan	Orientation Programme	2010
		Refresher Programme	2012
History	Swati Sen	Refresher Programme	2014
Mathematics	Ramkrishna Thakur	Orientation Programme	2015
		Refresher Programme	2014
Microbiology	Abul Kalam	Orientation Programme	2010
		Refresher Programme	2011
Philosophy	Sankalita Ghosh	Refresher Programme	2013
	Pradipta Mukhapadhyay	Refresher Programme	2010, 2014
Physics	Supriya Chatterjee	Orientation Programme	2013
		Refresher Programme	2015
Political Science	Suparna Sengupta	Refresher Programme	2012
Zoology	Suman Mukherjee	Orientation Programme	2012
		Refresher Programme	2014

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 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 in Table 3.10 (Photograph 3.5).





Photograph 3.5: Major instruments available in the College

Table 3.10: Major instruments purchased during last four years (< 100000)

Department	Instrument	Funding agency	Amount (₹)	Year
Botany	Laminar air flow	Govt. Grant	3,10,000	2013-14
Microbiology	FPLC (Fast Protein liquid Chromatography)	DST-FIST	9,88,918	2014-15
	Bio-safety Cabinet	DST-FIST	2,32,320	2014-15
	Cold Room 4°C	DST-FIST	6,90,680	2014-15
	High Speed Cold centrifuge	DST-FIST	1,80,064	2014-15
	-80°C Deep freeze	DST-FIST	4,26,313	2014-15
	CO2 incubator	UGC	4,40,000	2013-14
Zoology	Digital Microscope	UGC	1,69,000	2011-12

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

The College makes available the laboratory equipments, chemicals and access to the library as well as departmental seminar libraries. The College also encourages project work inside and outside the campus in various research institutes (Table 3.4). It ensures student participation in BITM, Oxford Book Store etc.

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

- Access to online research journals through INFLIBNET in the library
- Computers with Internet facility
- Seminar Libraries in each Department are made available to the researchers

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

None

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:**
Medical Microbiology research related to GBS is helping the community and is improving the service.
- ❖ **Research inputs contributing to new initiatives and social development:** Nil

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 initiated an Academic Journal, the details of which are as follows:-

Intelligentsia

Advisory Board

Chief Advisor	Dr. Subhas Chandra Jana	Officer – in Charge
Members	Prof. Elisabetta Marino	Dept. of English, University of Rome, Italy
	Prof. Sanjukta Dasgupta	Former Dean, Arts Faculty, CU
	Prof. Panchanan Das	Dept. of Economics, CU
	Prof. Chandan Mazumdar	CMP Division, Saha Institute of Nuclear Physics, Kolkata.
	Prof. Dulal Chandra Mukherjee	Former Professor, Dept. of Chemistry, CU.
	Prof. Nitai Chandra Mandal	Former Scientist, Bose Institute, Kolkata

Editorial Board

Editor (Arts Section)	Dr. Ketaki Datta	Dept. of English
Editor (Science Section)	Dr. Sumona Mukherjee	Dept. of Botany
	Dr. Ranjan Ghosh	Dept. of Physics
Members	Dr. Nikhil Chandra Pramanik	Dept. of Chemistry
	Dr. Anup Kumar Sengupta	Dept. of Mathematics
	Dr. Lina Sen	Dept. of Bengali
	Dr. Dola Chattopadhyay	Dept. of Economics
	Dr. Mousumi Mukhopadhyay	Dept. of Botany
	Dr. Sandip Bandyopadhyay	Dept. of Microbiology
	Sri Siddhartha Dey	Dept. of English
	Smt Shewli Sabnam	Dept. of Geography

Publication Policies: Journal will be peer-reviewed with two sections, one Humanities another Science. All articles to abide by the given format

Whether listed in any international database: Not yet

3.4.3 Give details of publications by the faculty and students:

The total number of publications by faculty members and students during 2010-2015, comprising papers published in peer and non-peer reviewed journals, monographs, chapter in books and books with or without ISSN/ISBN No. are 415. Although, during this period a large section of the faculty has either been transferred out to other colleges, or into or freshly posted to this college. The list of publications of faculty members during 2010-2015 has been summarised in the following Table 3.11.

Table 3.11: Publications by faculty members and students during 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. in International Level	No. in National level Journals	Others							
Anthropology	2	5	2	-	1	-	1	2	1	-
Bengali	2	29	-	-	-	-	7	-	-	4
Botany	8	3	-	-	9	-	-	5	-	-
Chemistry	57	8	-	-	-	-	-	-	-	-
Economics	2	4	-	-	1	-	-	1	-	-
Education	-	1	-	-	5	-	1	-	-	1
English	3	7	-	-	-	-	4	12	-	-
Geography	3	9	-	-	-	-	6	-	-	-
History	-	14	-	-	2	-	1	4	-	1
Mathematics	13	3	-	-	2	-	-	-	-	-
Microbiology	25	10	-	-	7	-	-	1	-	-
Philosophy	-	-	-	-	-	-	-	1	-	1
Physics	16	2	-	-	1	-	-	1	-	-
Statistics	5	1	-	-	-	-	-	-	-	-
Zoology	48	16	-	-	-	-	1	5	-	2

N.B. As Citation Index, SNIP, SJR, Impact factor, H-index and ISSN/ISBN No. belong to individual faculty members, these are given in the Departmental Profiles

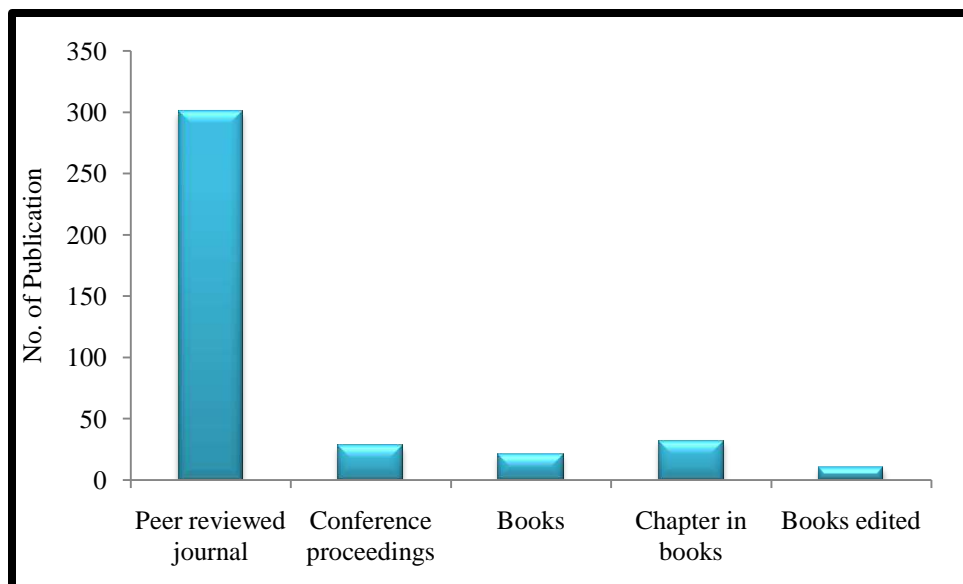


Figure 3.1: Publication profile of college teachers

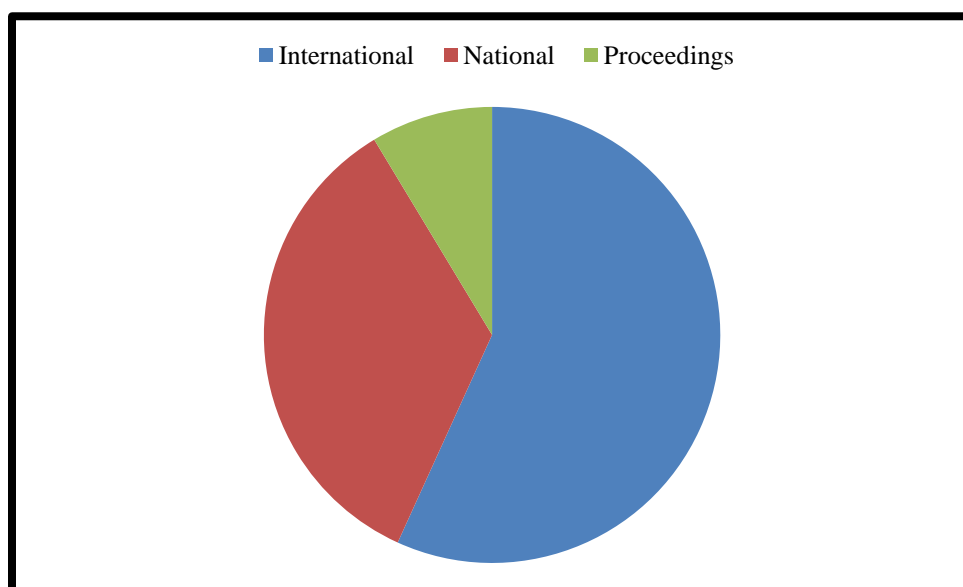


Figure 3.2: Publication in peer reviewed journals/proceedings

3.4.4 Provide details 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 3.12: Research awards / Recognition/ Incentives received by the faculty from reputed professional bodies and agencies, nationally and internationally

Department	Faculty	Research awards / Recognition/ Incentives received	Year
Anthropology	Sudesna Chanda	T.C Roy Choudhuri Memorial Silver Medal Award from Anthropological Society of India for Academic excellence in Anthropology in the year 2002.	2002
	Sudesna Chanda	ISCA Young Scientist Award at the Indian Science Congress in the year 2005.	2005
	Bandana Chakrabarti	Gold Medal by Calcutta University	2010
English	Ketaki Datta	Inducted in “Professional Women’s Advisory Board” Conferred by <i>American Biographical Institute</i> , North Carolina, U.S.A.	2005
Statistics	Kiranmoy Chatterjee	Travel Grant received from Indian Statistical Institute to present research paper in an International Conference held in Geneva, Switzerland	2014

3.5 Consultancy

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

As of now there is no such interface but the PG Departments plan to visit industries and Institutes of Technology to give the students an exposure

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

Being a Government College the faculty cannot advertise or advocate their expertise. However, they are free to provide consultancy service on an honorary basis. The expertise of the faculty is known through their published work

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

The institution encourage the staff to utilize their expertise through online means and during their preparatory days and holidays

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

The consultancy services are provided on an honorary basis by the faculty and therefore, no revenue is generated (Table 3.13)

Table 3.13: List of broad areas and major consultancy services provided by the institution during the last four years

Department	Faculty	Area of Consultancy	Year
Botany	Sumona Mukherjee	Reviewer of International Journals (i) Nucleus (Springer) (ii) JOURNAL OF MEDICINAL PLANTS RESEARCH	2012 2013-2015
		Member of the Board of Judges of JBNSTS	Since 2007
	Kausik Majumder	Reviewer of International Journals (i) Applied Microbiology & Biotechnology (Springer) (ii) Scientia Horticulturae (Elsevier)	2013-2015
English	Ketaki Datta	Associate Editor of 'Writers, Editors, Critics'[An International Bi-annual Journal of English Language and Literature], Kerala.[ISSN: 2231-198X]	2013
		Associate Editor of International Journal on Multicultural Literature, Kerala.[2231-6248]	2013
Statistics	Kiranmoy Chatterjee	Reviewer of International Journal i. Journal of Statistical Computation and Simulation (Taylor & Francis)	2015

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?

NA

3.6 Extension Activities and Institutional Social Responsibility (ISR)

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

The College promotes institution-neighbourhood-community network and student engagement, contributing to good citizenship, service orientation and holistic development of students through NSS. The College has a strong and active NSS committee since 2006. The present Unit Coordinator is Dr. Arun Jana, Associate Prof. of Physics. The NSS unit with Student volunteers is involved in different community works throughout the year for good of the neighbourhood and holistic development of the students, contributing to their becoming good citizens of India. In the session 2014-15, the NSS organized the following events (Table 3.14, Photograph 3.6)

The college further promotes institution –neighbourhood –community network through different research projects undertaken by College faculties. In this regard worth mentioning is the project entitled “Studies on agricultural applications of biopesticides in different combinations for the management of betel vine disease” undertaken by Dr. Subhas Chandra Jana of Department of Microbiology in which the concern of betel leaf cultivators is at stake.



Photograph 3.6: Events undertaken by the NSS wing of the College

Table 3.14 : Events organised by the NSS unit of the College 2011-2015

Title of The Programme	Date
▪ Seminar on “ <u>Philosophy of Vivekananda</u> ” and Quiz contest	19/07/2011
▪ Seminar on “ <u>Vermicomposting</u> ”	05/08/2011
▪ Observation of “Energy Conservation Day” alongwith the 4 th Renewable Energy and Energy Business Forum.	14/12/2011
▪ Thalassemia Awareness Programme and Screening Tests for Thalassemia.	07/03/2012
▪ Blood Group Detection Camp	07/03/2012
▪ Charitable Homoeopathic Treatment.	2011-2012
▪ Regular Beautification and cleaning Programme of the College and College Campus of Bidhannagar College.	15/08/2011, 10/12/2011 & 04/03/2012.
▪ Improvement of mathematics teaching	10.02.2013
▪ Free eye check up programme	12.03.2013 & 13.03.2013
▪ Prevention of HPV Infection and Cervical Cancer	19.02.2014
▪ Awareness Programme on AIDS	01.12.2014
▪ Seminar on Thalassemia & its Screening Test	25.03.2015
▪ Community and Life-style diseases awareness	30.03.2015
▪ Cleaning drive	31.03.2015

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

The College track students’ involvement in various social activities through different Teachers Council Committees like the NSS, Sports and Cultural Committees

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

The IQAC of the College organises a student-feedback questionnaire annually on quality of teaching-learning and infrastructure of the College. The result is considered for rectification, enhancement and incorporation of valid suggestions by respective departments and the College.

Parent teacher meetings are regularly held to update parents/guardians about their wards academic performance as well as their attendance.

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.

The extension and outreach programmes of the college are organised by the NSS unit. The budgetary details for last four years is given in Table 3.15

Table 3.15: NSS budgetary details for last four years

Events	Expenses (₹)	Year
<ul style="list-style-type: none"> • Seminar & quiz contest on Philosophy of Vivekananda on 19.07.2011 • Seminar on vermicomposting on 05.08.2011 • Observation of Energy Conservation Day on 14.12.2011 • Blood group detection camp involving 300 students & 40 staff on 07.03.2012 • Thalassaemia awareness & screening tests among 65 students on 07.03.2012 • Regular College cleaning, spreading bleaching powder in campus on 15.08.2011, 10.12.2011, 04.03.2012 	22,000	2011-12
<ul style="list-style-type: none"> • Improvement of mathematics teaching on 10.02.2013 • Free eye check up programmes on 12. & 13.03.2013 	Nil	2012-13
Prevention of HPV Infection and Cervical Cancer on 19.02.2014	Nil	2013-14
<ul style="list-style-type: none"> • Awareness Programme on AIDS on 01.12.2014 • Seminar on Thalassaemia & its Screening Test on 25.03.2015 • Community and Life-style diseases awareness on 30.03.2015 • Cleaning drive on 31.03.2015 	37,377	2014-15

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?

The students are encouraged by the faculties and head of the Institution to become members of NSS and participate in extension activities. The Coordinator and faculty members of the NSS unit also motivate the student to make the activities meaningful.

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 recent past (2013) the Department of Anthropology of the college interacted with the students of Shikshaniketan [an NGO imparting education to students of SC's and ST's and Kids of

Agriculture Labour Section (Economically Weaker Section)] and imparted them fundamental knowledge pertaining to the basic sciences.

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 outcome of the involvement of the students in NSS activities enables them to communicate with different levels in society, which make them sensitive towards social responsibilities and teaches them to be responsible citizens, thereby, contributing to the process of Nation building

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 participation in its activities?

The institution in its reach-out activities conducted through different undertaken through different community development oriented projects actively seeks participation of the community members who often act as informants or subjects to satisfy the objectives of the community oriented projects undertaken by Departments like anthropology, Microbiology and Political Science.

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 institution has not yet made any constructive relationships with other institutions of the locality for working on various outreach and extension activities

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.

The awards/recognitions received by the students for several extension activities are enumerated in Table 3.16

Table 3.16: Awards/recognitions received by the students during last four years

Department	Student	Activity	Award/Recognition	Date
Education	Bimal Rout	Speech	1 st Prize	2013
	Mahabub Islam	Presentation	Science Exhibition	2014
	Etimuni Chakma	Fashion Show Contest	1 st Prize	2014
Physics	Madhusudan Ghosh	Debate	3 rd Prize in debate in ABP Ananda	2015
	Rahul Podder, Tulika Goswami, Soma Maitra, Tithi Biswas and Tanima Das	Presented Poster at the State Level UGC sponsored Seminar held in Sarajini Naidu College, Kolkata, W. B.	Won First Prize for presentation	2013
Zoology	Rahul Podder	Presented Poster in the International Seminar organised by the Sidhu Kanhu Birsa University	Won Second Prize for Presentation	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 Department of Microbiology is undertaking a food related project “Production of functional dahi by isolated probiotic strain from breast fed human baby”. After successful completion of laboratory work and appropriate trial results the functional dahi will be promoted through the society “Dr. Subhas Mukherjee Memorial reproductive Biology Research Centre” for benefit of the common man.

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.

The “Dr. Subhas Mukherjee Memorial reproductive Biology Research Centre” has agreed to go for a MOU with the P.I. of the project (“Production of functional dahi by isolated probiotic strain from breast fed human baby”) after successful completion of laboratory work and discussion of the product.

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.

This point of industry – institution – community interactions on behalf of Bidhannagar College is not applicable as no such activities have been initiated of late.

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 have contributed in conferences organised by the college, details of which are given in Table 3.8

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

- a) Curriculum development/enrichment** The teachers of the College who are members of UGBOS of West Bengal State University actively take part in the development of the curriculum. The PG Departments of Chemistry, Microbiology and Zoology design their syllabi and introduce some Special Papers.
- b) Internship/ On-the-job training** Nil
- c) Summer placement** NA
- d) Faculty exchange and professional development** NA
- e) Research** Many of the faculty members are actively engaged in research work individually and in collaboration with other national and international institutes. These have resulted in several publications in national and international journals, which have been presented in the relevant section 3.4.3[Table 3.11]
- f) Consultancy** Academic enhancement and enrichment of the faculty as shown in Table 3.13.
- g) Extension** The College has successfully organized several extension activities as cited in section 3.6 and Table 3.14
- h) Publication** NIL
- i) Student Placement** NA
- j) Twinning programmes** NIL
- k) Introduction of new courses** From time to time proposals for introduction of new courses in UG and upgradation of existing UG courses to PG level are sent to WBSU and for their approval to the Higher Education Department, Govt. of WB. Chemistry department got approval and started PG course in 2014
- l) Student exchange** NIL
- 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. Any other relevant information regarding Research, Consultancy and Extension which the college would like to include.

Nature Club of the college “Prakriti Porichoy” under the aegis of WWF coordinated by one of the faculty was initiated from 2013

CRITERION-IV

INFRASTRUCTURE & 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-making in general or in particular rests with the Government of West Bengal, the College being purely a Govt. Establishment. Yet, the college has a role. Projects for expansion and/ or any change for the better are forwarded to the Higher authority for consideration and approval on the condition that they contribute to the state's general educational policy and vision. The following illustrate the point:

- Given the space-crunch after the introduction of new UG and PG Courses and in order that some new Departments may be set up or new courses introduced, the Govt. undertook the construction of a massive six storey with a floor area ofsq. ft annexed to the old building .
- Likewise, the laboratories, the DST-FIST grant have been utilized to update the existing facilities to ensure a better teaching-learning process.
- The administration makes use of software in major finance-related matters. Academically, the Departments also have started using IT infrastructure as far as developed (e.g. Internet use, software use) for supporting the teaching-learning process as well as the projects undertaken.
- Some smart classrooms have been set up in order that the students get more and more engrossed in the academic ambience thus created through the use of audio-visual means.
- The central library in the old building has shifted to the new building for the best use of the library potential, accessibility to the books being made free and easy. The old library set-up is of course there concerned exclusively with books meant for the Science Departments.

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.

The curricular and co-curricular activities of the college are the following:

- **Classrooms:** All the classrooms are equipped with black/white board, and if teacher requires, he or she uses ICT based Teaching method. Presently there are 27 classrooms,

15 laboratories and 04 instrument rooms. Class rooms have enough space and scope of proper ventilation with comfortable sitting and lighting arrangements.

- **Technology enabled learning spaces:** Eight Departments viz. Anthropology, Botany, Chemistry, Geography, Mathematics, Microbiology, Physics and Zoology is provided with SMART Class Rooms (funded from UGC – XI Plan). Each of these SMART Class Rooms is provided with Projection screens, interactive pen display, laptops and digital sound systems. Further, Department of Economics, Mathematics and Statistics are provided with Computer laboratory for the students.
- **Seminar Halls:** An air-conditioned auditorium (capacity: 300 persons) has been under construction on the 4th Floor of the new building for a multiplicity of uses it can be put to. Organizing seminars at the national, even international, level; cultural programmes; different shows; cultural exhibitions, counseling for academic courses and job opportunities – these are among them. This auditorium apart, there are two more halls with the same accommodation capacity; can be used for the same purpose.
- **Tutorial spaces:** The classrooms are used for tutorial purposes during slack Session in some departments.
- **Laboratories:** All Science subjects have set up modern laboratories with specialized equipments or Computer laboratories which enable students and teachers to pursue advanced research. High level experiments using Gel electrophoresis, column chromatography and many more are being done in the Zoology laboratory, Cold Centrifuge, ELISA Plate reader, Laboratories with bio-safety cabinet, CO₂ incubator, Cold Centrifuge, Electron Microscope, FPLC, Trans illuminator, are present in Microbiology laboratory,. Cathode Ray Oscilloscope, *Mathematica 7* and *Matlab 9* software are installed in Physics laboratory.
- **Medicinal Plants Garden:** The Botany department has been maintaining and augmenting a Medicinal Plant Garden within the College Campus.
- **Animal House:** Making of an Animal House is under consideration and will come up soon.
- **Specialized facilities and equipment for teaching, learning and research department-wise:**

Department	Specialised Equipments for Teaching Learning & Research
Anthropology	<ol style="list-style-type: none"> 1. Martin's Sliding Caliper 2. Martin's Spreading Claiper 3. Anthropometer 4. Mandibulometer. 5. Goneometer (Static) 6. Goneometer (Attachable) 7. Compound Optical Microscope

	<ol style="list-style-type: none"> 8. Horizontal needle. 9. Tubular Craneophore. 10. Cubic Craneophore 11. Osteometric Board 12. Spigmomanometer with sthetoscope. 13. Blood group testing and PTC trait testing kit 14. Dermatoglyphic kit. 15. Human Skeleton along with loose human bones. 16. Paleoanthropological Hominid Fossil casts 17. Prehisotric Stone tools (Original and Cast) 18. Digital Video Camera for fieldwork purpose. 19. Ethnographic models.
Botany	<ol style="list-style-type: none"> 1. Portable projector 2. PEN display and Sound system 3. DNA and Protein Gel Electrophoresis Unit 4. Trinocular Compound Microscope 5. Laminar air flow 6. Incubator – cum - shaker
Chemistry	<ol style="list-style-type: none"> 1. Routine laboratory instruments. 2. Rotary evaporator. 3. Spectrophotometer.
Economics	<ol style="list-style-type: none"> 1. Four computers with internet facility.
Education	<ol style="list-style-type: none"> 1. Computers. 2. Printer.
English	<ol style="list-style-type: none"> 1. Laptop. 2. Sound System.
Geography	<ol style="list-style-type: none"> 1. GIS & RS Software- QGIS Version 2.6. 2. Surveying Equipments-Dumpy Level, Prismatic Compass. 3. Arial Photographs and Satellite imagery.
Mathematics	<ol style="list-style-type: none"> 1. Computer with printer.
Microbiology	<ol style="list-style-type: none"> 1. Thermal Cyclor. 2. Lyophilizer 3. UV visible spectrophotometer. 4. CO₂ incubator. 5. Cold Centrifuge. 6. ELISA Plate reader. 7. Laminar air flow system. 8. Gel Electrophoresis apparatus with power pack. 9. Trans illuminator. 10. Digital Balance. 11. -20⁰ C Refrigerators.
Philosophy	<ol style="list-style-type: none"> 1. Computer Facility use jointly with Dept. of Education.
Physics	<ol style="list-style-type: none"> 1. Cathode Ray Oscilloscope. 2. Computers. 3. Printers.

	<ol style="list-style-type: none"> 4. Scanners. 5. Xerox Machines. 6. Laptop. 7. LCD Projector
Statistics	<ol style="list-style-type: none"> 1. Computer Facility 2. Projector.
Zoology	<ol style="list-style-type: none"> 1. Digital Microscope with photographic attachment for research study. 2. UV illuminator with head-gear protection for laboratory work and research study as well. 3. BOD incubator for maintaining constant temperature which is required for Drosopohila culture and toxicological research. 4. Autoclave is very important equipment especially for research study. 5. Microtome is one of the basic equipments in biology laboratories. Although microtomy is a very old technique in biological research field, it is still equally relevant and powerful evidence for today's research. 6. We have spinwin, the high speed centrifuge machine, requires very little space and reagents for any study. 7. The Department has its own glass distilled plant.

(b) **Extra -curricular activities:**

- **Sports:** A large football playground with an area of 7200 sq. ft. is available within college campus. Different games are played there with a cricket pitch at the centre and a concrete pitch for cricket net practice is present in one of the corners of the ground. Annual College sports are held every year for both outdoor and indoor games. Prizes and trophies are awarded to the successful participants in the annual sports meet. A special prize is awarded each year to the student for an outstanding performance in sports and games. College students also participate in Inter- government College Sports Meet and some individual students also have played in district level and others.
- **Outdoor and Indoor Games:** Provisions for outdoor games like Football, Cricket, Badminton, Athletics and indoor games like table tennis and carom are there in the college.
- **Gymnasium:** A newly build gymnasium, equipped with advanced fitness machines is functioning at the new building.
- **Auditorium:** An auditorium is being constructed in the New Administrative Building in the College with the motive of holding seminars workshops, awareness programme and cultural functions.

- **NSS:** The NSS unit initiates different social activities in Bidhannagar College and organizes various community outreach programmes.
- **NCC:** No such wing is available in our college.
- **Public speaking, communication skills development:** No specific wing exist in this college for meeting this purpose.
- **Yoga:** No such programme exists in the college now.
- **Health and Hygiene:** Active roles are played by the members of the College Maintenance and Beautification Committee and the NSS to maintain healthy, clean and hygienic condition of college. Under NSS students take active part in removing used litter from the campus. De-weeding and mowing of the college play ground is done in a regular basis. Appropriate measures are taken for regular disposal of lab-wastes.

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).

- In full session every classroom and laboratory is in use during college hours indicating the optimum use of the available space. Sometimes even spatial constraints are very much observed for academic activities. The College offers around nineteen full time programmes and two part time ones which is as many as the existing infrastructure permits.
- Further the college has made collaborative effort with NIELIT situated in the ground floor to arrange for Basic Computer training programme provided free of Cost to all the students of all the departments and even non teaching staffs.
- The computer network infrastructure at the college provides an efficient, high speed, campus wide intranet with secured accessibility for the teachers and students for academic purpose.
- Beyond college hours from 9 a.m to 6 p.m. as well as on Saturdays and Sundays, Courses related to NET – SET Training Programme, Distance Learning Programme conducted by Netaji Subhash Open University is organised within the College premise offering Undergraduate and post graduate courses.
- Teachers carry out active research in the college premises well beyond college hours.
- The academic curriculum also involves the regular conduct of seminars and workshops at different departments.
- On Sundays and holidays almost throughout the year public and competitive examinations conducted by UPSC, WBPS, School Service Commission, College Service Commission, IAPT and the Joint Entrance Council are held in the college premises.

- During Parliamentary, Assembly and Municipal elections, the college campus is requisitioned as DC-RC in relation to electoral conduct under the jurisdiction of District Electoral Officer.

The layout of the college is enclosed hereby:



Photograph 4.1: College campus layout

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

The ground floors of both buildings have ramps to meet the requirements of students with physical disabilities. The new building has provision for lifts.

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

No hostel facility for students in the college is available. One residential building is present within the college premises are provided for the maintenance staff of the college.

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?

- The students have access to medical advice and treatment from specialized medical practitioners at the Students' Health Home, a state-level autonomous health organization, on payment of a subsidized annual subscription of Rs. 5.00 only is for entire under graduate course.
- The Teachers' Council has a First Aid and Medical Emergency Committee to look after staff and student medical emergency situations.
- Occasional health and eye check up facilities have been arranged by the NSS Unit of the College.
- Regular seminars and workshops are arranged in the college by the NSS Unit for medical awareness of the students.
- Sick room facilities are provided.
- The State Government provides facilities of West Bengal Health Scheme for the Employees (both teaching and non-teaching) and has provided Health Cards on the basis of which they can avail immense medical benefit off campus.

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, Counseling and Career Guidance, Placement Unit, Health Centre, Canteen, recreational spaces for staff and students, safe drinking water facility, auditorium, etc.

- **IQAC:** College has an Internal Quality Assurance Cell for the supervision of teaching-learning process and overall infrastructural development of the college. The meetings of IQAC were held in the chamber of the Principal.
- **Grievance Redressal Unit:** A box is kept in front of the chamber of the Principal adjacent to the Students' Section for receiving the grievances of the students. A Grievance Redressal Cell under Teachers' Council resolve the grievances.
- **Women's Cell:** The Teachers' council of the college formed a committee under the *Visakha Guidelines* to redress the women related issues.

- **Counseling and Career Guidance:** A Career Counseling Committee functioning under the Teachers' Council organizes career guidance programmes for placements and to provide guidance regarding higher studies of the students. Recently psychological counseling is being done for both students and staff by a professional Clinical Psychologist.
- **Placement Unit:** There is no separate placement unit in the college.
- **Health Centre:** The students have access to medical advice and treatment from specialized medical practitioners at the Students' Health Home, a state-level autonomous health organization. The college has no separate health centre as of date.
- **Canteens:** One canteen is running successfully within the college campus, providing healthy and hygienic food to the students and staff at a subsidized rate.
- **Recreational spaces for staff and students:** A Gymnasium with modern facilities is provided for staff and students. Apart from this, the students have separate Common Rooms for Boys and Girls.
- **Safe drinking Water facility:** Every floor of the college building has provision for clean drinking water from aquaguard water purifier. A few cooler-cum-purifiers are also there. Provisions are also there in the new building.
- **Auditorium:** An air-conditioned auditorium (capacity: 300 persons) is under construction on the 4th floor of the new building for a multiplicity of uses.

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?

There is a Library Advisory Committee formed under the Teachers Council.

Library Committee:

1. Librarian (Convenor).
2. Prof. Lina Sen (Dept of Bengali)
3. Prof. Harekrishna Datta (Dept of Geography)
4. Prof. Jayanta Mistri (Dept of Bengali)

The library advisory committee provides the support required for the sustainable development of the College library.

4.2.2 Provide details of the following:

- **Total area of the library (in Sq. Mts.):** 600.9 sq. m.



Photograph 4.2: Students in library

• **Total seating capacity: 50**

• **Working hours**

- | | |
|------------------------------------|-------------------|
| 1) Working Days: | Monday – Saturday |
| 2) Holidays: | Closed |
| 3) Before Examination days: | 10.15-4.30 |
| 4) During Examination Days: | 10.15-4.30 |
| 5) During Vacation: | 12 noon – 4 pm |



Photograph 4.3: Reading room facility in Central 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 College library has an enriched collection providing its users. The books and other printed materials are purchased in the library as soon as funds come from State Govt. or UGC keeping in mind the syllabi of the courses run in the college itself. The Library advisory committee takes a vital role in the whole process of purchase.

The purchase policy of books and periodicals every year particularly on the fund distribution is decided over by in a meeting conducted by the Principal and actively participated by The Teachers Council Secretary, Respective Departmental Heads and Library Advisory Committee. Following the distribution of funds allotted from Development Grant from Higher Education Department, Government of West Bengal as well as UGC, the book suppliers and distributors submits respective books to the departments for verification. Following the selection of books by different departmental teachers, book suppliers submit the ordered book with respective bills to the library which is processed further to the office for financial issues and the book is purchased.

ALLOTMENT FOR LIBRARY (LAST FOUR YEARS)

YEAR	Type of Fund	Amount allotted in Rupees	Amount utilized in Rupees
2011-2012	Development grant	500000	500000
	UGC	NIL	NIL
2012-2013	Development grant	1500000	1500000
	UGC	NIL	NIL
2013-2014	Development grant	400000	400000
	UGC	100000	100000
2014-2015	Development grant	200000	200000
	UGC	NIL	NIL

LIBRARY HOLDINGS (LAST FOUR YEARS)

<u>YEAR</u>	<u>NUMBER</u>
2010-11	48533 (48493 Books +40 Journal)
2011-12	49528
2012-13	52131
2013-14	52752
2014-15	53309

BOOKS RECEIVED AS GIFT DURING LAST FOUR YEARS**4.2.4 Provide details on the ICT and other tools deployed to provide maximum access to the library collection?*****OPAC***

OPAC (Online Public Access Catalogue) facility exists in the library by which the user can know the status of a particular document.

Electronic Resource Management package for e-journals

The College has subscribed the membership of INFLIBNET-NLIST.

Federated searching tools to search articles in multiple databases

No

Library Website

The College website has a link to Library of the College.

In-house/remote access to e-publications No

4.2.5 Provides detail on the following items :

Library Utilizations:

<i>Average number of walk-ins</i>	50
<i>Average number of books issued/returned</i>	45
<i>Ratio of library books to students enrolled</i>	53309: 1699
<i>Average number of books added during last three years</i>	1229
<i>Average number of login to OPAC</i>	10
<i>Average number of login to e-resources</i>	20
<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.

Details of “weeding out” of books and other materials Badly damaged books and documents (news papers magazines etc.) are kept apart in some other places within the Library.

4.2.6 Give details of the Specialized services provided by the library :

<i>Manuscripts</i>	No service is available.
<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>	N.A
<i>Information deployment and notification</i>	N.A
<i>Printing</i>	The library does not provide any printing facility to the users.
<i>Reading list/Bibliography compilation</i>	The library provides access to bibliographic database under NLIST programme.
<i>In-house/remote access to e-resources</i>	The library provides access to more than 97,000 eBooks and over 6000 e journals under NLIST programme.
<i>User Orientation and awareness</i>	The Library Software KOHA is used in the Library. Library staff always helps the users to know the way of use of the Library Catalogue through OPAC (Online Public Access Catalogue) and to 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.

Assistance in searching Databases

Staffs of the Library always help the users to search databases whenever they require.

INFLIBNET/IUC facilities

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.

Support provided by the library staff:

The library staff of the college has an unbiased and non-prejudiced mindset being at the receiving end to satisfy the needs of the users. They are friendly and always at their best to help users who have problems locating what they need in the library.

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 offers by the library to the Visually/Physically challenged persons? Give details.

Most of our users are normal. If situation arises the library will restructure its service pattern

4.2.9 Does the library get the Feed-back from its users? If yes, how is it analysed 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?)

Information related to feedback are 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 as a centralized system from users' perspective considering the way in which the users view a particular phenomenon and how and why they consider different aspects of library service positively or negatively. 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>	Total 74 number of assembled computers and, laptop and are available at the College. Of these configuration, the most functions with Operating system of Microsoft Windows-7 or above. The Latest Office software is loaded in each machine. While the processors in some of the machines are of older configuration, the laptops are fitted with Intel Core2 duo or Core i3 processor.
<i>Computer-student ratio</i>	1: 6 (74: 446)
<i>Stand-alone facility</i>	Network facility
<i>LAN facility</i>	Total 32 computers of the college has LAN connectivity
<i>Wifi facility</i>	
<i>Licensed software</i>	GIS software in the Department of Geography, KOHA open source software (LMS) in Library, HRMS software in Office.
<i>Number of nodes/ computers with Internet facility</i>	The institution has altogether 46 computers with Internet facility

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

Details of the Computer Infrastructure is represented in the following table

Department/section	No. of Users	No. of functional computers	Internet facility
Anthropology	All teachers and students	02	Available
Physics	All teachers and students	07	Available
Library	All teachers and students	03	Available
Chemistry	All teachers and students	03	Available
Economics	All teachers and students	04	Available
Zoology	All teachers and students	06	Available
Mathematics	All teachers and students	07	Available
Microbiology	All teachers and students	03	Available
Statistics	All teachers and students	11	Available
Education	All teachers and students	0	Available
Botany	All teachers and students	02	Available
Political Science	All teachers	01	Available
English	All teachers	01	Available
Office of the Principal	All Staffs	05	Available
Student Section	All Staffs	03	Available
Seminar Room	All Teachers	02	Available
Computer Room	All Teachers	12	Available
Principal's Room	Principal	02	Available
Total		74	

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

Bidhannagar College looks out for excellent performance both in academic and co-curricular activities. Accordingly, plans and strategies are made with effort to execute so as to upgrade application of IT infrastructure in different activities of the institution is it academic or administrative. Some of the areas in which focus will be made for deploying and upgrading in future are as follows:

- Has a future plan of Introducing of CMIS (College Management Information System) for better Management of the Institution.
- Setting Up of detailed Teachers database showing all information related to Academic and Research Area.

Introducing Wide Area Network (WAN) using structured cabling connecting the existing Building and the New Administrative Building.

- Regular Updation of 'HRMS' (Human Resource Management System).

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).

2011-2012

Procurement of computers, laptops, printers, accessories:	Rs. 273 963
Antivirus software:	Information Not available
AMC of computers and its accessories:	Information Not available

2012-2013

Procurement of computers, laptops, printers, accessories:	Rs. 5,41,5000/-
Antivirus software:	Rs. 9260/-
AMC of computers and its accessories:	Rs. 23150/-

2013-2014

Procurement of computers, laptops, printers, accessories:	Rs. 419810/-
Antivirus software:	Rs. 9420/-
AMC of computers and its accessories:	Rs. 24060/-

2014-2015

Procurement of computers, laptops, printers, accessories:	Rs. 1,76,124/-
Antivirus software:	Rs. 23150/-
AMC of computers and its accessories:	Rs. 60899/-

2015-2016

Procurement of computers, laptops, printers, accessories:	Rs. 2625/-
Antivirus software:	Rs. 31102/-
AMC of computers and its accessories:	Rs. 20875/-

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?

- (i) Teachers are using facilities of Smart Class Room provided in some departments in the College.
- (ii) Some of the teachers are using laptops & LCD projector, in the class room. Certain departments are using different academic softwares for advanced learning of their students.
- (iii) Students are provided facilities of e-library under the supervision of the Teachers in some of the departments in the College.
- (iv) Students enroll in fully subsidized basic training Computer Course conducted by NIELIT, so that e-learning process can be comfortable for them.

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.

The Institution has incorporated new technological devices for related to ICT for placing the students in the Centre of Teaching Learning process and render the role of facilitator for the Teacher. The list of the incorporations is hereby mentioned.

- Advanced Teaching Aids of different Types are being used in the classrooms of some departments like:
 - a) Devices of Smart Class Room
 - b) Laptop
 - c) LCD Projector
 - d) Television with DVD Player.
- Teachers can also access a good number of International as well as National level journals using INFLIBNET N-List facility to acquire an updated knowledge regarding their research activities.

However, it is to be stated that to put a student in the Centre of Teaching Learning Process, teachers' effort, knowledge base, and guidance is the key which is to be complemented by the ICT enabled systems.

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?

College library uses N-LIST programme to facilitate the teachers in using service and avial access to established journals.

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)?

The Different sources of funds for smooth running of the Institution include the followings:

- (i) Development Grant from Government of West Bengal.
- (ii) UGC
- (iii) DST – FIST

In regard to non-plan expenditure, the college receives grants form Government of West Bengal for payment of salaries for the staffs. In regard to the fund generated from the Development Grant of Government of West Bengal on different Heads viz. Books, Equipments, Chemicals & Glasswares, Furniture, Travelling & Conveyance as well as Contingency, the fund is distributed to the different departments, Office of the Principal, Library and other required places. The modalities on distribution of fund is made through different meetings held in the Principal's Chamber attended by the Teachers Council Secretary, Heads of different Departments and Librarian.

The Principal/ and the Purchase Committee constituted under the Teachers Councils monitors and executes the modalities of expenditure. The grant disbursed from Government of West Bengal gets audited by the office of the Auditor General, Government of West Bengal.

In regard to the expenditure generated from grants received from UGC and DST – FIST, the modalities are made and monitored by committees constituted by the Principal. in this regard. The audit related to this expenditure is carried out by reputed Chartered Accountants and the audited Utilization Certificate is sent to sanctioning Authority.

DETAILS OF BUDGET ALLOCATED DURING THE LAST FOUR YEARS

Table 4.1: Development grants, Govt. of West Bengal (Plan Expenditure)

YEAR	HEADS OF EXPENDITURE	AMOUNT SANCTIONED (In Rupees)	AMOUNT UTILIZED (In Rupees)
2010-2011	BOOKS	250000	250000
	EQUIPMENTS	900000	891431
	CHEMICALS & GLASSWARES	700000	699346
	FURNITURE	500000	499343
	TRAVEL	137700	75232
	CONTINGENCY	50000	49975
2011-2012	BOOKS	500000	500000
	CHEMICALS & GLASSWARES	1200000	1199497
	EQUIPMENTS	1400000	1399276
	FURNITURE	800000	799406
	TRAVEL	137000	105823
	CONTINGENCY	100000	99754

DEVELOPMENT GRANTS, GOVT OF WEST BENGAL (Plan Expenditure) [Contd]

YEAR	HEADS OF EXPENDITURE	AMOUNT SANCTIONED (In Rupees)	AMOUNT UTILIZED (In Rupees)
2012-2013	BOOKS	1500000	824083
	EQUIPMENTS	1500000	1222396
	CHEMICALS & GLASSWARES	1500000	1444591
	FURNITURE	1106458 1500000	1097532 (admin approval) 1485334
	TRAVEL	167000	25023
	CONTINGENCY	100000	92601
2013-2014	BOOKS	400000	399954
	CHEMICALS & GLASSWARES	700000	697437
	EQUIPMENTS	800000	738355
	FURNITURE	1000000	998534 (non plan)
	TRAVEL	167440	Nil
	CONTINGENCY	100000	91712

DEVELOPMENT GRANTS, GOVT OF WEST BENGAL (Plan Expenditure) [Contd]

YEAR	HEADS OF EXPENDITURE	AMOUNT SANCTIONED (In Rupees)	AMOUNT UTILIZED (In Rupees)
2014-2015	BOOKS	150000	149900
	EQUIPMENTS	200000	199778
	CHEMICALS & GLASSWARES	300000	294330
	FURNITURE	3312290	3312227
	TRAVEL	Nil	Nil
	CONTINGENCY	100000	99990
2015-16	BOOKS	150000	150000
	EQUIPMENTS	250000	249273
	CHEMICALS & GLASSWARES	300000	299114
	FURNITURE	Nil	Nil
	TRAVEL	Nil	Nil
	CONTINGENCY	100000	99951

UGC
XI th – 5 Year Plan Documents (2007-2012)

Sl. No.	HEADS OF EXPENDITURE	AMOUNT SANCTIONED (In Rupees)	AMOUNT UTILIZED	REMARKS
1`	BOOKS & Journals	340,000	340000	
2.	EQUIPMENTS	4419000	4393192	
3	FIELDWORK/STUDY TOUR / EXT ACTIVITIES	76832	76584	
4.	INTERNET	12000	11169	
5	UGC – NET (Recurring & Non – Recurring)	240000	239673	Rs 147/- Excess Spent on NET Recurring
6	Career Counseling	140000	131940	
7.	UGC Network Upgradation of Computers/Purchase	90000	90000	Rs 270/- Excess Spent
	Total	5317832	5282558	

***Audit of the related UGC A/c (XI Plan) was done on 30/8/2011 & 27/9/2011**

UGC
XII th – 5 Year Plan Documents (2012-2017)

Sl. No.	HEADS OF EXPENDITURE	AMOUNT SANCTIONED (In Rupees)	AMOUNT UTILIZED	UNUTILIZED AMOUNT (TILL DATE)
1	BOOKS & JOURNALS	312112	99847	212265
2	EQUIPMENTS	170000	52366	117634
3	IQAC	300000	NIL	300000
4	NET TRAINING (RECURRING)	50000	NIL	50000
5	NET TRAINING (NON RECURRING)	50000	NIL	50000
6	EXTENSION ACTIVITY / FIELD WORK / STUDY TOUR	120528	NIL	120528
7	BARRIER FREE EDUCATION	100000	NIL	100000
	TOTAL	1102640	152213	950427

- **Tenure is yet to be complete**

DST – FIST - Programme**Date of implementation:** 18/10/2013**Sanction order No:** SR/FST/College-122/2012(C) of 30.9/3013**Date of Grant received:** 18/10/2013**Allotted amount with date:** 52.5 lacs on 18/10/13**Amount of expenditure year wise:**

Financial year	Fund Allotted	Fund Utilized
2013- 14	Rs. 52.5 lacs	fund utilized in 2014 -15 session
2014 -15	fund allotted in 2013 -14 session	Rs. 2,663025/-

No. of Instruments: 9 (Nine)**List of Instruments (above 1 lacs):**

FPLC, Bio safety cabinet, Cold room, High speed cold centrifuge, -80 ° Deep freeze, Rotary evaporator with vacuum pump.

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

The institution does the following to maintain and upkeep of infrastructure, facilities and equipments in the College.

- Annual Maintenance Contracts (AMC) are made for different utility equipments in the college such as computers in different departments, different laboratory instruments, Water Purifier machines, etc. Which are renewed regularly to ensure their good service.
- All computers of the college are provided with UPS back up.
- Laboratory Equipments like Microscope, both simple and compound are cleaned at regular intervals to ensure proper functioning during classes and examinations.
- Dedicated and Secure place is allotted for keeping High value equipments and tools.
- Centrifugation instruments are kept dust free in an air-conditioned room to maintain its sensitivity. Both the rotor heads (centrifugation tube, Ependorff tube) are used alternatively for proper maintenance.

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.
- Simple and Compound Microscopes are the indispensable instrument in the department of Microbiology, Botany and Zoology. All the objectives and eyepieces of microscopes are cleaned at regular intervals for effective academic purpose. Throughout the year general maintenance is carried out by the students and the Group D staffs in the respective Departments.
- Shaker used in the Tissue Culture laboratory is kept in put on condition sometimes at a stretch of 24 hours for the suspension culture process.
- Centrifuge instruments are kept dust free in an air-conditioned room to maintain its sensitivity. Both the rotor heads (centrifugation tube, Ependorff tube) are used alternatively for proper maintenance.
- Lamps for UV-Vis Spectrophotometer for different wavelength of light is maintained and checked at regular intervals.
- Submarine and vertical gel are maintained periodically.

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

- We are using solar energy in our institution as a clean, renewable and sustainable source of energy.
- Cleanliness is the foremost priority in all the departmental laboratories as well as computer laboratory. Dust free environment is maintained as far as possible. In some of the PG laboratories of Microbiology and Zoology AC machine is installed for maintaining the dust free environment of the laboratory.
- All laboratories are provided with fire extinguisher.
- All the computers in the institution is provided with back up support.
- A distilled water production unit is provided in the terrace of the college.
- Provision of Rain Water Harvesting is maintained by the Department of Botany in the College.
- All sensitive instruments in the Laboratories in different departments are provided with inbuilt voltage stabilizer to protect from voltage fluctuation.

Other Highlights:

- A new Post Graduate course in Chemistry has successfully started from the 2012-2013 academic session.

- The College has its own website launched in 2011 which provides detail information on different academic, co-curricular and administrative spheres and the website is updated at regular intervals. Website address is: <http://www.bidhannagarcollege.org>
- The non teaching staffs and students are provided subsidized Basic Computer Training Course from NIELIT in the ground floor of the Old College Building.
- A new Electric Power Station is in the process of installation by WBSEDCL for providing power back up of the new Administrative Building.
- To enhance the research opportunity in Life Science Department, a proposed Animal House is to be set up adjacent to the College Building.
- The Physical Education room is to be relocated adjacent to the College Play Ground with new and improved gadgets of physical training and better infrastructure.
- Some of the Academic Departments are to be relocated in the New Administrative Building to overcome spatial constraint and provide better academic infrastructure in relation to the Teaching – Learning process.

CRITERION-V

STUDENT SUPPORT & 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 updated prospectus annually before the admission process to the 1st Year of under graduation (UG) program takes place to provide overview information of the College.

Through the prospectus, the students are made aware of the following features of the College:

- Historical background and general information of the College.
- Courses offered (Honours) with general subject combinations in the College.
- Admission procedure & College rules for admission with details of fess structure of both UG and PG admission.
- Rules and Code of Conduct for the students to follow.
- Academic Action Plan of the College.
- Information on different Infrastructural facilities like Library Facilities, Sports and Games, Canteen, Seminars organised, Financial Aid, Computer Training, Banking Facilities, Prizes & Awards, Students Union, National Service Scheme (NSS) & Career Counseling & Placement Cell.
- List of Faculties in the College as well as Non – Teaching Staff.
- List of Successful Alumni in the College.

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

The different types of financial aids provided to the financially backward but meritorious students are

- ❖ **SC/ST Post Matric Scholarship**
- ❖ **Chief Minister Relief fund**
- ❖ **Minority Scholarship**
- ❖ **Merit cum Means**
- ❖ **Others**

Apart from these aids, the economically backward unmarried girl students are brought within the ambit of “*Kanyashri Prokolpo*” a State Government funded Development Scheme.

Some prizes or awards are given to the students who obtain highest marks in various subjects or disciplines.

- *Arati Mukherjee Award* donated by Inner Wheel Club of Salt Lake City.
- *Ashutosh Das Memorial Prize* from 2005
- *Chanchal Kumar Brahma Memorial Prize*

- *Endowment Prize* in Bengali sponsored by Sudhindra Chandra Debnath, former Professor of Bidhannagar College.

Table 5.1: AWARDS AND PRIZES

YEAR	NAME OF THE AWARD	ELIGIBILITY CRITERIA	NO. OF BENEFICIARY	AMOUNT DISBURSED in ₹
2010-2011	Arati Mukherjee Memorial Award	Highest Marks in English, Bengali, Economics, Physics, Mathematics	05	2500
	Ashotosh Das Memorial Award	Highest Marks in Mathematics	01	
2011-2012	Arati Mukherjee Memorial Award	Highest Marks in English, Bengali, Economics, Physics, Mathematics	05	2500
	Ashotosh Das Memorial Award	Highest Marks in Mathematics	01	
2012-2013	Arati Mukherjee Memorial Award	Highest Marks in English, Bengali, Economics, Physics, Mathematics	05	2500

Table 5.2: STUDENT AID / SCHOLARSHIP BENEFICIARIES

SCHEMES	YEAR				
	2010-11	2011-12	2012-13	2013-14	2014-15
SC/ST POST MATRIC SCHOLARSHIP	78	92	60	115	34
CHIEF MINISTER RELIEF FUND	2	1	1	1	5
MINORITY SCHOLARSHIP	7	8	5	16	16
MERIT CUM MEANS	103	109	76	128	20
KANYASHREE PROKOLPO	-	-	-	-	26
OTHERS*	2	2	10	18	9
TOTAL NO. OF BENEFICIARIES	192	212	152	278	110
TOTAL FUND DISBURSED	1559600	1732600	1205800	2113400	549400
TOTAL NO. OF STUDENTS IN THE COLLEGE	713	815	754	775	802
PERCENTAGE OF BENEFICIARIES	26.92	26.01	20.15	35.87	13.72

*‘OTHERS’ include J.D. Birla Scholarship, Jindal Scholarship etc.

1. Eligibility Criteria:

a) SC/ST Post-Matric Scholarship	Scheduled Caste (SC) and Scheduled Tribe (ST) students will receive this financial assistance. Annual income of parents should not exceed Rs. 2,00,000/- per annum.
b) Minority Scholarship	Students from Minority communities taking admission in any recognized college or University will receive this financial assistance. They must obtain 50% marks in the last final examination of Board or University. Annual income of father / guardian must not be more than Rs 2,50,000/- .
c) Merit cum means Scholarship	The students must obtain at least 75% marks in the Higher Secondary Examination and their annual family income is Rs.80,000/- or less.
d) Kanyashree Prokolpo	Unmarried girls students of 18-19 years age group pursuing higher education from any government recognized educational institution will receive one time financial assistance of Rs. 25,000/-. Annual income of parents should not exceed Rs. 1,20,000/-.

2. Category of scholarship:

- a) Central Government :** SC-ST Post Matric Scholarship
b) State Government: Merit cum Means scholarship, Minority scholarship, Kanyashree Prokolpo.

5.1.3 What percentage of students receives financial assistance from state government, central government and other national agencies?

The following table shows the percentage of total number students received financial assistance for the academic sessions of 2010-11, 2011-12, 2012-13, 2013-14 and 2014-15.

Table 5.3.A: Students received financial assistance

Year	Total no. of eligible students received financial assistance	Percentage of students received financial assistance
2010-11	192	26.92
2011-12	212	26.01
2012-13	152	20.15
2013-14	278	35.87
2014-15	110	13.72

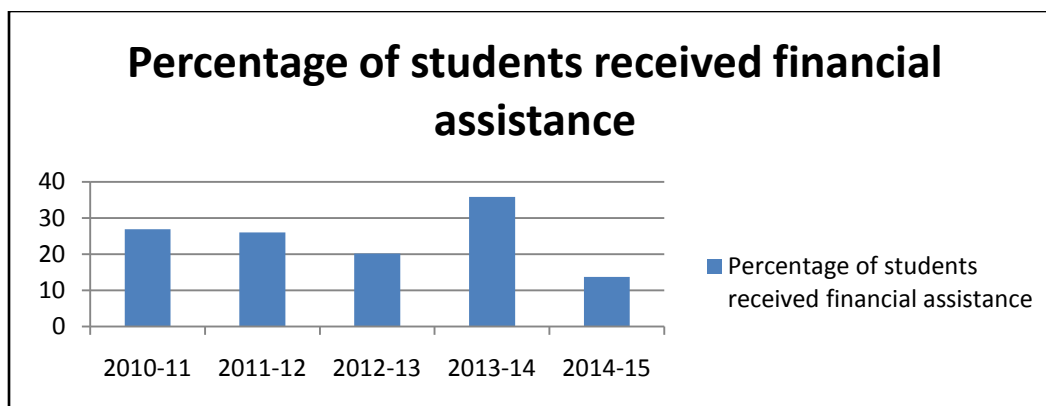


Figure 5.1 Percentage of students received financial assistance

Table 5.3.B1 illustrates the percentage of scholarship holders received financial assistance from different sources. In addition, Table 5.3.B2 and Pie Charts are used to represent the percentage of scholarship holders received financial assistance from the State Government, Central Government, and other private agencies for the academic sessions of 2010-11, 2011-12, 2012-13, 2013-14 and 2014-15.

Table 5.3.B1: Different Sources of Financial Assistance

Year	Percentage of scholarship holders received financial assistance from different sources					
	SC/ST Post Matric Scholarship	Chief Minister Relief fund	Minority Scholarship	Merit cum Means	Kanyashree Prokolpo	Others
2010-2011	40.62	1.04	3.64	53.64	Not Applicable	1.04
2011-2012	43.40	0.47	3.77	51.41	Not Applicable	0.94
2012-2013	39.47	0.66	3.29	50	Not Applicable	6.58
2013-2014	41.36	0.36	5.75	46.04	Not Applicable	6.47
2014-2015	30.91	4.54	14.54	18.18	23.63	8.18

Table 5.3.B2: Financial Assistance from State Government, Central Government and Other Private Agencies

Year	Percentage of scholarship holders received financial assistance from State Government, Central Government and Other Private Agencies		
	State Government	Central Government	Others
2010-2011	58.32	40.62	1.04
2011-2012	55.65	43.40	0.94
2012-2013	53.95	39.47	6.58
2013-2014	52.15	41.36	6.47
2014-2015	60.90	30.91	8.18

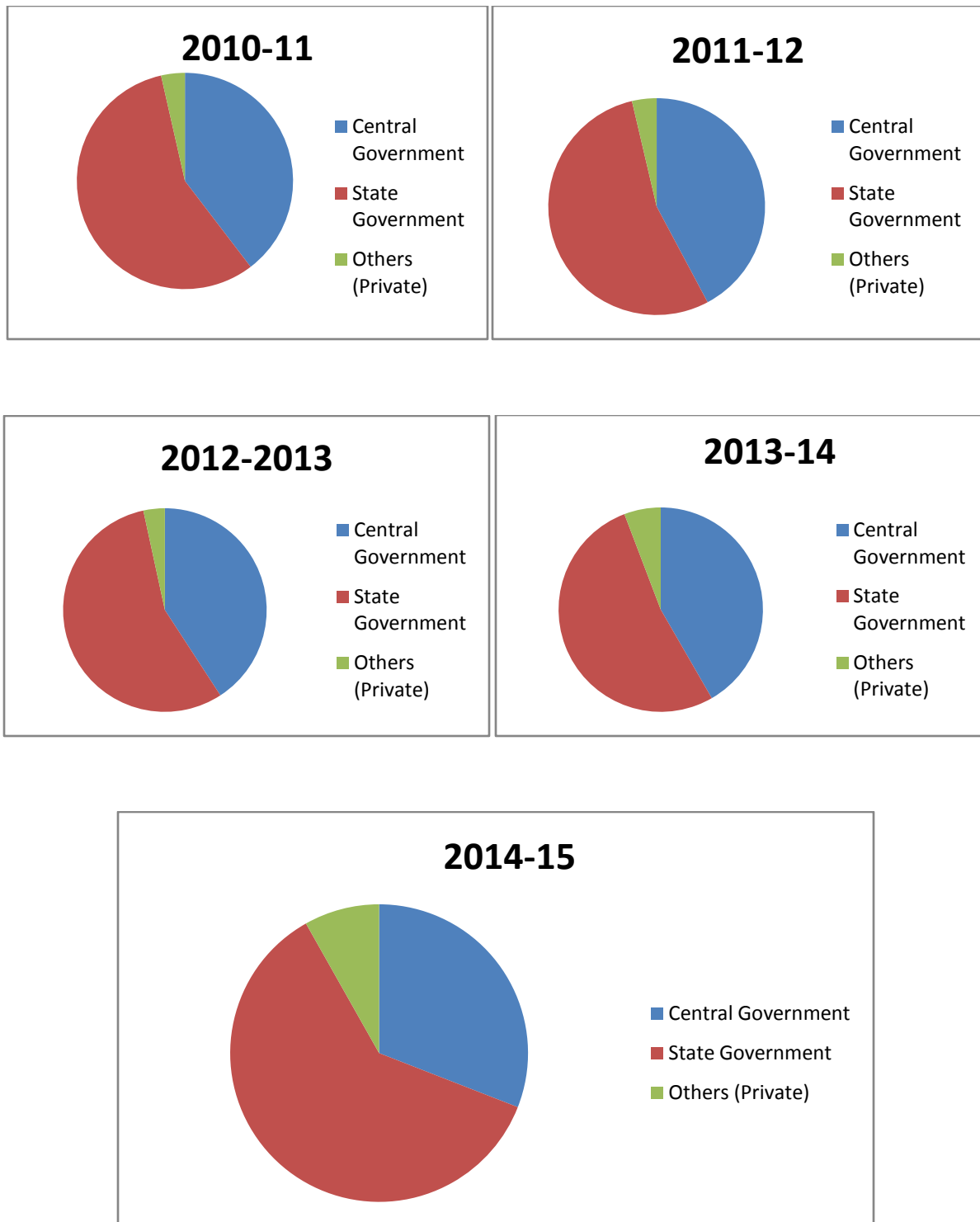


Figure 5.2 Percentage of scholarship holders received financial assistance from Central Government, State Government and Other Private Agencies

5.1.4 What are the specific support services/facilities available for

i) Students from SC/ST, OBC and economically weaker sections

The students from SC/ ST / OBC and other weaker sections are provided assistance from the Government of West Bengal from different schemes specially made for minorities and backward communities. Apart from that, the college maintains Students Aid Fund and Teachers Fund for providing Book Grant and Travel Grant for economically backward students in relation to their academic curriculum.

Moreover, in regard to Academic Curriculum, Tutorial Classes and Remedial Classes are organised by the teachers of different departments for the minorities & SC / ST students to ease their difficulties in Honours & Pass subjects.

Now, as per the directives of the Government of West Bengal, apart from reservation policy of SC & ST, General Induction of OBC students are also made, categorizing them under OBC – A & OBC – B comprising 17% of total number of students

• Students with physical disabilities

For the students with physical disabilities, in the existing College Main Building, ramp is provided for easy movement. Moreover, in the new administrative building which is being constructed has provisions for installation of two lifts for easy movement of physically challenged students.

ii) Overseas students

Overseas students are rare in the college. So no such specialized and sustained support system building mechanism has been initiated in this college.

iii) Students to participate in various competitions /National and International

The students of the college participate in different types of academic and co-curricular activities which include, Essay & Creative writing competition, Debates, Quiz, Sports, Cultural programmes, Youth Parliament etc. Students of different post graduate departments participate in different international and national seminars, poster competition organized by different Universities, Institutes and Colleges. Participation of students in all these activities is directly mentored, monitored and inspired by the Chair of the institution, College administration, and different committees of the Teachers Council as well as teachers in individual capacity. Prizes are distributed to different successful students from the institution for academic and co-curricular success at both inter- and intra- institutional level in individual as well as collective capacity.



Photograph 5.1: College football team celebrate their success

iv) Medical assistance to students: health centre, health insurance etc.



Photograph 5.2: First aid provided during sports day

- The students of the Institution can avail of regular medical facilities from Student Health Home under Govt. of West Bengal at a very subsidized cost.
- Occasional Health, Eye etc check up programmes by registered doctors in individual capacity as well as Health institutions under the monitoring of NSS wing of the college have been arranged.
- Existence of Medical and Emergency Committee under the Teachers Council to deal with emergency health issues within the college.
- Regular arrangements of Health related Awareness Programmes are done, for improving health and hygiene of students, particularly by the NSS wing of the College.

v) **Organizing coaching classes for competitive exams**

The College has a NET – SET coaching programme fully-funded by UGC to impart training for success of SC / ST minority students in NET – SET examination.

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

The College has made collaborative arrangement with National Institute of Electronics & Information Technology (NIELIT) study Centre under Department of Information Technology, Govt. of India, approved by AICTE, located in the ground floor of the College building to impart compulsory Basic Training in computers to all the students in the College at a nominal, subsidized cost. This facilitation center is popular among the students as DATA-Q (Code : 88000030). Details of this study center are described as below:

Introduction: DATA-Q, established in the year 1995, felt the need of various fields to be educated in computer science for successful exposure of challenging career opportunities in the corporate world and education spheres to meet the challenge of the twenty first century. Based on excellent track record of the institute since 1995, DATA-Q was granted accreditation by NIELIT for "O" level & "A" Level course in the year 2003 and 2006 respectively. As a result of a good job done since 2003, DATA-Q was inducted as an implementation partner in the Barasat Government College for "IT Education & Training", pioneered by the Department of Higher Education, Govt. of West Bengal. Later, around 2007 the Directorate of Higher Education extended the permission for conducting IT education in Bidhannagar Govt. College, Salt Lake City for the benefit as well as quality IT education of aspirants from across the districts. Finally DATA-Q got the accreditation of B-Level this year which is equivalent to MCA and recognized nationally.

The academic activities of this centre are fully controlled by a team of qualified academicians. Prof. Dinesh Saha, former HOD, Department of Mathematics, Presidency College is the Chairman of the Academic committee. A qualified team of full time & part time faculties are always in the process of development of regular class notes and assignments based on the NIELIT's syllabus. DATA-Q is empowered by Shri Shikshayatan College, Lord Sinha Road, Kolkata for conducting compulsory "Basic Computer Course". As a Technical Collaborator since 2010, DATA-Q is also selected for imparting "Basic Computer Course" as compulsory IT Education in Barasat Govt. College and Bidhannagar College from the academic session 2013 onwards.

1. **Year of Establishment of Study Center in the College** : 2008
2. **Owner of the Franchise:** DATA-Q, No franchise system, NIELIT only accredited the Center.
(At present DATA-Q is accredited for three Major Level viz. *O, A & B-Level* nationally recognized and approved by AICTE, the B-Level course is equivalent to MCA and internationally recognized).
3. **Course offered** : Basic Computer Course (BCC), O-Level, A-Level, B-Level (MCA equivalent)
4. **Days and Time during which classes are held** : Monday to Saturday : 9:30 a.m. to 5:00 p.m
5. **Faculties taking classes** :
 - i) Sreetama Majumder , M.Tech (CSE)
 - ii) Shreya Basu , B.Sc. , A-Level
 - iii) Aditi Ray , B.Sc. (Physics) , A-Level
6. **Target Student** :
 - a) 10/12 students for O-Level per session
 - b) 2/3 students for A-Level per session.
 - c) 10/12 students for Certificate Course
7. **No. of Students (Enrolled)** :
 - a) 69 till date for Higher Level: A & B-Level
 - b) 800 students (2013 & 2014) for Basic Computer Course of Bidhannagar College

Table 5.4: Student enrollment statistics

YEAR	NO.OF STUDENTS	COURSES			FEE in ₹		
		O LEVEL	A LEVEL	CCC	O LEVEL	A LEVEL	CCC
2010-2011	45	33	7	5	6000	14000	2500
2011-2012	22	15	-	7	6000	14000	2500
2012-2013	21	20	-	1	8000	20000	3000
2013-2014	49	22	6	21	9000	20000	3000
2014-2015	60	30	7	18	9000	20000	3000

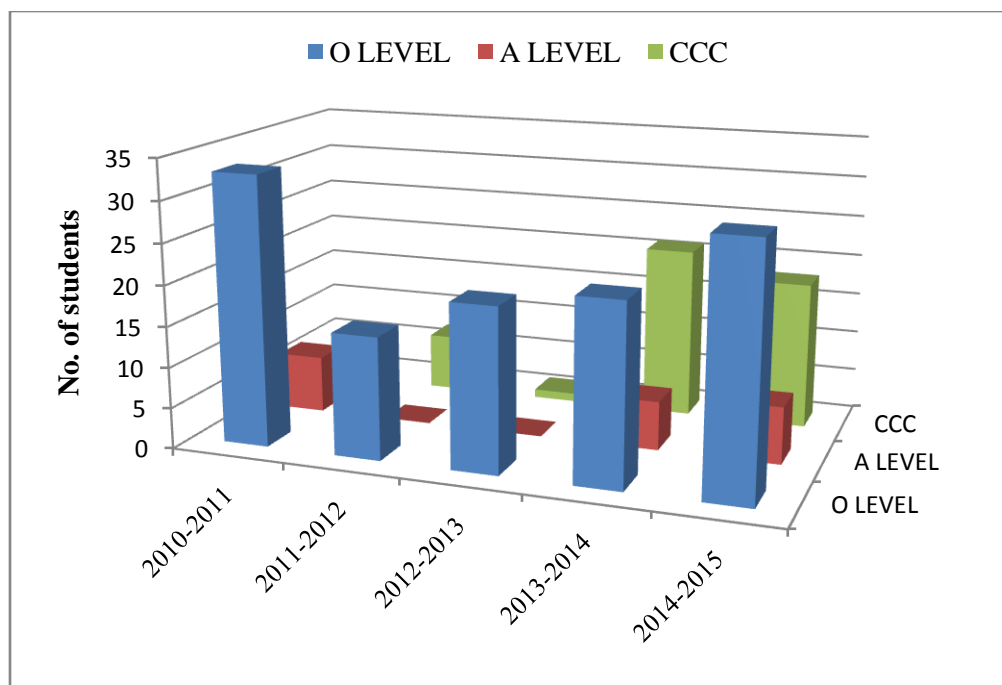


Figure 5.3 Profile of student enrollment

Table 5.5: Enrollment of Bidhannagar college students

YEAR	NO.OF STUDENT	COURSE	FEE in ₹	SUBSIDY in ₹
2013-2014	420(approx)	BCC	500	1500(each)
2014-2015	430(approx)	BCC	500	1500(each)
2015-2016	400(approx)	BCC	500	1500(each)

Table 5.6: Enrollment of Bidhannagar college Non-Teaching Staff

Year	No. of Enrollment	Course	Remarks
2011-2012	6	Course on Computer Concept	For running college administration
2012-2013	-	-	-
2013-2014	5	Basic Computer Course	Same as above
2014-2015	-	-	-

8. Number of Students of Bidhannagar College : Approximate 400 for Basic Computer Course

9. Successful Candidates during each year (in percentage) : 56% near to the National average.

10. Source of funding of this academic Program : By the Chairman of the Trust and Bank Loan.

11. Campusing facility if any : Through National Job Portal

12. How is the center contributing to the benefit of the students of Bidhannagar College and the Institution as a whole :

The center orients students in terms of educational and technical manners. It helps to guide students to take basic courses in computational aptitude at a subsidized rate that helps them in their future prospects.

- The Basic Computer Course is subsidized Rs.1500 each students i.e. yearly ₹6 Lac are giving subsidy by the NIELIT under IECT (Information Electronics & Communication Technology) scheme of the Government of India through this Center.
- 25 % waiver in monthly installment for other courses for this college students.
- 10% waiver in monthly installment for the courses to the students securing 80% & above marks in 10+2 examination.

Table 5.7: Subsidy provided to students

YEAR	NO.OF STUDENT	SUBSIDY(yearly)
2013-2014	420	6,30,000
2014-2015	430	6,45,000
2015-2016	400	6,00,000

13. Other positive interest of the college served from the study center :

- Fully subsidized computer training on Basic Computer Course (BCC) for the non teaching as well as teaching Staff are available.
- The IBM server installed and tuned by the Center and entire wired networking done by the Center authority funded by Bidhannagar College. The internet is available through this IBM server throughout the college campus via proxy server.

14. Academic Calendar:**Table 5.8:** Academic calendar for 2011-2012, 2012-2013, 2013-2014 and 2014-2015 as prescribed by NIELIT

Month commencing	Certificate Course	O & A-Level
December – January	Admission	Admission/Registration
February	Computer Fundamentals , Application	Paper - I & Paper – II
March	Network & Communications - I	Paper - I & Paper – II
April -June end	Network & Communications-II	Paper - I & Paper - II , Paper-III
	Preparation of ON-line Exam	Internal Assessment
	On-line Filling up Examination Form	On-line Filling up Examination Form
July	On-line Exam	National Level Exam (paper based)
August	Admission	Admission/Registration
		Commencing 2nd Semester Class for both the Level
September	Declare of Result	Declaration of Result
October-November	Commencing Class	Filling up on-line Exam form

Further a section of Non-teaching staffs in the college are also imparted computer training which in turn will help to run the digital administrative functions in the college and provide benefits to the students in different academic affairs.



Photograph 5.3: NIELIT Computer Center (Bidhannagar College)



Photograph 5.4: Computer Laboratory of NIELIT

vii) Support for “slow learners”

To provide academic support for “slow learners” different departmental teachers arrange for Tutorial classes. Further, teachers of different departments seat separately a number of times with these students at times and provide academic support for these slow learners.

viii) Exposures of students to other institution of higher learning/ corporate/business house etc.

The institution has a number of ways to provide the students exposure to other institutions of higher learning/ corporate business house etc. The Career Counseling Committee under the Teachers Council arranges for talks, seminars and guidance from consultancies, course programmes and others for the students to get opportunity to have exposure on academic as well as job career after completion of graduation course.

Further, the different departmental teachers provide exposure to the students in regard to opportunities to move to higher educational institutions in India and abroad. Students of Science departments get the opportunity to participate in a number of seminars and workshops organised in collaboration with or organized by renowned institutions in Kolkata. Further, science students regularly undertake academic excursions in different

scientific firms and institutes as part of their curriculum as well as opportunity of exposure in a bigger context.

x) **Publication of student magazines**

The College intermittently publishes the college magazine with write – ups and active contribution of the students. Further, different departments in the College bring out Wall Magazine at regular intervals.



Photograph 5.5: Intellectual wall magazine reflecting artistic views of students

5.1.5 Describe the efforts made by the institution to facilitate entrepreneurial skills, among the students and the impact of the efforts.

The institution organises different programmes pertaining to academic and co-curricular activities. These include arrangement of seminars, publication of college magazine, cultural programmes, sports during which the students have to participate actively in the management process of each of these events and help the chair of the institution as well as the teachers.

Further, the students actively get involved during the college admission process as well as election in students union which gives them exposure to real life situation. All the aforesaid involvement gives the students exposure of man management skills and constructive frame of mind. The students also actively participate in all the development plans making process of the college through representing the Governing Body of the College. All these process contributes directly or indirectly in facilitating entrepreneurial skills among the students.

5.1.6 Enumerate the policies and strategies of the institution which promote participation of students in extracurricular and co-curricular activities such as sports, games, Quiz competitions, debate and discussions, cultural activities etc.

- Students are actively encouraged and supported by their respective departments to participate in various academic, cultural and co-curricular activities for which they do not miss out on the lectures as well as class percentage.

- Concerned teachers ensure that no students participating in various activities of the College miss out on class lectures and extra classes are held to meet their losses.
- Moreover students are escorted and guided by college staff to the State-Level competitions held off campus.

• *National Service Scheme (NSS):*

Details regarding NSS year-wise programmes are furnished below:

Table 5.9: Different programmes organized by NSS wing

Academic calendar	Title of the Programme	Date	Organisation/Institute/Speaker Associated in the Scheme	No. of Participants/Audience/Respondents in each Programme	Nature of Social Outcome
2011-2012	Seminar on "Philosophy of Vivekananda" and Quiz contest	19/07/2011	The students including volunteers, teachers and Principal of the college took part in the programme.	48 students, 20 teachers and 5 non teaching staff.	In today's world the life of Swami Vivekananda and his messages are quite relevant. He was the living embodiment of unending spirit and youth of the country. The students lack proper orientation in life in the present times. The philosophy of Swamiji will encourage the students to follow the proper path leading towards meaningful existence. The students took part in the quiz contest with great enthusiasm and zeal. The prizes were given to the students securing 1st, 2nd and 3rd positions, by way of encouraging them.
	Seminar on " <u>Vermicomposting</u> "	05/08/2011	The students including volunteers, teachers and Principal of Bidhannagar College took part in the programme. Srimati Sruti Karmakar, Research Fellow of NTT, Durgapur, Department of Earth and Environmental studies delivered lectures to the students.	150 students, 1 speaker, 40 teachers and 5 non teaching staff.	Chemical fertilisers are widely used across the world to produce food grains, vegetables and crops. It creates huge amount of health hazards in human beings. From this seminar, the students came to know about an alternative to chemical fertilizers which could be used to produce crops and food grains. If this could be done in large scale, the world would be free of many diseases.
	Observation of "Energy Conservation Day" alongwith the 4 th Renewable Energy	05/08/2011	The N.S.S. unit of Bidhannagar College with its volunteers and Programme Officer Mr. Partha Karmakar joined to observe Energy Conservation day celebration at Indian Institute of Social Welfare	5 students and Programme Officer.	The students attended this programme to observe the Energy Conservation Day. We know very well that non-renewable energy sources will get rapidly depleted in a few decades. Only alternative is the renewable energy sources. The students are the future of the entire nation and the world as a

Acad emic calen dar	Title of the Program me	Date	Organisation/Institute/S peaker Associated in the Scheme	No. of Participants/Audienc e/Respondents in each Programme	Nature of Social Outcome
	and Energy Business Forum.		& Business Management, Management House, College Square West, Kolkata-73.		whole. By attending this programme the students are highly motivated who may opt their future life in investigating the renewable energy sources
	Thalasse mia Awareness Program me and Screening Tests for Thalasse mia.	14/12/2011	The programme was organised by the Department of Haematology, NRS Medical College & Hospital, Kolkata in collaboration with NSS Unit of Bidhannagar College. The speakers were Dr. M.K.Ghosh, HOD of Haematology department , Dr. Kallol Kr. Bhattacharyya, Dr. Tuhin Gain and other seven members of the department of Haematology of NRS Medical College & Hospital delivered lectures on Thalassemia Awareness programme to the students, teachers and non teaching staff of the college.	Three Medical Practitioners from NRS Medical College & Hospital, Kolkata and other seven members joined in the programme. 200 students, 50 teachers and non teaching staff took part in the programme.	The Doctors basically tried to generate an overall general awareness for Thalassemia among the participants. The Screening Tests for Thalassemia of 65 students were done. After the screening tests, the students were informed whether they were the carriers of the disease or not. The students were immensely benefitted by this programme
	Blood Group Detection Camp	07/03/2012	Blood Group detection Camp was organized by Rotary Club, Kolkata	The Rotary Club members, 300 students, 40 staff members including teaching and non teaching took part in the programme.	The Rotary Club of Kolkata Mahanagar organized this Blood Group specification camp. The Blood Group of the students, teachers and non-teaching staff were instantly specified and certificates mentioning their blood-group were issued to the students
	Charitabl e Homoeop athic Treatmen t		Dr. Chirasukh Chandra, Ex Principal, Bengal Homoeopathic Medical College, Asansol, Burdwan treated the students, teachers, non teaching staff and other people from the surrounding locality.	The Homoeopathic treatment covered 400 patients including teachers, non teaching staff members, students and people of neighboring places.	Dr. Chirasukh Chandra, Ex Principal, Bengal Homoeopathic Medical College, Asansol, Burdwan treated the students, teachers, non teaching staff and other people from the surrounding locality on each Friday. Not only that, Dr. Chandra Provided the medicines with free of costs. The poor people of the locality were benefitted to large extent by this charitable Homoeopathic treatment

Acad emic calen dar	Title of the Program me	Date	Organisation/Institute/S peaker Associated in the Scheme	No. of Participants/Audienc e/Respondents in each Programme	Nature of Social Outcome
	Regular Beautific ation and cleaning Program me of the College and College Campus of Bidhanna gar College	15/08/2011 10/12/2011 and 04/03/2012	The NSS unit of Bidhannagar College including students, Teachers and volunteers took part in the beautification and cleaning of the college and campus.	70 students, Programme officer, 5 teachers, 5 non teaching staff.	The NSS unit of Bidhannagar College including students , Teachers and volunteers took part in the beautification and cleaning of the college and campus and as a result the college and the campus was well maintained
2012-2013	Inclusive Mathema tics Educatio n	10/02/2013	Association for improvement of mathematics Teaching, West Bengal	33 teachers and students	Through this programme, the speakers basically tried to improve the teaching-skill of school-teachers, so that, they could impart lessons in Mathematics, in an impressive manner, inspiring all categories of students, who will be learning the subject with much interest and dedication.
	Free Eye check up program me	12/03/2013 & 13/03/2013	Vassan Eye care Hospital, Kolkata	86 teachers, students and staff	The Students, Teachers and non-teaching Staff took part in this programme with remarkable interest. Eye experts of Vasan Eye Care Hospital examined the eyes of all participants with the help of modern instruments, with great care. They provided prescriptions to the all participants and they also provided the opportunity of eye check-up in any branch of Vasan Eye Care Hospital within six months, free of cost
2013-2014	Preventio n of HPV Infection and Cervical Cancer	19/02/2014	Dr. Ratnabali Chakraborty, eminent Gynaecologist, Indian Menopause society, Kolkata Chapter	23 Teachers and 110 students	Dr. Ratnabali Chakraborty , eminent Gyynaecologist, Kolkata spoke on “HPV Infection and Cervical Cancer” of persons at the early age. She also emphasized on preventive measures the students and teachers can take to avoid the infection as well as the disease. Dr. Chakraborty also gave information to the audience for different types of check-up for early detection of the infection as well as the disease and also about the treatment of patients, contracting infections and disease. The programme created huge

Acad emic calen dar	Title of the Program me	Date	Organisation/Institute/S peaker Associated in the Scheme	No. of Participants/Audienc e/Respondents in each Programme	Nature of Social Outcome
					interest among the participants who interacted with the speaker for long, enthusiastically. The programme generated an overall awareness among the participants.
2014-2015	Awarenes s Program me on AIDS	01/12/2014	West Bengal State Aids Prevention and Control Society, Swasthya Bhavan, GN -29, sector-V, Salt Lake, Kolkata-91. Speakers-Mrs. Sumita Samanta, Assistant Director, West Bengal State Aids Prevention and Control Society, Mr. Jagadish Chandra Jana, an AIDS Patient who recovered from the disease	20 Teachers and 120 students and 15 non-teaching staff.	Mrs. Samanta delivered a lecture on AIDS & discussed elaborately about the disease AIDS and how the same can be prevented. She put a stress on growing public awareness of the disease and a significant role of the students in forming such awareness among the mass. Mr. Jana, delivered a lecture on AIDS and narrated stories like, how he came to know about his disease and what hard challenges he had to face at that time and ultimately how he conquered the disease with the help of his family members and other friends. The audience listened to him with rapt attention and everyone was inspired by his touching narration. Then a group of four persons from West Bengal State Aids Prevention and Control Society presented an act which depicted how the disease could be detected, combated and the society could be rendered free from AIDS.
	Seminar on Thalassemia and Screening Test	25/03/2015	Department of Haematology, N.R.S. Medical College and Hospital, Kolkata, Speaker-Dr. Tuhin Subhra Gayen, Medical Officer, N.R.S. Medical College and Hospital, Associates in the screening test are Miss Mou Mukherjee, Mrs. Arpita De, Counsellor, Mr. Angsuman Chatterjee, Mr. Palash Samanta, Medical Technologist, Mr. Siddhartha Guha Thakurtha, Medical assistant.	20 Teachers and 125 students and 10 non-teaching staff	Dr. Tuhin Subhra Gayen delivered a lecture on Thalassemia elegantly. Audience interacted with DR. GAYEN regarding Thalassemia and the students enjoyed thoroughly the seminar and they learned a lot about the subject. After the seminar, Thalassemia screening test were conducted and about 91 students went through this screening test of thalassemia. There was an overwhelming response from the students and they spontaneously took the thalassemia screening-test. The Medical Officer of N.R.S. Medical College and Hospital will separately call the students of Thalassemia carrier at N.R.S.

Academic calendar	Title of the Programme	Date	Organisation/Institute/Speaker Associated in the Scheme	No. of Participants/Audience/Respondents in each Programme	Nature of Social Outcome
					Medical College along with their parents for counseling in due course. The programme was a grand success.
	Community and Lifestyle diseases awareness	30/03/2015	The Central Calcutta Society for advancement of Human development and Research, Speakers- Dr. M.S.Banerjee, Gynaecologist, Professor(retired) Director, OBS, IPGMER and Medical College., Kolkata, and Dr. Shabanna Roze Choudhury.	20 Teachers , 115 students and 10 non teaching staff	Noted Gynaecologist, Dr. M. S. Banerjee, delivered lecture on women's health and food habits to prevent obesity, diabetes and P.C.O.D. and other women-health related hazards. Dr. Shabanna R Chowdhury lectured on communicable diseases and their remedies. She mentioned the ways and practices people should follow to stay safe from contracting these diseases. After the seminar on Health Awareness, a General Health Check Up Programme was conducted by the experts. Measuring weight, height and blood pressure of each student, teacher and non teaching staff followed. Dr. Banerjee, and Dr. Chowdhury checked the Heart and Lung of each of the participants and gave them medical advice for a healthy lifestyle. The programme was a stupendous success.
	Bidhannagar College Cleaning	31/03/2015	Students including volunteers of NSS Unit, Teachers and non teaching staff of Bidhannagar College.	20 Teachers , 200 students and 20 non teaching staff	Each group was provided with brooms, dusters, dust-collecting containers, Phenyl, soap and other cleaning tools for making the respective departments, spick and span. Almost 200 students including volunteers, 20 teachers and 20 non teaching staff took part in this cleaning process with great interest and enthusiasm. All the departmental rooms, laboratories and entire corridors of the college were cleaned by the students. The teaching and non-teaching staff extended their active help and heartfelt support to the entire cleaning process, from the beginning till end. The programme was a great success.



Photograph 5.6: Seminar on Thalassemia and Screening Test



Photograph 5.7: Dr. M. S. Banerjee delivered lecture on Community and Lifestyle diseases awareness



Photograph 5.8: Students attending Seminar on Vermi composting



Photograph 5.9: Seminar on inclusive Mathematics Education



Photograph 5.10: Students performed college cleaning



Photograph 5.11: Students continued in college cleaning



Photograph 5.12: Free health checkup



Photograph 5.13: Thalassemia screening-test

• **Cultural Activities:**

The College makes an effort to organize round the year activities such as intra-College competitions in various categories like singing, recitation, dancing, painting, Urdu-*shayari* and various such other activities. The College has a Cultural Committee and Drama Committee to organize co-curricular activities. These Committees organize Cultural Programmes in a large scale like Annual Function and College Reunion with hosting of dramas in English/Sanskrit/Hindi/Urdu/ and Bengali which also involves student-participation from a number of departments. Besides, the college also organizes several cultural programmes to celebrate International Women's day, International Vernacular day in the form of 'Bhasha Diwas', National Science day, National Education Day, *Baishe Shraavan*, *Vanamahotsav* and few more of the ilk . The College has a Committee for Cultural Activities, Debate and Extempore Speech which annually organizes intra-college debate competitions. The teachers proffer necessary support to the students for participating in such competitions.

2009-2010:

The Silver Jubilee Celebration of Bidhannagar College was held throughout the year. The inauguration programme was held in the college premises, particularly in the playground. The programme was inaugurated by Dr. Amlan Dutta. The Silver Jubilee lecture on Environment was delivered by Prof Sarkar, former Director of BITM. Dr. Ashoke Thakur, Vice Chancellor of West Bengal State University and the Secretary, Department of Higher Education, attended the programme. The inauguration ceremony was followed by a two-day cultural programme in which students, teachers and non-teaching staff participated. It included Dance Drama, Short Play, and musical soiree by students and teachers. Smt. Swagatalakshmi Dasgupta and Chandrabindu, a Bangla Band of much repute, were invited too.

2010-2011:

The Silver Jubilee Celebration was carried on, during this span. There was a Photographic Exhibition-cum-Competition in the college premises. There was a two-day cultural programme at Eastern Zonal Cultural Centre, Salt Lake. On day one, teachers and the non-teaching staff presented 'Sesh Rakshya' of Rabindranath Tagore. The following evening, Madhubani

Chatterjee performed a dance recital based on Tagore's song. Saustab, an eminent drama group of Kolkata staged a play, titled 'Bhootnath'.

In May 2010, Rabindra Jayanti celebrations were observed in the college premises in which students and teachers participated actively.

2011-2012:

'Barsha Mangal' was held in May 2011, organized by the teachers, non-teaching staffs and students at the college staff room to commemorate Tagore's birthday.

On 21st February 2012, Bhasha Dibash was celebrated.

2012-2013:

Rabindra Jayanti by the students, teachers and non-teaching staff were held in the college hall. Baul artists from outside were also participated in that programme. Teachers' Day was celebrated on the 5th September, 2012.

2013-2014:

Rabindra Jayanti was celebrated on the 11th May, 2014 in which students, non-teaching staff participated.

List of cultural programme organized by Bidhannagar college students' union

- Alaap [Freshers Welcome]
- Dhun [Annual Festival]
- 26th January [Republic day Celebration]
- 15th august [Independence day Celebration]

2012-2013	<ul style="list-style-type: none"> • Dancing • Mr. & Miss Alaap competition • Singing • Band performance by Ishaan & Protisruti
2013-2014	<ul style="list-style-type: none"> • Dancing • Mr. & Miss Alaap competition • Singing • DJ performance
2014-2015	<ul style="list-style-type: none"> • Dancing • Mr. & Miss Alaap competition • Singing • DJ performance

ALAAP, Fresher's welcome



Photograph 5.14: Few celebrating moments during ALAAP

DHUN



2012-2013

Inauguration
 Sing it Loud
 Raga
 Angrezzi beat Born to dazzle (ramp walk)@6pm
 Band performance –Bongo
 Futo-scope
 1234 get on the dance floor
 Iq meter (qQiz)
 Rock of the ages
 Rupankar & his team
 Paint ur mind
 Show me what u got
 Bandage & Lakhichara

2013-2014

Inauguration
 Sing it loud
 Angrezzi beat
 1234 get on the dance floor
 Bron to dazzle
 Futo-scope
 Guest performance- Pota ar morudyan
 Iq meter(Quiz)
 Show me what u got
 Rock of the ages
 Paint ur
 Guest performance-Shilajit

2014-2015

Inauguration
 Sing it Loud (antakshari)
 Raga (eastern solo)
 Angrezzi beat
 1234 get on the dance floor (choreography)
 Bron to dazzle
 Futo-scope (photography)
 guest performance- by Tanmoy shadak
 Iq meter(Quiz)
 Show me what u got
 Rock of the ages
 Paint ur mind
 Band performance by Alienze & Anupam

5.1.7 Highlighting the support and guidance provided to the students in preparing for the competitive exams, give details of 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 following Table shows the no. of applicants appeared for UGC-CSIR- NET Exam in Life Science under the guidance of NET-SET Coaching Center of Bidhannagar College, Salt Lake, Kolkata.

Table 5.10: Subsidy provided to students

Session	No. of Applicants	No. of Minority	No. of S.C.	No. of S.T.
2013-14	89	02	03	00
2014-15	31	01	03	00

Each year a considerable number of students appear in the All-India Entrance Examinations like JAM/GATE etc. Records of such candidates, who got selected, are being indicated in the below. The data is compiled as per verbal and informal feedback received from students and their peers. The actual figures may be even higher.

Table 5.11: Achievements of students in different examination

Year	NET	SET/SLET	GATE	State PSC	GRE	Others	INSPIRE
2011-12	2	-	2	-	-	7	1
2012-13	3	-	3	-	-	1	-
2013-14	4	-	2	-	-	3	-
2014-15	1	3	-	1	1	2	-

5.1.8 What type of counseling services are made available to the students (academic, personal, career, psycho-social etc.)

The institute has set up a Psychological Counseling Cell to interact with the students and tries to offer supportive services to deal with a wide range of concerns regarding academic, personal, emotional, family or peer related. It has a well experienced and qualified student counselor to provide necessary guidance. A Career Counseling Cell which regularly functions and brings in industry-placement experts for students' career-counseling.

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 track job opportunities and prepare themselves for interview and the percentage of students selected in campus interviews by different employers (list the employers and the programmes).

The College has a Career Counseling Cell which regularly functions and brings in industry placement experts for students' career counseling. The Career Counseling Committee and Placement cell of Bidhannagar College was very active during the last few years especially since

2010. It has organized several seminars, interactive sessions, Industry-faculty meet, recruitment drives and awareness programmes of its kind.

The following are the industrial interactive sessions and recruitment programme organized by the Career Counseling Cell of Bidhannagar College.

- On 15th January, 2013 the Textile Committee, Government of India (Ministry of Textile) conducted an 'Awareness Programme on Handloom Mark Scheme'.
- The ICFAI University conducted a seminar on 'Future Career Prospects of students after graduation' on 19th February, 2013.
- On 6th March, 2013, Vista-Mind conducted a seminar on 'Nature of Jobs after graduation'.
- The National Skill Development Corporation (NSDC) of the Ministry of Finance, in collaboration with Orion Edutech Private Limited conducted a career counseling on 16.09.2013
- The Talent Acquisition Manager of Met Technologies conducted a Campus Recruitment Programme on 26.09.2013
- On 23.11.2013, a seminar was conducted by WLC for the final year students
- On 06.12.2013, a seminar was held on 'Alternative Career Options'. The speakers on the occasion were :
 - S.V.Raman, former Programme Director, Goethe Institute, Max Muller Bhavan, Kolkata.
 - Abhijit Dasgupta, former Station Director, Doordarshan.
 - Sandip Mitra, Kolkata Campus, WLC College.
 - Debarati Majumdar, Head of Admission, United World School of Business.
- A workshop on Career Opportunities in Official Statistics with special reference to NSSO was held on 09.04.2014.

5.1.10 Does the institution have a student grievance redressal cell? If yes, list (if any) the grievances reported and redressed during the last four years.

A RTI Committee has been formed to address queries regarding college. There is a Grievance Redressal Cell in the college where students can record their grievances. Complaint box has been placed in the opposite of the Principal's office.

No formal grievance has been reported during the last four years. This is because students can directly meet the Departmental Head as well as the Principal to resolve their problems.

5.1.11 What are the institutional provisions for resolving issues pertaining to sexual harassment?

The Teachers' Council forms an Internal Complain Cell (ICC) for determining complaint filed under the **Sexual Harassment of Women at work place (Prevention, Prohibition and Redressal) Act 2013**. The college also has created a Gender sensitization committee against sexual harassment. These committees deal with the issues related to sexual harassment as per the *Vishakha Guidelines*. Student can lodge complaint either personally to any of the committee member or can email to specifically designated address. The committee has not received a single case during the last five years since the authority takes **commendable** measures to maintain proper discipline in 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, an Anti-Ragging Committee is formed by the Teachers' Council, comprising senior teachers. 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 committee has not received any unpleasant report, so far.

5.1.13 Enumerate the welfare schemes made available to students by the institution.

The College has various students' welfare schemes which provide a healthy environment for students. The schemes are:

- Scholarship, Stipends as enumerated with details is given earlier (under section number 5.1.2 and 5.1.3).
- All the students of the college are entitled to have free medical checkup, treatment and hospitalization (if necessary). The College has a First Aid and Medical Emergency Committee facilitated by the Teachers' Council. This committee plays an important role for providing first aid facility within the campus and also takes good care of minor healthcare issues.

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.

Ex-students of Bidhannagar College had a keen interest to form an Alumni association. They organized a cultural programme along with the present students. A Governing Body of the Alumni association was formed on that day. The Principal of the college also participated in the programme. The application has been submitted for registration of Bidhannagar College Alumni association on 30th March, 2016. They are intending to attend and inspire for betterment of students in academic and cultural aspects.



Photograph 5.15: A get together of Alumni Association

5.2 Student Progression

5.2.1 Providing the percentage of students progressing to higher education or employment (for the last four batches) highlight the trends observed.

Table 5.12: Student progression rate

Student progression	2010-11	2011-12	2012-13	2013-14	2014-15
UG to PG	66	66	75	73	70
PG to M.Phil.	Data unavailable	Data unavailable	Data unavailable	Data unavailable	Data unavailable
PG to Ph.D.	35	27	23	32	15
Employed					
Campus selection	Data unavailable	Data unavailable	Data unavailable	Data unavailable	Data unavailable
Other than campus recruitment	Data unavailable	Data unavailable	Data unavailable	Data unavailable	Data unavailable

Bidhannagar College is mainly UG College having three PG departments. Students passed out from here and stay in touch with individual departments only. So, most of the knowledge regarding their further progression is merely verbal. Statistics shows above is collected from individual students who are part of alumni association. Actual number is far better than what appeared here.

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.

Bidhannagar College has UG and PG programmes for students. Following table shows programme wise pass percentage and completion rate for different sessions. Low completion rate is mainly reflects mindset of UG 1st year students. Few students due to their preparation JEE without cancelling their admission and many of them take readmission leaving drop out toll high. Representation of pass percentage shows its incremental nature and improvement of students.

Table 5.13: Programme wise pass percentage and completion rate

Year	Title of the Programme	Total no. of students appeared	Division				Completion rate*
			I %	II %	QG	Pass %	
2010-11	UG	190	16.30	67.90	3.20	87.40	61
	PG	39	94.88	5.12	-	100	100
2011-12	UG	222	15.30	78.80	5.86	99.96	70
	PG	38	94.74	5.26	-	100	100
2012-13	UG	177	18.10	68.90	4.50	91.50	76
	PG	40	90	10	-	100	100
2013-14	UG	147	18.40	77.60	3.40	99.40	71
	PG	38	84.21	15.79	-	100	100
2014-15	UG	180	24.40	68.90	6.70	100	63
	PG	63	87.30	12.70	-	100	100
2015-16	UG	211	23.2	53.56	23.2	100	88.6

*Completion rate is calculated by taking account of students who passed within 3 years of UG programme. As parent University provides 5 year of registration for a student. Many of students who complete their course within 5 years are not included here. So actual number of completion rate is higher than what appears in table.

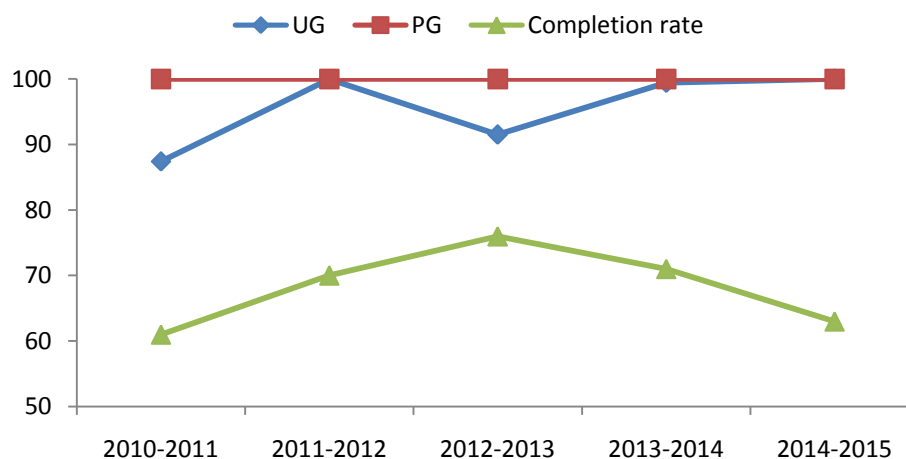
**Figure 5:4** Profile of programme wise student progression

Table 5.14: Programme wise comparison with other college

Year	Title of the Programme	Pass percentage	
		Bidhannagar College	Barasat College
2010-11	UG	87.40	100
	PG	100	100
2011-12	UG	99.96	100
	PG	100	100
2012-13	UG	91.50	100
	PG	100	100
2013-14	UG	99.40	100
	PG	100	100
2014-15	UG	100	100
	PG	100	100

5.2.3 How does the institution facilitate student progression to higher level of education and/or towards employment?

The College facilitates student progression to higher studies and/or towards employment by imparting various academic and professional training to them to acquire necessary skills, grooming and motivating the students for responsible positions etc. In order to improve their academic and professional efficiency the following measures are taken into consideration:

- Regular unit tests.
- Continuous evaluation of the performance of the students through student seminars, group discussions, surprise tests etc.
- Help them gain experience with computers and equipment.
- Regular conduction of field studies, educational tours etc.
- Continuous evaluation of practical exercises in laboratory based subjects.
- Tutorial classes
- Special classes to help the students for appearing in different competitive exams
- 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.

- Financial stringency, whereby students are unable to meet the expenses for higher education.
- Playing the role of a bread-earner, where students work to support their family.
- On few occasions, marriage and certain typical socio-economic phenomenon prevent some girl students from continuing their studies.
- Occasionally, failure in university examinations prompts some less-privileged students to discontinue studies.

The institution tries to address all 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 has already been posted in 5.1.2 and 5.1.3 columns of this Criterion.
- ✓ The Institution also provides valuable support to those who are unable to cope with the pressure of the curriculum through arrangement of remedial and tutorial classes, counselling, 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 **regularly** to address their academic needs.

5.3 Student Participation and Activities

5.3.1 List the range of sports, games, cultural and other extracurricular activities available to students. Provide details of participation and program calendar.

The College provides infrastructure for the following facilities:

Games: Indoor

- (i) Carom,
- (ii) Table Tennis.

Games: Outdoor

- (i) Football
- (ii) Badminton
- (iii) Cricket
- (iv) Athletics

Other facilities: Gymnasium

The College also provides exposure for the following cultural activities:

- i) Music
- ii) Dance Drama
- iii) Debate
- iv) Quiz Contest

Table 5.15: Sporting activities of students in different categories

Year	Events	No. of students participated in				
		Football	Cricket	Table Tennis	Badminton	Athletics
2010-11	College Internal Sports, organized by College Authority	All Students and Staff of this college				
	Inter Govt. College Sports Championship, under the auspices of Education Directorate, Govt. of West Bengal	16	-	Men:2 Women:1	Men: 3	Men: 6 Women: 6
	Inter College Championship, organized by West Bengal State University, Barasat	21	17	3	-	-
2011-12	College Internal Sports, organized by College Authority	All Students and Staff of this college				
	Inter Govt. College Sports Championship, under the auspices of Education Directorate, Govt. of West Bengal	16	-	-	-	Men: 4 Women: 1
	Inter College Championship, organized by West Bengal State University, Barasat	16	14	-	-	-
2012-13	College Internal Sports, organized by College Authority	All Students and Staff of this college				
	Inter Govt. College Sports Championship, under the auspices of Education Directorate, Govt. of West Bengal	16	-	-	-	Men: 3 Women: 3
	Inter College Championship, organized by West Bengal State University, Barasat	-	-	Men: 4	Men: 4	Men: 2
2013-14	College Internal Sports, organized by College Authority	All Students and Staff of this college				
	Inter Govt. College Sports Championship, under the auspices of Education Directorate, Govt. of West Bengal	-	-	-	-	-
	Inter College Championship, organized by West Bengal State University, Barasat	-	-	-	-	-
2014-15	College Internal Sports, organized by College Authority	All Students and Staff of this college				
	Inter Govt. College Sports Championship, under the auspices of Education Directorate, Govt. of West Bengal	-	-	-	-	-
	Inter College Championship, organized by West Bengal State University, Barasat	16	-	Men: 7 Women:2	Women:3	-



Photograph 5.16: Student activities during sports days

Apart from the Annual sports, which is a regular event held every year with active participation of students; they are provided with different sports equipments to play outdoor and indoor games throughout the year. A Gym is there in the college to cater to fitness requirements of the requirements of the students.

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.

College provides all necessary logistics to help students to bring their best in field. Continuous moral support and monitoring from teachers inspire students to take part in different sports and cultural activities outside the college. Many of them succeeded in their respective fields.

Name	Activity/Awards
Bimal Rout	'Match of the Series' Title in a Cricket Tournament organised by Shyamchak village in Midnapore.
Students of Education	The Department won Cricket Tournament Intra College Premiere Cricket League 2014.
B. Etimuni Chakma	Winner in Intra College Table Tennis



Photograph 5.17: Celebration over their win

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 kept at the custodian of the Principal. 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.

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:



Photograph 5.18: Students are describing *anthropos* in Department of Anthropology

5.3.5 Does the college have 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 “Bidhannagar College Students’ Union” or (in Bengali) “Bidhannagar College Chhatra Sansad”. Every bona-fide Under-graduate and Post-graduate students of a particular academic session are members of this Students Union. However, only the regular students of a particular academic session can enjoy the privileges of casting their votes, contesting in the election to the Union, as well as holding offices in the Union in that particular academic session only. The Union Council is a body of class representatives, with the ratio of representation being 1:30 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:

Composition of the Bidhannagar College Student’s Union Cabinet for 2015-16 session

President (Ex-Officio)	Dr. Subhas Chandra Jana
General Secretary	Saikat Dhar
Assistant General Secretary	Sunanda Ghosh
Cultural Secretary	Debottam Saha
Assistant Cultural Secretary	Sritama Mukherjee
Games Secretary	Sankhasubhra Ghosh
Assistant Games Secretary	Soumajit Adhikary
Boys Common Room Secretary	Sayan Kar Majumder
Assistant Boys Common Room Secretary	Deep Roy Chowdhury
Magazine Secretary	Minakshi Sen
Assistant Magazine Secretary	Suman Debnath
Girls Common Room Secretary	Ushashi Ghosh
Assistant Girls Common Room Secretary	Pallavi Roy

Election process generally takes place through the months of January and February of each year. The election schedule is prepared in consultation with the district administration. An Election Committee consisting of the faculty members is constituted to supervise the election process. The Principal of the College is also the ex-officio President of the Students’ Union.

The Constitution of the union reflects the democratic spirit and disciplined conduct expected of a proud member associated with the College. The objectives of constitution is to encourage healthy academic life in the college and stimulate the spirit of co-operative activities and social service among the students, and to promote discipline, sense of responsibility, social harmony, integrity and fraternity among the students. The primary responsibility of the Union is to ensure that the focus of the student community remains on the path of excellence in higher education.

The Students’ Union organizes different academic activities like Quiz contest, debates, symposia, academic fairs, lecture series by eminent persons and cultural programmes of moral standing like ‘Alaap’, ‘Dhun’, Saraswati Puja, Republic Day on 26th January, Independence Day on 15th August etc. The Union also plays an important role in publishing College magazine and

Wall magazine and actively participates in different games and sports activities (in both indoor and outdoor format) and Annual Sports.

All student members make an annual payment of ₹ 200 as Union fees. These fees are used by the Students' Union in organizing their various activities during their tenure.

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 deals with the developmental programme. The General Secretary of the Students' Union is a member.

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 motivate the students in conducting the cultural programme.

College Games and Sports Committee: This committee also requires Students' Union active participation 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.

NSS Committee: The student members, who are also NSS Volunteers, play an active role in motivating others in the different activities of the NSS Unit of Bidhannagar College.

5.3.7 How does the institution network and collaborate with the Alumni and former faculty of the Institution. Any other relevant information regarding Student Support and Progression which the college would like to include.

The mission of the Alumni Association is to reach, engage and serve all alumni, present students by networking with one another to foster a life-long intellectual and emotional connection between the college and its graduates. The association serves the need of alumni for leadership, voluntary commitment, goodwill, financial support, enhancing industry academic collaboration and communications including public relations.

Some Successful Alumni of Bidhannagar College

Name	Position
Seuli Das (Karmakar)	Associate Professor of Philosophy, Bidhannagar College
Dr. Mousumi Dutta	Associate Professor of Economics, Presidency University
Dr. Indranath Bhattacharya	Assistant Professor in Mathematics, Barasat Govt. College
Chandril Bhattacharya	Columnist, Singer, Lyricists
Dr. Arindam Bhattacharya	Assistant Editor, West Bengal District Gazetteer, Higher Education Department, Govt. of West Bengal

Name	Position
Suman De	Editor in Chief, ABP Ananda
Subhamita Choudhuri,	Reputed Singer
Meghna Pal	West Bengal Civil Service (Group- A)
Avishek Ganguli	Journalist – Times of India,
Samrat Hore	Assistant Professor of Statistics, Tripura University
Dr. Hiranya Lahiri	Assistant Professor at Bardhaman M.U.C Women's College. M.Sc. from Jawaharlal Nehru University. Rank – First. PhD. from Jadavpur University
Soumana Banerjee,	West Bengal Civil Service (Group- A)
Avik Mukherjee	Researcher, National Institute of Immunology, New Delhi
Avijit Poddar	Scientist, Department of Biotechnology, Govt. of India
Yashodeep Sengupta,	Journalist – The Telegraph
Deep Chatterjee	Research in Goethe University, Frankfurt main, Germany
Subhadeep Mukherjee	Researcher, National Institute of Cholera and Enteric Diseases
Sumallya Karmakar	Researcher, National Institute of Cholera and Enteric Diseases
Tuhin Sarkar	Researcher, Biochemistry Department University of Calcutta
Ranajoy Guha Neogi	Doing PhD in Economics from Indian Statistical Institute (Kolkata); MSQE from Indian Statistical Institute (Kolkata) Rank –First.
Supratik Guha	Assistant Professor, Sahid Matangini Hajra College; M.Sc. from Jawaharlal Nehru University. M.Phil from Calcutta University.
Arunima Banerjee	Business Analyst at GENPACT LLC; M.Sc. in Economics from Delhi School of Economics.
Malay Mandal	GATE, Research Scholar, Bidhannagar College
Molly Ghosh	Associate Professor in Vivekananda College
Biprajit Sarkar	West Bengal Police Service
Mohona Majumder	Hygiene Officer, Taj Bengal Hotel, Kolkata
Priyanka Ghosh	Doctoral Research Scholar in Tata Institute of Social Science
Snehashis Mitra	Research Scholar at Calcutta Research Group under Dr. Ranabir Samaddar; M.A. from Tata Institute of Social Science. Guwahati
Nirmalya Nath	Genpact (Recruited through Campus selection in Calcutta University). Doing M.Sc. from Calcutta University.
Mouli Ghosh Dastidar	Post Doc. in University of Heidelberg, Germany.
Tushar Saha	Ph. D. in University of California, USA.
Suvodip Das	Ph. D. in Expt. Physics IISC, Bengaluru.
Dr. Susoma Sen	Associate Professor, Bangabasi College.
Sankha Bhattacharya	Head Master, Rigachi High School

Name	Position
Debashish Ghosh	Managing Director & CEO, Shakeso Appliances
Avyudoy Guha	Superintendent of Custom, Govt. of India
Kinshuk Saha	Vice Presiden, Axix Bank, Claster Head, Vilaspur
Anjan Lahiri	Director, Propheeyfzlle, Dubai
Parthapratim Das	Deputy Vice President, Axis Bank
Arnab Mitra	Director, Management Consulting, KPMG Ltd.
Yasmin Bari	BDO, Bharatpur-I Dev. Block
Arindam Sanyal	Manager, Distribution, Automation CESE Ltd.
Reshmi Bhattacharya	Head Mistress, Ichhapur Girls' School
Soumyajit Das	Managing Director, West Bengal State Fisheries Dev. Corporation.
Syoomobroto Bondhopadhyay	Sr. Director, ONTAP Development Plant, Netappin Corporation, USA
Chirantan Das Gupta	HOD, Amdanga JK Mahavidyalay
Sinchan Mukherjee	S.R.O., To AULCO ULC Office, Barrackpur
Sanchayan Pan	BDO, Dhaniyakhali Dev. Block
Sandip Kar	Chief Manager, Central Bank of India, Debit card Department
Nilanjan Majumder	Sr. Director, in VIVO, Siongapur
Jibadip Bhaduri	Sr. Lead, HR, System Shyam Tele Services Ltd.
Ranajoy Chakraborty	Deputy Director, Transport Department, Govt. of W.B.
Bismoy Roy	Register of Publications, Govt. of W.B.

CRITERION-VI

GOVERNANCE, LEADERSHIP & 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***

Bidhannagar College was established in 1984 to offer Honours courses only. The vision was obvious: to cater to the need of the more intelligent students coming from all social strata – a vision that had a number of corollaries like empowerment with knowledge, value-education, socialization, instilling the spirit of leadership, both intellectual and social. This vision has led further to the introduction of PG Courses – a process that is still on.

- ***MISSION OF THE INSTITUTION***

Broadly speaking, the mission is to work towards the fulfillment of the vision with which the college was set up. To be more specific, the college seeks

- ✓ To be in the tradition of its past performance that ensures both quality and growth, be they in natural sciences or humanities. This includes skill-development as well.
- ✓ To be free of gender-bias, given that quality and growth are gender-free.
- ✓ To be free of any bias towards social strata, so that amity and coexistence of students coming from different ethnic and religious groups are assured. This is in keeping with the integrating principles of India as a nation.

In fine, this is all about nurturing the young, making them intellectually capacious, morally sound, socially responsible, and generally sensitive.

6.1.2 What is the role of top management, Principal and Faculty in design and implementation of its quality policy and plans?

The “top management” for Bidhannagar College includes the Higher Education Directorate and the Department, Government of West Bengal. A Government establishment, the College is directly under their control. They allocate funds under the Plan and Non-plan heads. Appointments, confirmation, career advancement, and transfer of Principal, teaching and Non-teaching staff – all such things are their responsibilities.



Photograph 6.1: Principal-Faculty meeting

Within the college, the Principal assumes leadership in ensuring a positive working environment and implements the government policies. An efficient fiscal and human resource management is his responsibility. There is a Governing body (GB) to aid him in addition to the Teachers' Council and the Heads of the Departments. As regards the plans and strategies for quality assurance and development, the IQAC offers analysis and suggestions, as do the different stakeholders and the Teachers', in keeping with which resolutions are taken by the GB and they are forwarded to the Higher Education Department for consideration and necessary action.



Photograph 6.2: Office at work

The members of the non-teaching staff play a vital role in the process of quality assurance and development by their honest and conscientious involvement with the teaching staff and the Head of office. This harmony guarantees swiftness and accuracy for all working towards the mission stated.

6.1.3 What is the involvement of the leadership in ensuring?

- **The policy statements and action plans for fulfillment of the stated mission**

The Principal offers the highest degree of involvement in matters of policy statements and action plans, acting as he does as the coordinator of the divergent bodies such as the IQAC, the Representatives of the Students, the Teachers' Council, the Stakeholders, the GB and the Government, all engaged in fulfilling the mission.

- **Formulation of action plans for all operations and incorporation of the same into the institutional strategic plan**

The management keeps a very strong vigil on the fulfillment of the action plans and incorporation of the same into the Institutional strategic plans. The Principal, the teaching and non-teaching staff and the other supporting staff of the College are involved in executing the same. The Head of the Institution and the Heads of the different departments along with the faculty members ensure that the College maintains a very strong academic environment. There is a very active Disciplinary Committee which controls the disciplinary matters of the College. The departmental teachers solve the problems, if any, relating to the discipline of the in-house students. During College admissions and University examination, the disciplinary committee keeps a very strong vigil to maintain a congenial disciplined environment in the College. The leadership of the Institution shows strong commitment to incorporate the culture of excellence by providing technical support to the teaching and supporting staff for improving their efficiency in discharging responsibilities.

- **Interaction with stakeholders**

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.

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 stakeholders**

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 this institution has been known as a centre having an excellent academic environment. Many distinguished personalities were either teachers or Principal 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. Some teachers have Research Projects funded by different agencies and some are publishing articles in different journals.

The teaching, non-teaching members and students of the college are made aware about the protection of environment. Community orientation through NSS activities is a major step to instill 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 makes it successful in bringing out peer-reviewed academic journal *Intelligentsia* whereby the research orientation of teachers will be promoted greatly.

- **Champion organizational change**

Principal keeps in mind the recommendations of the Governing Body and the Teachers' Council whenever possible. The Career Counseling Cell of the College 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.

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 and 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.

The Principal regularly meets with the different stakeholders of the college 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?

The Principal guide the faculties to organize seminars, symposium, conferences, workshops, excursions etc. Board of Studies of different PG departments set the academic strategies and plans for effective implementation of teaching and learning process. The faculty members are also encouraged to conduct research projects and to participate in orientation and refresher courses.

6.1.6 How does the college groom leadership at various levels?

The teachers function in different ways for the smooth running of the college. They conduct College Admission, University examinations, Students' Union election, Excursion, Project work and various other administrative works. This helps the teachers to build up their leadership in academic as well as college administration. The teachers also act as Officer-in-Charge as and when required.

Another important role of the college authority is to groom leadership among the students. 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 participates 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.

The non-teaching staffs are also a member of 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.



Photograph 6.3: A dedicated students' section

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 module distribution among the teachers for the department, departmental routine preparation, arranging of seminars, tutorial and remedial classes, functioning of departmental libraries, departmental excursions and conducting of departmental meeting on various matters.

The PG departments in addition, enjoy academic autonomy.

The Heads of the Departments have the responsibility to have an overall supervision on academic and some financial matters related to the department.

Different sub-committees formed in the Teachers' Council such as Admission Committee, Anti-Ragging Committee, General Grievance Committee, etc. have operational autonomy in dealing with their respective issues.

The Principal sets guidelines of fund distribution in consultation with the Departmental Heads and the Purchase Committee monitors the whole process in accordance with the Government rules.

UGC Committee monitors the issues related to the UGC, DST and other organizations in consultation with the Principal. During XIth Plan UGC has sanctioned Rs. 5317832.00/- (Rupees Fifty Three Lakh Seventeen Thousand Eight hundred and Thirty Two) for the development of college regarding books and journals, equipments, up gradation of computers and internet facility, career counseling etc.

During XIIth Plan UGC has allocated Rs. 1506600/- (Rupees Fifteen Lakh Six Thousand and Six hundred) for the development of college regarding books and journals, equipments, IQAC, NET Training Facility, Extension Activity, Fieldwork & Travel grant etc.

6.1.8 Does the college promote a culture of participative management? If 'yes', indicate the levels of participative management.

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.

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?

To impart quality education the Principal of the college along with the Teachers' Council develop certain issue related policies at the beginning of each academic session. The policies are driven and deployed by the sincere efforts and hard work of the teachers, co-operation of the non-teaching staff and other stakeholders of the college. Finally it is reviewed by the annual report of IQAC.

6.2.2 Does the Institute have a perspective plan for development? If so, give the aspects considered for inclusion in the plan.

The Institute formulates its plan for development by considering certain issues. It takes into consideration the development of Teaching-Learning process, research activities and development of infrastructural facilities. Grants received from the State Government as well as from UGC, DST etc. are utilized effectively for this purpose. Keeping in mind the needs of the society the college introduced the PG course in Chemistry in 2013, the first batch of which passed out successfully. PG course in Microbiology and Zoology are also introduced in 2004. The General course in Geography was converted to Honours level in 2013.

6.2.3 Describe the internal organizational structure and decision making processes.

The Teachers' Council, presided by the Principal regulates various academic activities and forms different subcommittees like Admission, College and University Examination, Disciplinary, Women Grievance Cell, Anti-Ragging, Research Cell, Placement and Career Counseling Cell, Time Table, NSS, Sports and Magazine to mention a few. All these committees comprising of a Convener and members perform their respective duties. IQAC headed by a coordinator concerns about the quality sustenance and enhancement of the college. Teachers' Council secretary

conveys the necessary information to the respective departments. Head of the departments along with the staff members run the departmental activities.

Official work of the college is run by the Head-clerk along with the other office staff.

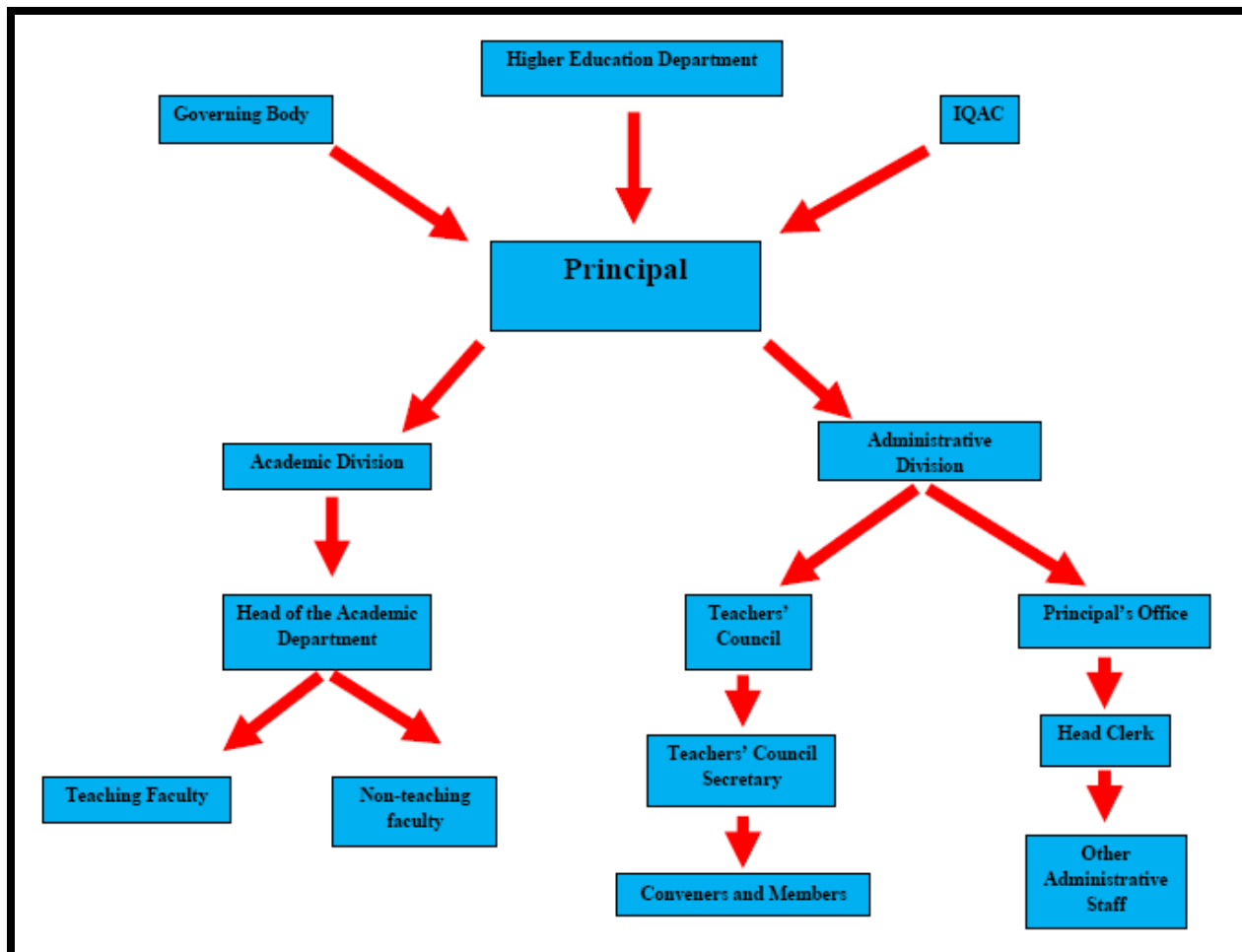


Figure 6.1: Organizational Structure of the College

6.2.4 Give a broad description of the quality improvement strategies of the institution for each of the following:

- **Teaching & Learning**

At the beginning of every academic session the Heads of the Departments interact with the other teachers of the department to plan the modules, laboratory classes and syllabus distribution. Academic performance of the students in the College and University examinations is analysed. The weak points of students are identified and remedial measures are suggested. The teachers also try to find out ways for helping out the slow learners and encouraging the advanced learners. Educational excursions of students for different departments are conducted as on-curriculum or 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.

The students are encouraged to spend some quality time at their own departmental libraries to carry out their reference work.

Most of the departments organize departmental seminars, invited lectures regularly.

Project, students' seminars are in the curriculum of the PG students, but the students at the undergraduate level are also encouraged in this regard.

Students from weaker sections are given support in their studies by way of full or partial tuition fee waiver. Care is taken so that no student drops out for financial condition.

• Research & Development

Research activities are encouraged in the Institute both among the teachers and the students. Departmental seminars, workshops are organized regularly where reputed personalities are invited. The departments also organize state or national level seminars funded by different agencies. A number of minor and major research projects are running in different departments. The teachers are encouraged to participate in faculty development programmes. The college also encourages its faculties to participate in Seminars, Workshops, Symposiums organized by other institutions. The College has also received a funding of Rs. 52.5 lakhs under the DST-FIST scheme for this purpose. Teachers also have publications in national and international peer-reviewed journals on a regular basis.

The college is going to publish an Academic Journal *Intelligentsia*, the details of the board is given hereby:

Advisory Board

Chief Advisor	Dr. Subhas Chandra Jana	Officer – in Charge
Members	Prof. Elisabetta Marino	Dept. of English, University of Rome, Italy
	Prof. Sanjukta Dasgupta	Former Dean, Arts Faculty, CU
	Prof. Panchanan Das	Dept. of Economics, CU
	Prof. Chandan Mazumdar	CMP Division, Saha Institute of Nuclear Physics, Kolkata.
	Prof. Dulal Chandra Mukherjee	Former Professor, Dept. of Chemistry, CU.
	Prof. Nitai Chandra Mandal	Former Scientist, Bose Institute, Kolkata

Editorial Board

Editor (Arts Section)	Dr. Ketaki Datta	Dept. of English
Editor (Science Section)	Dr. Sumona Mukherjee	Dept. of Botany
	Dr. Ranjan Ghosh	Dept. of Physics
Members	Dr. Nikhil Chandra Pramanik	Dept. of Chemistry
	Dr. Anup Kumar Sengupta	Dept. of Mathematics
	Dr. Lina Sen	Dept. of Bengali

Dr. Dola Chattopadhyay	Dept. of Economics
Dr. Mousumi Mukhopadhyay	Dept. of Botany
Dr. Sandip Bandyopadhyay	Dept. of Microbiology
Sri Siddhartha Dey	Dept. of English
Smt Shewli Sabnam	Dept. of Geography

Whether listed in any international database : No

- **Community engagement**

The college has an active NSS unit which has increased its activities over the last few years. Several outreach programme have been successfully organized. Large numbers of students as well as teaching and non-teaching staff have participated in Thalassemia detection camp. The college helps different wings of the Government to arrange its public examinations. The teachers and non-teaching staff of the college extend their active participation to conduct those examinations.

- **Human resource management**

The teaching faculty works in different committees and thus takes the responsibility of various academic and administrative activities of the college. One of them is in charge of Students' Union. They are also engaged in research work. The Principal encourages the involvement of the teachers in meaningful decision-making processes. The teachers also take the charge of various extensions and out-reach programme of the students. The teaching faculty is entitled for career advancement as per government rules.

The non-teaching staffs 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 is 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 Counseling 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 counseling and job recruitment sessions.

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?

Adequate information regarding the activities of the institution is available to the Head of the institution from the continuous interaction with the teachers as well as the non-teaching staff. Departmental activities are discussed with the Heads of the departments whereas, activities of various committees are discussed with the conveners and other staff members on a regular basis.

Formal feedback is available from the students of third year of each department. Parent-Teachers' meeting is conducted after the Mid-term examinations in each department. Feedback from the parents is recorded and sincere effort is made to address the issues.

Teachers' Council meeting is another platform to review the academic activities of the Institution.

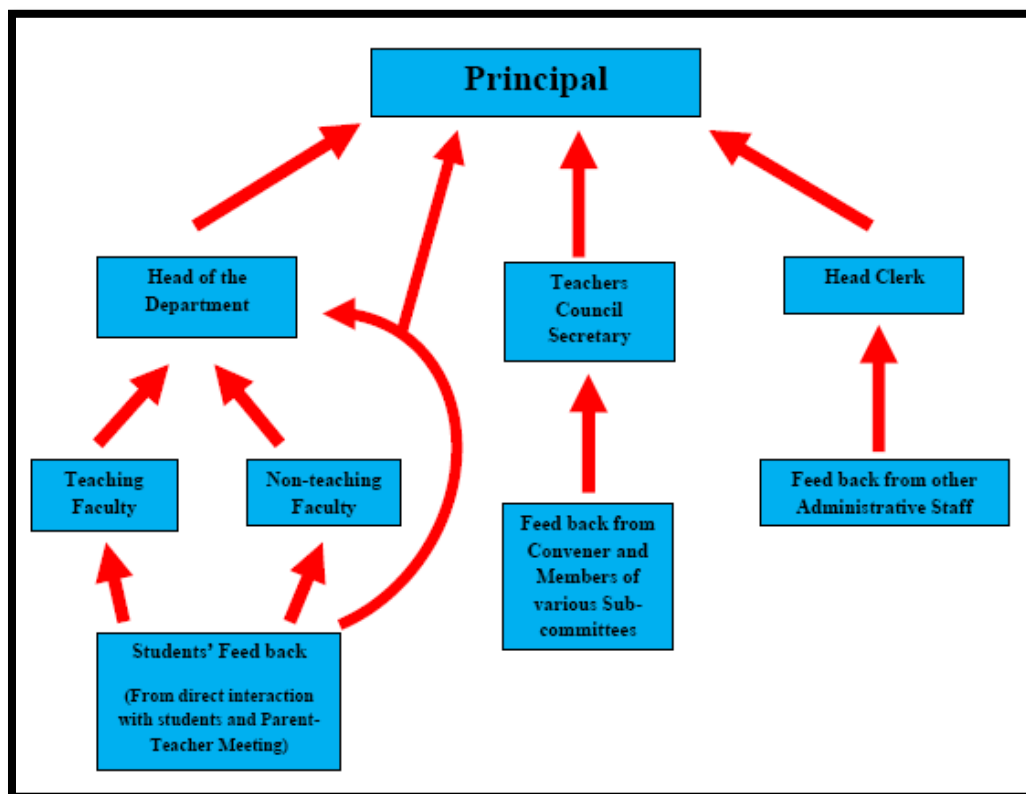


Figure 6.2: Internal feedback system of the college

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 have representatives from both teaching and non-teaching staff. Sincere effort is taken to implement the proposals raised by these bodies as well as the Teachers' Council to enhance the efficiency of the institutional processes.

The non-teaching staff of the college always keeps in touch with the management.

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 of the college was reconstituted on 05.06.2012 (G.O.No. 553-Edn(A)/10M-62/12). The composition of the Body was as follows – Two Teachers' representatives, Two Government nominee, Two Vice-Chancellor's nominee, Head Clerk, General Secretary of Students' Union, Executive Engineer of PWD (Civil) of Bidhannagar Division II. A former

teacher of the department of English acted as the President and the Principal was the Member-secretary of the body. The body met about twice in a year upto 2014, resolving various academic and administrative matters for the quality enhancement of the college. Since 2015 no meeting can be held due to transfer and retirement of the teacher members. Communication has been made to the department of higher education in this regard for the formation of new governing body.

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?

No. Only Post Graduate departments have academic autonomy.

6.2.9 How does the Institution ensure that grievances / complaints are promptly attended to and resolved effectively? Is there a mechanism to analyse the nature of grievances for promoting better stakeholder relationship?

No complaints are brought forward to the Grievance Cell and Anti-ragging committee of the college in the last five years.

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?

There is only one occurrence of court case in the last five years. Smeeta Mondal of 3rd year Botany Honours attended the classes of 3rd year and would appear in the Part-III (Hons.) examination on 2016 but she did not receive the admit card of this examination in spite of having all the proper documents. She filed a writ petition through Calcutta High Court against W.B.S.U, its Vice-Chancellor, Registrar, Controller and Officer-in-Charge of Bidhannagar College (W.P.No.5753(W) of 2016). Her examination was scheduled to be on 28 and 29 March, 2016. Honourable justice Debangshu Basak ordered the university to issue a fresh admit card of the said examination with immediate effect, so that she can appear in the examination on the scheduled date. She later appeared for the exam successfully.

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?

A mechanism of quantification based on the analysis of student feedback is adopted, using parameters related to a variety of items like the Course ,the respective Department in general and the Teachers in particular. Quality, Responsibility and Punctuality/ Availability – these are the three distinct heads under which the questions set in the context of individual teachers are put and analyzed.

The outcome of such analysis has led ostensibly to the development of infrastructure as well as a psychological reorientation of teachers towards the better.

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?

The teachers regularly attend Orientation Programme, Refresher Courses and Summer Schools conducted by the various Academic Staff Colleges for their enrichment. They are encouraged in conducting research projects, participating in seminars and workshops. Further, the teachers also act as resource persons in seminars, workshops, etc. conducted by other colleges or universities. 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, students' data and various other functions of the office.

Table 6.1: Skill Enhancement of Non-teaching Staff

YEAR	NO.OF NON-TEACHING STAFF	COURSE/ TRAINING PROGRAMME	REMARKS
2011-2012	6	Course on Computer Concept	For running college administration
2013-2014	5	Basic Computer Course	Same as above
2014-2015	-	-	-

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, 47 no. of teachers have been able to complete Refresher Course, Orientation Programme and 21 teachers were awarded Ph.D. The College authority has always been supportive of such needs of the teachers.

The faculty members are also engaged in various activities of academic leadership. They perform their duties as the BOS members of the West Bengal State University and other autonomous colleges in the state. They also act as nominated members for CAS of teachers, WBPSB Recruitment Board etc.

The teachers of every department are engaged to perform as Head Examiner, Examiner, Scrutinizer, Paper setter, Moderator etc.

Table 6.2: Information on Faculty Empowerment

[A] Faculty members Pursuing/ Completed PhD in last five years:

Department	Faculty	Research Topic	University	Status
Anthropology	Sudesna Chanda	On the variation of primate head hair	University of Calcutta	Awarded Ph.D. in 2010
	Krishnendu Polley	A study on experimentally manufactured lower paleolithic tools and their Debitages.	University of Calcutta	Awarded Ph.D. in 2014
Botany	Subhadipa Sengupta	Development of marker free insect resistant transgenic rice	Jadavpur University	Awarded Ph.D. in 2010

Department	Faculty	Research Topic	University	Status
		planttype: a clean gene approach		
	Dwaipayan Sinha	Genetic diversity of <i>Pinus roxburghii</i>	Delhi	Awarded Ph.D. in 2015
Bengali	Sk Emanul Haque	Unishshotoker bangla kathasahityebangalirbiratwa	University of Kalyani	Awarded Ph.D. in 2015
Chemistry	Rituparna Biswas	Studies on Ni (II) & Fe (III) complexes with some N ₂ O donor Schiff base ligands	University of Calcutta	Awarded Ph.D. 2014
	Dr. Anisur Rahaman Molla	Folding and Association of Oligomeric Proteins: Studies with Galactose-Specific Lectins	University of Calcutta	Awarded Ph.D 2013
	Dr. Shubhankar Samanta	Synthesis of Heterocycles and Carbocycles By Heck and Michael Reactions	IIT Kharagpur	Awarded 2011
	Susanta kumar Manna	Synthesis, Photophysical and biological studies of heterocyclic compounds	Vidyasagar University	Registered for Ph.D. in 2015
Education	Priyanka Datta	Home environment, mental health, emotional intelligent & procrastination in relation to the academic achievement of higher secondary students	University of Calcutta	Registered for Ph.D. in 2014
	Shikha Roy	Impact of life skill education & home environment on the mental health & adjustment of adolescents	University of Calcutta	Registered for Ph.D. in 2015
Mathematics	Ramkrishna Thakur	Study on spectral theory of Banach Algebra and compact linear operators.	Visva Bharati	Registrared for Ph.D. in 2013
Microbiology	Sandip Bandyopadhyay	Isolation & characterisation of plant growth promoting Rhizobacteria from different agricultural fields of N24Prngs	Jadavpur University	Awarded Ph.D. in 2014
	Masrupe Alam	Evolution and Interactions of the Sox (Sulfar Oxidation) multienzyme complex of lithotrophic bacteria.	University of Calcutta	Awarded Ph.D in 2015
	Mr. Sudipta Chakraborty	Studies on antileishmanial activity of arsenic nanoparticle	University of Calcutta	Registered for Ph.D in 2015
	Dr. Upal Das Ghosh	Isolation and characterization of the bacterial consortium associated with the roots of <i>Typha</i> , growing on heavy metal enriched wetlands.	University of Calcutta	Awarded Ph.D. in 2011

Department	Faculty	Research Topic	University	Status
	Mr. Sandip Misra	Post translational modulation of PTEN and its implication on maintaining genomic integrity	Jadavpur University	Registered for Ph.D in 2013
	Mr. Sourav Pakrashi	Studies on impact of agrochemicals on neurodegeneration.	W.B.U.T	Registered for Ph.D in 2013
Philosophy	Sankalita Ghosh	Bharotiyo Darshane Karjaya-Karan Tattva O Avayava Avayabi Prasanga	Jadavpur University	Awarded Ph.D. in 2010
Physics	Supriya Chatterjee	Dynamics of half-cycle pulse induced Rydberg wave packets	Visva Bharati	Awarded Ph.D. in 2015
	Soumyabrata Mondal	Some studies on electrification & plasma processes in the solar planetary atmosphere from reception of radio signals	University of Kalyani	Awarded Ph.D. in 2015
Political Science	Tathagata Chakrabarti	Folklore, politics & social change: Gambhira festival of North Bengal	Gauhati University	Awarded Ph.D. in 2013
Zoology	Suman Mukherjee	Studies in Toxological response of <i>Lamellidens Marginalis</i> to azadirachtin based pesticide	University of Calcutta	Awarded Ph.D. in 2011
	Dip Mukharjee	Toxicity of pulp and paper mill effluents and some of its ingredients on fish, fish food organisms and aquatic ecosystem along with management of effluent quality	West Bengal State University	Awarded Ph.D. on 18.03.2016
	Biswatosh Ghosh	Ethobiology& ethochemical understanding of semiochemicals (pheromone) of some Indian mammalian species	Jadavpur University	Registered for Ph.D. in 2012
	Dr Somnath Mandal	Studies on toxicological response of <i>Lamellidens marginalis</i> to azadirachtin based pesticide	University of Calcutta	Awarded Ph.D. in 2011
	Dr Saurabh Chakraborti	Organization of adhesive toe pad of <i>Philautus annadalii</i> (Boulenger, 1906): An ultrastructural and immunohistochemical study	Vidyasagar University	Awarded Ph.D. in 2014
	Urmi Mitra	Environmental Risk Assessment in Aquatic System through Monitoring of Response of a Carp <i>Labeo rohita</i> against PAH compounds	University of Calcutta	Registrared for Ph.D. in 2014

Department	Faculty	Research Topic	University	Status
Statistics	Ajoy Kumar Biswas	Some issues in psychometry: probability based approach	Netaji Subhas Open	Awarded Ph.D. in 2014
	Kiranmoy Chatterjee	Some contribution to the problem of estimation population size based on dual-record system	Indian Statistical Institute	Registered for Ph.D. in 2015

[B] Faculty members Attending Orientation Programme/ Refreshers Course in Last Five Years:

Department	Faculty	Programme/ Course	Year
Anthropology	Sankha Priya Guha	Refresher Course	2014
	Sudesna Chanda	Orientation Programme	2012
		Refresher Course	2013
	Krishnendu Polley	Orientation Programme	2012
	Krishnendu Polley	Refresher Course	2014
Botany	Dr. Kajari Lahiri	Refresher Course	2013
	Dr. Kausik Majumder	Orientation Programme	2011
		Refresher Course	2013
	Dr. Mousumi Mukhopadhyay	Orientation Programme	2011
		Refresher Course	2013
		Refresher Course	2015
	Dr. Dwaipayan Sinha	Orientation Programme	2014
Dr. Subhadipa Sengupta	Orientation Programme	2013	
Bengali	Lipika Saha	Refresher Course	2011, 2014
	Jayanta Mistri	Refresher Course	2015
English	Aniruddha Pal	Refresher Course	2010
Chemistry	Kaushik Maji	Orientation Programme	2015
Chemistry	Tirtha Pada Majhi	Orientation Programme	2013
		Refresher Course	2015
Chemistry	Anisur Rahaman Molla	Orientation Programme	2012
		Refresher Course	2013
Chemistry	Arabinda Mandal	Orientation Programme	2014
Chemistry		Refresher Course	2015
Chemistry	Shubhankar Samanta	Orientation Programme	2014
Chemistry		Refresher Course	2015
Chemistry	Susanta Kumar Manna	Orientation Programme	2014
		Refresher Course	2015
Economics	Tina Barma	Refresher Course	2012
	Moumita Basu	Orientation Programme	2014
		Refresher Course	2015
Geography	Rituparna Khan	Orientation Programme	2010
		Refresher Course	2012
History	Swati Sen	Refresher Course	2014
Mathematics	Ramkrishna Thakur	Orientation Programme	2015
		Refresher Course	2014
Microbiology	Abul Kalam	Orientation Programme	2010
		Refresher Course	2011

Philosophy	Sankalita Ghosh	Refresher Course	2013
Philosophy	Pradipta Mukhapadhyay	Refresher Course	2010
		Refresher Course	2014
Physics	Supriya Chatterjee	Orientation Programme	2013
		Refresher Course	2015
Political Science	Suparna Sengupta	Refresher Course	2012
Zoology	Suman Mukherjee	Orientation Programme	2012
Zoology		Refresher Course	2014

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 and administrative activities done inside and outside the college. These Self-Appraisal reports are submitted to the Principal every month and are forwarded by the Principal to concerned higher authorities. All such reports of a teacher are required for their career advancement, promotion to a higher post, deputation posting to a responsible post as well.

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.

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 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?

As part of the welfare schemes, the permanent employees of the College are entitled to the General Provident Fund (GPF), Group Insurance (GI) Scheme and the Cashless Health Scheme of the Government of West Bengal which includes family members of the employees. The GPF and GI schemes are compulsory for all. The Health Scheme starts from 2008 and 80.64 % of employees have availed this benefit till date.

6.3.6 What are the measures taken by the Institution for attracting and retaining eminent faculty?

Being a Govt. college it cannot appoint or retain faculty on its own. The recruitment of the teaching staff is done by the department of Higher Education through the Public Service Commission, West Bengal. However the College engages eminent faculties as Guest Teachers in the Postgraduate departments.

Table 6.3: Information on Invited Lectures

Department	Topic	Resource Person	Date
Botany	Scope of Palaeobotany and Palynology	Dr. Ashalata D'Rozario Associate Prof. Narasinha Dutt College, Howrah	30.01.2016
English	An Interactive Session on Active Shakespeare	Dr. Bikram Ghosh Theater Person	13.02.2012
	Students' seminar and counselling	Dr. Minaskhi Krishnan RSC, Barrackpore	18.04.2012
	Please take it personally: Theory & Identity	Dr. Niladri Chattergee Kalyani University	10.09.2012
	A talk on W. Blake	Dr. Subir Dhar Rabindrabharati University	14.09.2012
	Basic concerns of modern linguistics	Dr. Indranee Ghosh Bidhannagar College	06.12.2014
	Third Theatre & breaking the 4 th wall	Dr. Indranee Ghosh Bidhannagar College	27.02.2015
Anthropology	Human Evolution: Indian Evidences in Global Perspectives	Dr. A. R. Sankhyan Palaeoanthropologist, Anthropological Survey of India	03.02.2016
Chemistry	Mononuclear and binuclear dioxomolybdenum(VI) complexes: synthesis, characterization and metal-organic supramolecular architect	Ms. Debanjana Biswal Calcutta University	06.04.2016

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?

A committee consisting of teaching and/or non-teaching staff are constituted every year regarding purchases and to monitor the utilization of resources.

A UGC committee has also been formed to deal with the allocation and utilization of fund received from UGC.

E-tendering process is ensured to maintain transparency in purchase related matters.

Records of purchases, bill and cheque registers, stock books etc. showing receipts and disbursements are maintained and regularly updated.

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.

The last audit was done on 14.02.2014 for the period 01.01.2011 to 31.12.2013 and the major objections were as follows:

- A separate account may be maintained for the management and maintenance of grants received from UGC
- Fees, Caution money and other development fees that were collected through pay-in-slip should have duplicate copy.
- Physical verification of liquid cash balance at the end of each month is required to be done by the DDO and result of such verifications need to be recorded in the cash book as per the provision of the existing financial rules.
- The bill register need to be reviewed monthly by the DDO to prevent fraudulent presentation of bills and the result of such review need to be recorded thereon in terms of provision of existing rules in vogue. But the said procedures were not followed during the entire period under audit.
- Maintenance of stock register should be done more strictly.
- Step should be taken for the disposal of un-serviceable articles also beyond economic repairs.
- no book borrowed from the college library by a teacher/member of non-teaching staff shall be retained for a period more than three months at a stretch. annual verification of Library Books were held the period under audit.
- During checking of Cash Book, Bill Register & Payment Vouchers in respect of electricity bills for the period of audit, it was noticed that an extra expenditure of Rs. 17,198.00 were made to WBSEDCL, in respect of delay payment surcharge charged by WBSEDCL.

The following steps were taken to meet up the Audit queries.

- ✓ A subsidiary cash book for recording grants from UGC is being maintained with effect from 01.01.2011.
- ✓ Duplicate copy of pay in slip is being maintained systematically and date wise with effect from July 2014. Since July 2016 all financial transactions are made through bank.
- ✓ Physical verification of cash balance at the end of each month is being done regularly.
- ✓ Monthly review of Bill Register by the DDO is being done with effect from March 2014.
- ✓ Stock registers are being maintained in all the departments. The Office also maintains a stock register with proper entries.
- ✓ A committee for disposal of un-serviceable articles has been formed and it is functioning accordingly.

- ✓ All the books retained by the staffs of the college have been recovered and recorded accordingly.
- ✓ Electric bill is being paid on time via ECS.

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 the reserve fund/corpus available with Institutions, if any.

The institution receives annual funds under the Head Plan and Non-Plan from the Government of West Bengal. The College has also received fund from the UGC and DST-FIST. The details of receipts and expenditure from different grants for the last five years are listed in next page.

Table 6.4 : Statement of Account of Development Grant (Plan) During the Last Five years

Year	Books		Equipments		Chemicals and Glasswares		Travel		Furniture		Contingency	
	Amount Sanctioned	Amount Utilized	Amount Sanctioned	Amount Utilized	Amount Sanctioned	Amount Utilized	Amount Sanctioned	Amount Utilized	Amount Sanctioned	Amount Utilized	Amount Sanctioned	Amount Utilized
2010-11	25000	25000	900000	891431	700000	699346	137700	75232	500000	499343	50000	49975
2011-12	50000	50000	1400000	1399376	1200000	1199497	137000	105823	800000	799406	100000	99754
2012-13	1500000	824083	1500000	1222396	1500000	1444591	167000	25023	2606458	2582866	100000	92601
2013-14	400000	399954	800000	738355	700000	697437	167440	-----	1000000	998534	100000	91712
2014-15	150000	149900	200000	199778	300000	294330	-----	-----	3312290	3312227	100000	99990
2015-16	150000	150000	250000	249273	300000	299114	-----	-----	-----	-----	100000	99951

Table 6.5 : Statement of Account of Development Grant (Non-Plan) During the Last Five years

Year	Fund Allotted (in Rupees)	Expenditure (in Rupees)	Balance
2010-11	88198000	73854824	14343176
2011-12	103170000	75424637	27745363
2012-13	121306000	75965348	45340652
2013-14	119852000 +25464500 (Arrear Component)	77027957+23223151 (Arrear Component)	42824043 +2241349 (Arrear Component)
2014-15	126947000 + 13967971 (Arrear Component)	76729158+ 13958674 (Arrear Component)	50217842+9297 (Arrear Component)
2015-16	92800750	83945935	8854815

Table 6.6: Statement of Account of UGC Grant during XIth Plan

Sl. No.	Head of Account	Grant Received (Rupees)	Grant Utilised and Audited as on 30.08.2011 (Rupees)	Grant Utilised and Audited as on 17.09.2014 (Rupees)	Total Utilised Grant (Rupees)
1	Books and Journals	300000	300000	0	300000
2	Equipments	400000	397759	0	397759
3	Fieldwork/Study Tour/ Extension activities	76832	55000	21584	76584
4	Books (PG)	20000	20000	0	20000
5	Equipments (PG)	40000	40000	0	40000
6	Books (PG)	20000	20000	0	20000
7	Equipments (PG)	40000	40000	0	40000
8	Network-Upgradation of Computers/ Purchase	90000	90270	0	90000
9	Internet	12000	11169	0	11169
10	UGC-NET Nonrecurring	200000	0	199673	199673
11	UGC-Net Recurring	40000	0	40147	40000
12	Equipments for differently abled persons	150000	149559	0	149559
13	Career Counseling Cell	140000	104205	27735	131940
14	Additional Grant (Equipment-Teaching Aids)	1539000	851480	683790	1535270
15	Special Grant NAAC accredited colleges	1000000	840000	140970	980970
16	Special Equipment Grant (Additional Assistance)	1250000	0	1249634	1249634
	Total	5317832	2919442	2363533	5282558

Table 6.7: Statement of Account of UGC Grant during XIIth Plan

Sl. No.	Head of Account	Grant Received (Rupees)	Grant Utilised and Audited as on 30.08.2011 (Rupees)	Grant Unutilized (Till Date) (Rupees)
1	Books & Journals	312112	99847	212265
2	Equipments	170000	52366	117634
3	IQAC	300000	NIL	300000
4	Net Training (Recurring)	50000	NIL	50000
5	Net Training (Non Recurring)	50000	NIL	50000
6	Extension Activity / Field Work / Study Tour	120528	NIL	120528
7	Barrier Free Education	100000	NIL	100000
	TOTAL	1102640	152213	950427

Table 6.8 : Statement of Account of DST-FIST

Date of implementation : 18/10/2013

Financial year	Fund Allotted in Rupees	Fund utilized in Rupee
2013-14	5250000	
2014-15		2663025

6.4.4 Give details on the efforts made by the institution in securing additional funding and the utilization of the same (if any).

The college has received additional funding from the UGC during XIth plan, details of which has been included in the table for the statement of account of UGC.

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 29.01.2013 as per the UGC-NAAC guidelines.

With regard to the quality assurance of the Institute this cell :

- monitors the teaching, research and other activities of the departments
- collects the feedback regarding teaching learning process and other infrastructural facilities of the college from the students

- analyses the feedback and place suggestions accordingly
- encourages the co curricular and extra-curricular activities, extension programme and community service to be held in the college
- suggests financial assistance to needy and meritorious students
- submits the Annual Quality Assurance Report (AQAR) to NAAC

b. How many decisions of the IQAC have been approved by the management / authorities for implementation and how many of them were actually implemented?

Most of the decisions made by IQAC have been approved by the authority and attempts were made to implement them.

Some of them are summarized in the following table.

Table 6.9: IQAC Resolutions

Sl. No.	Resolutions Made	Status of Implementation
1	To introduce some value added program	Introduction of i) Gender sensitization program, ii) Psychological counseling cell,
2	To introduce some skill orientated program	Computer training by DOAEC - NIELIT was introduced s
3	To invite students' mentoring program from the departments	Departments take care of academically Challenged students through tutorial classes and other measures.
4	To organize co curricular activities like Invited lecture, Students' seminar, Excursion etc.	Invited lectures are regularly organized by different departments.
5	To arrange inter departmental co operative schemes like cross subject discussion, interactive session etc.	Inter departmental classes in the department of Zoology, Microbiology, Chemistry and Statistics take place.
6	Suggestions from the departments to held Community Extension program	Awareness program was held from Microbiology department.
7	To maintain Students' details and support mechanime in the departments	Students' details are maintained in respective departments. Scholarships are provided to the suitable students.
8	To improve the function of Career guidance and Campus recruitment	Effective measures are taken by the Career Counseling committee.
9	To reconstitute the committee for Gender sensitization	Reconstituted every year.
10	To reconstitute the Grievance redressal cell	Reconstituted every year.
11	To encourage the faculty development programme	A number of teachers participate in OP /RC in each year
12	To encourage the staff development programme	In DOEACC-NIELIT computer centre the staff are encouraged to develop the necessary skills for the administrative work.

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 among us the Hon'ble Mayor of Bidhannagar Municipal Corporation. A list of members of IQAC for the current year is shown in the following table.

Table 6.10: Composition of IQAC

1	Chairman	Dr. Subhas Chandra Jana, Officer-in-charge, Bidhannagar College
2	Senior Administrative Officer	Joint Director of Public Instruction, Department of Higher Education, Government of West Bengal
3	Co-ordinator	Sri Arup Kumar Hait, Associate Professor in Statistics
4	Teacher Members	Dr Tapasree Chattopadhyay, Teachers' Council Secretary
		Dr. Kankan Chowdhury, Librarian, BCKVB, Kalyani
		Dr Sumona Mukherjee, Associate Professor in Botany
		Sri Tapomay Das, Associate Professor in English
		Dr Ranajit Karmakar, Associate Professor in Zoology
		Dr Bimal Kr Mandal, Associate Professor in Physics
		Dr Anup Kr Sengupta, Associate Professor in Mathematics
		Prof. Achintya Kr Sarkar, Professor in Chemistry
5	Members from the Management	Prof. Tapan Dutta, Bose Institute.
6	Local Society Members	Sri Sujit Bose, MLA
7	Student Representative	General Secretary of Students' Union
8	Alumni Representative	Smt. Seuli Das Karmakar, Associate Professor in Philosophy

d. How do students and alumni contribute to the effective functioning of the IQAC?

Both the Students Union and the Alumni Association are keen on promoting the quality of the institution.

The students help the institution in different activities like admission, games and sports, cultural programme, extension lectures, seminars and workshops, NSS programme etc.

The Alumni Association is also concern about the quality enhancement of the college.

e. How does the IQAC communicate and engage staff from different constituents of the institution?

The IQAC has its teaching, non-teaching and student members. Different constitutions are aware of the activities of IQAC through regular meeting.

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 operationalisation.

The institution maintains an integrated framework for Quality assurance of the academic and administrative activities.

- The teachers continuously evaluate the students based on their classroom interactions. They convey their evaluations to the parents in the Parent-Teachers’ meeting. Slow learners thus can be identified and special care are taken for them.
- Students are encouraged to use the internet for their reference work
- Seminars and invited lectures are organized to acquaint the students with different perspectives related to their subject.
- Psychological counseling is being made available for the sake of the students
- The students are always encouraged to be in touch with the central library as well as the departmental library
- The College Library has access to online journals through Inflibnet.
- The computerization of the College office, incorporation of software such as COSA, E-Bantan, E-Pradan etc. have increased the quality of the administrative activities of the college.

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.

Teachers undertake faculty development programme as per the guidelines. They also follow CAS guidelines for their career advancement.

Non-teaching staff are offered training regarding office computerization, COSA etc.

6.5.4 Does the institution undertake Academic Audit or other external review of the academic provisions? If ‘yes’, how are the outcomes used to improve the institutional activities?

We have recently initiated the formal procedure for Academic Audit. But there are several provisions for external and internal review of academic quality

- Teachers have their publication in reputed national and international journals. Many teachers have received funds for research works both from government and nongovernment sources.
- Class tests and tutorials for students are held regularly. We regularly conduct seminars in different fields of interest. The third year students of some of our departments submit their project on current topics as the part of their course.
- We regularly conduct remedial coaching classes for socially and economically backward students of the college.

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.

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 teaching-learning process is reviewed primarily in the departments. The performances of the students are evaluated in the class tests and selection tests. The results are scrutinized by the result-review committee in a Teachers' Council meeting
- The Principal ensures effective teaching-learning process in the college by constant interaction with the departmental Heads and other teachers
- Students can review the mechanism by their feedback
- Parents are communicated about the academic performances of the institution in Parent – Teachers' meeting
- This mechanism helps in Quality sustenance and improvement of the teaching learning process.

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 notices, letters, college website and college prospectus.

The major quality assurance policies are discussed in the Teachers' Council meeting before their implementation.

The Officer-in-charge meets the students' union on a regular basis to make them aware about the quality assurance of the college.

Meetings are also held with the non-teaching staff for the smooth running of the college office.

Quality assurance policies are communicated to the parents in the parent-teachers' meeting.

The college thus maintains an academic quality assurance and teachers-students relationship in the college.

Any other relevant information regarding Governance Leadership and Management which the college would like to include.

The college inculcates leadership in different academic and administrative domain. Many of the present faculties have been in administrative chair in recent past. Further a number of teachers from this college were engaged in different administrative works with respect to the department of Higher Education, Government of West Bengal, some of which are listed below.

Table 6.11: List of Teachers Served in Administration

Name of the Faculty members served/serving in the college	Important Administrative posts held previously
Prof. Dipak Mondal, Former Principal	Vice Chancellor, Sidhu Kanhu University, Purulia Former Director of Public Instruction, Department of Higher Education, Govt. of West Bengal.
Prof. Prabir Das, Former Principal	Former Member Secretary, West Bengal State Council of Higher Education. Former Principal, Barasat Govt. College. Former Principal, Krishnagar Govt. College.
Dr. Ramaprasad Bhattacharjee, Former Assistant Professor in Botany	Joint Director of Public Instruction, Department of Higher Education, Govt. of West Bengal.
Dr. Ashokendu Sengupta, Former Associate Professor in Physics	Director, State Commission of Protection of Child Rights.
Dr. Bandana Chakraborty, Associate Professor in Anthropology	Former Joint Director of Public Instruction, Department of Higher Education, Govt. of West Bengal.
Dr. Subhasis Chakraborty, Associate Professor in Physics	Former Officer in Charge, Haldia Government College. Former Joint Director of Public Instruction, Department of Higher Education, Govt. of West Bengal.
Dr. Sucheta Singha, Associate Professor in chemistry	Former Officer in Charge, Sister Nivedita Government College, Kolkata
Dr. Tapomay Das, Associate Professor in English	Former Director, Institute of English, Govt. of West Bengal
Dr. Narayan Chandra Bar, Associate Professor in Chemistry	Former Officer in Charge, Taki Government College
Sri Sudip Ghosh, Assistant Professor in Economics	Former Officer on Special Duty, Education Directorate, Govt. of west Bengal.
Dr. Partha Karmakar, Assistant Professor in Mathematics	Officer in Charge, Muragacha Government General Degree College
Dr. Dwaipayan Sinha, Assistant Professor in Botany	Officer in Charge, Mohanpur Government General Degree College

CRITERION-VII

INNOVATIONS & BEST PRACTICES

CRITERIA VII: INNOVATIONS AND BEST PRACTICES

7.1 Environment Consciousness

7.1.1. Does the Institute conduct a Green Audit of its campus and facilities?

Yes, Green Audit is conducted in the Campus of Bidhannagar College. The College is located in one of the greener areas of Salt Lake, so the process of assessing the environmental impact of the educational institution (in match with the definition of Green Audit) is carried out in a number of ways.

- A committee under the Teachers Council named College Beautification Committee regularly monitors the maintenance of an environment friendly campus.
- The P.W.D Department, Government of West Bengal, in consultation with the Principal regularly monitors the greenery of the college by de-weeding activities in the play ground and other common areas for maintaining the beautification.
- Annual plantation programmes are organized in the college to increase the greenery of the campus.
- The Botany Department of the College maintains a medicinal plant garden “*Parasar*” for creating an awareness and interest amongst the student and staff of the college.
- The College has been made a plastic free zone.
- Students and Staffs are constantly sensitized about clean and green environment through posters, seminars and other activities, like NSS.
- Laboratory disposal of different Chemicals and dead organisms are properly managed in accordance with the green audit policy of the Institution.

7.1.2 What are the initiatives taken by the college to make the campus eco-friendly?

- **Energy conservation**

Conservation of Energy is one of the primary areas of concern for Bidhannagar College. The following measures are taken within the institution’s premises to curtail wastage of energy and maintain optimum conservation. Sustenance of nature is the key concern of the institution in this regard.

- Efforts are made to increase the usage of alternate and renewable sources of energy as well as recycling of available natural sources for usable purposes. Mention may be made of solar energy and water treatment process in this regard.
 - Fans and lights are turned off when the students are not around, use of sunlight is maximised wherever possible.

- Doors and windows have tight seals and are closed when the air conditioner is running.
- Computers, UPS, printers and copiers are turned off at the end of the day to avoid wastage of energy.
- Equipments are monitored and serviced at regular intervals for proper operation.

- **Use of renewable energy**

As stated in the earlier point, Bidhannagar College has prioritized the usage of renewable and alternate forms of energy. Accordingly the following activities are performed:

- **Usage of solar energy** is practiced within the college campus. The principal and his office as well as all the departments of the college has one electric point (either light or fan) with the solar energy plant which is installed on the terrace of the college.
- **Water harvesting:**
Bidhannagar College (with the initiative of the Department of Botany) has constructed rain water harvesting infrastructure which provides supply of water for institutional use in different areas for watering plants and toilet use.
- **Efforts for Carbon neutrality**

Bidhannagar College, over the years, has tried to maintain carbon neutrality through a number of measures.

- Giving more importance to the greenery and plantation programmes within the college premises for more supply of oxygen and reduction of gaseous form of carbon.
- The institution boasts of a vast stretch of open land. With no big scale factory in the vicinity, carbon pollution level is generally low.
- The personal vehicles used by the staff members conform to state defined pollution rules and matches with Euro III and Euro IV specifications to reduce carbon emission.
- Installation of low energy lights in the new infrastructure has been done within the campus.



Photograph 7.1: Plantation Program in College Premise

- **Plantation**

- Plantation programmes within the college premise are held on a regular basis.
- Moreover, the gardener of the College effectively maintains the college garden which includes planting of seasonal flowers.
- Bidhannagar College has a medicinal garden “*Parasar*” in its campus. In this garden medicinal plants are grown and maintained on a regular basis.

- **Hazardous waste management**

- Chemical wastes are disposed off by the respective departments. No radioactive isotopes are used in any department.
- Disposal of pathogenic bacteria by Microbiology department is done by autoclaving. It is done by the students after class and also by the laboratory assistants.

- **e-waste management**

The institution being a government body, P.W.D (Electricals) looks after the e-related waste management.

7.2 Innovations

7.2.1 Give details of innovations introduced during the last four years which have created a positive impact on the functioning of the college.

- On line transparent admission through bank e-connect has been partially introduced from 2013 and completely from 2015. It has made the entire process smooth and less-time consuming for the stake holders.
- Installation of the computer based GIS information system in the department of Geography in 2014.
- Introduction of WI-FI network in the first floor of the main building of the college providing efficient, secure internet accessibility to all students and faculty.
- SMART Classes have been introduced from 2011 in the department of Chemistry to begin with then later in the departments of Botany, Zoology, Microbiology, and Geography to facilitate and enhance student-teacher interaction.
- Allocation of INR 52.5 lakhs under the **FIST Program of DST (Department of Science and Technology, Government of India)** has been utilised to purchase various laboratory instruments such as **FPLC, Bio-Safety Cabinet, High Speed Cold Centrifuge, - 80⁰C Deep Freeze and Rotary Evaporator with vacuum pump.**
- **UGC-NET** Coaching Centre for Life- Science only with special reference to Minorities started from 2013.

- Central Library upgraded with the installation of **UGC INFLIBNET** for online Library accessibility to various e-resources for the staff and students of the college from 2013.
- A **Career Counseling Cell** established in 2006 with the goal of increasing the scope and exposure of students in the job market is being continued.
- **Somenath Ghosh Memorial Laboratory** set up in the Department of Chemistry.

The Department of Economics has provided **internet connection** to its students in the Departmental Project Room from 2012.

A **Solar Energy Panel** had been installed in 2011 on the rooftop of the main college building with the UGC Sanctioned Grant of 8 lakhs 40 thousand under WBREDA (West Bengal Renewable Energy Development Authority).

Best Practice – I

1. Title of the Practice (2014-15): Seminar: Seminar on Thalassemia and Screening Test

2. Goal:

Thalassemia is caused by variant or missing genes that affect how the body makes hemoglobin, the protein in red blood cells that carries oxygen. People with Thalassemia make less hemoglobin and have fewer circulating red blood cells than normal, which results in mild, α Thalassemia or β Thalassemia with severe microcytic anemia. Thalassemia can cause complications, including iron overload, bone deformities, and cardiovascular illness. The goal was to create awareness and provide counseling to the carriers of Thalassemia.

3. The Context:

The college aims at the development of proper awareness of health and medicinal issues amongst its students to create a bright and healthy future for themselves and for their surroundings. Given the fact that people who are carriers of Thalassemia traits do not require medical or follow-up care after the initial diagnosis is made, it is easy to undergo the initial screening process in order to detect the existence of the variant gene in a particular person. Large scale awareness campaigns are being organized in India both by government and non-government organizations in favour of voluntary premarital screening to detect carriers of Thalassemia and marriage between both carriers are strongly discouraged.

4. The Practice:

The NSS Unit of Bidhannagar College organized a seminar on “THALASSEMIA” and conducted a “THALASSEMIA SCREENING TEST” on 25th March, 2015 at Bidhannagar College. The Haematology Department, N.R.S. Medical College and Hospital, Kolkata, took part in this programme. Dr. Tuhin Subhra Gayen, Medical Officer, N.R.S. Medical College and Hospital, delivered a lecture on Thalassemia elegantly. The students, teachers and non teaching staff of the college attended the programme. The students and teachers interacted with DR.

GAYEN regarding Thalassemia and the students enjoyed thoroughly the seminar and they learned a lot about the subject.

About 125 students, 20 teachers and 10 non-teaching staff attended the seminar. After the seminar, Thalassemia screening test was conducted and about 91 students went through this screening test of Thalassemia. Miss Mou Mukherjee, Mrs. Arpita De, Counsellor, Mr. Angsuman Chatterjee, Mr. Palash Samanta, Medical Technologist, Mr. Siddhartha Guha Thakurtha, Medical Assistant, conducted the screening test.

5. Evidence of Success

There was an overwhelming response from the part of the students and they spontaneously went through Thalassemia screening test.

The Medical Officer of N.R.S. Medical College and Hospital will separately call the students of Thalassemia carrier at N.R.S. Medical College along with their parents for counseling in due course.

The programme was a great success.

The Programme Officer, volunteers and the other members of the NSS Unit of Bidhannagar College conducted the Programme smoothly and efficiently.

6. Problems Encountered and Resources Required

Thalassemia being a genetic disease, those unaffected by it is often unable to comprehend the severity of it and fails to recognise the necessity of proper check-up and diagnosis. It being asymptomatic in most cases, there is no obvious expression of the disease. A voluntary check-up, therefore is a must.

7. Contact Details

Name of the Principal: Dr. Subhas Chandra Jana

Name of the Institution: Bidhannagar College

City: Kolkata.

Pin Code: 700064.

Accredited Status:

Work Phone : 03323374782

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Mobile: 9830072356

Fax : 033 23374782

E-mail : subhasjana1959@gmail.com

Best Practice – II

1. Title of the Practice: Student Excursion Programme

2. Goal:

In order to enhance their academic pursuit and to add to their classroom activities, the students of different departments are often taken to diverse fieldworks and other excursion programmes.

3. The Context:

The Departments of Anthropology, Geography, Microbiology, Botany and Economics have conducted fieldworks to supplement classroom teaching.

4. The Practice:

The Department of Geography organised field tour to Ghatshila (2 days).

The Department of Microbiology organised academic excursion to Vishakhapattanam (7 days)

The Department of Botany conducted field trips to Acharya Jagadish Chandra Bose Indian Botanic Garden, The Mushroom Cultivation Centre and Medicinal Garden of Narendrapur Ramakrishna Mission Ashrama, and to Nainital.

The Department of Economics arranged surveys amongst the Public Health Engineering Department of Barasat Municipality and Habra –I Block Development Office.

5. Evidence of Success

Students of these departments took part in the study and noted down observations which they later included in their academic performances. These tours have helped the students in gaining first-hand knowledge of their respective subjects and have introduced them to the applications of their learning.

6. Problems Encountered and Resources Required:

Travel and accommodation during the fieldworks was a problem as it involved journeys to remote parts.

7. Contact Details

Name of the Principal: Dr. Subhas Chandra Jana

Name of the Institution: Bidhannagar College.

City: Kolkata.

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Work Phone : 03323374782

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**PROFILE OF THE
OFFICER-IN-CHARGE**

PROFILE OF THE OFFICER-IN-CHARGE

1. **NAME:** Dr. Subhas Chandra Jana, WBES



2. **OFFICEDETAILS:**

BIDHANNAGAR COLLEGE

EB 2, SALT LAKE

KOLKATA 700064

TELEPHONE: 03323374782

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FAX: 03323374782

Email: subhasjana1959@gmail.com

ACADEMIC QUALIFICATION

Ph. D. (Bose Institute; Registration in University of Calcutta)

Post Doctorate (University of Wyoming, USA)

ADMINISTRATIVE/PROFESSIONAL EXPERIENCE

Academic Administration:

- Member: Board of undergraduate studies in Botany; University of North Bengal (1999-2003).
- HOD, Dept. of Microbiology, Bidhannagar College (Govt. of West Bengal). {From 31.01.13}
- Member of Board of Studies, West Bengal State University. (June 2013 to June 2016)
- **Officer-in-Charge, Bidhannagar College (Govt. of West Bengal). {From 31-10-13 onwards}**

Selection Committee:

- DPI Nominee for CAS (Barasat Govt. College & Nistarini College, Purulia University)

TEACHING EXPERIENCE

Teaching at under graduate level: 18 years {1998 – Till date}

Teaching at Post Graduate level: 16 years {1998 – 2002, 2004 -0 Till date}

RESEARCH EXPERIENCE:

- **M.Sc. research experiences (June 1983- May 1984):**
Fatty acids (saturated and unsaturated) were screened for antimicrobial activity against five test microbes (*E.coli*, *Mycobacterium flavum*, *Trichophyton mentagrophytes*, *T. tonsurans*, and *Candida albicans*)
- **Ph. D. research experiences (June 1984 – March 1989):**
Studied nutritional pattern and carbohydrate metabolism of some soil isolated nitrogen fixing bacterial strains.
Characterized some members of Azotobacteraceae based on protein and isoenzyme.
Studied pesticides effect on the growth and nitrogen fixation of *Azotobacter chroococcum*.
- **Post Doctoral research experiences: University of Wyoming, USA (April 1989 – April 1990)**
Isolated and identified bacteriocin producing strain.
Optimized bacteriocin production in small scale fermentor.
Purified bacteriocin for further work.
Identified bacteriocin producing gene in Plasmid.

RESEARCH PROJECTS:

Nature of work	Duration	Title of Project	Sanction letter no. & date	Status
UGC Minor research Project	2 years	Bio preservation of food	No. F PSW 30/90 (ERO)& 15.09.99	Completed
UGC Major Research Project	3 years	Studies on Ca ⁺² independent highly thermostable beta amylase from mesophilic bacterium <i>Bacillus</i> sp DJ ₅ .	F. No. 33-214/2007 SR & 06.03.2008	Completed (2008-2011)
W.B. State DST Research Project	3 years	Studies on agricultural applications of biopesticides in different combinations for the management of betel vine disease.	320(Sanc.)/ST/P/S&T/1G-7/2009 dt. – 02.09.2010	Completed (2010-2013)
MoFPI Major Research Project	2 Years	Production of functional dahi by isolated probiotic strain from breast fed human baby	88/MFPI/R&D/2012 dt. 04 Dec. 2015	On going (2016- till date)
WB DST	1 Year	Mother and child health	1023(Sanc)/EH/P/CG/4C-82/2015	On going (2016- till date)

PUBLICATIONS

Journals:

1. Jana S.C., Chakrabartty P.K. and Mishra A.K. Enzymatic differentiation of *Azotobacter* and *Azomonas*. *Curr. Sci.* 58,709, (1989).
2. Biswas S.R., Jana S.C., Mishra A.K. and Nanda G. Production, Purification and Characterization of Xylanase from a hyperxylanolytic mutant of *Aspergillus ochraceus*. *Biotech. Bioeng.* 35,244, (1990).
3. Jana S.C., Chakrabartty P.K. and Mishra A.K. Taxonomic relationship of some members of *Azotobacteraceae* based on their protein profile. *J. Basic. Microbiol.* 32,29, (1992).
4. Jana S.C. Isoenzyme profiles in *Azotobacteraceae*. *J. Basic. Microbiol.* 34,31, (1994).

5. Jana, S.C. and Mishra A.K. Factors affecting the growth and acetylene reduction of *Azotobacter chroococcum* B12. Indian J. Microbiol. 34, (1994).
6. Ray R.R., Jana S.C. and Nanda G. Saccharification of indigenous starches by beta-amylase of *Bacillus megaterium*. World J. Microbiol. 10, 691, (1994).
7. Ray R.R., Jana S.C. and Nanda G. Adsorption of beta-amylase from *Bacillus carotarum* B6 onto different native starches. Lett. Appl. Microbiol. 19, 454, (1994).
8. Ray R.R., Jana S.C. and Nanda G. Biochemical approaches of increasing the thermostability of beta-amylase of *Bacillus megaterium* B6. FEBS Letters. 356, 30, (1994).
9. Ray R.R., Jana S.C. and Nanda G. Beta-amylase from *Bacillus megaterium* B6. Folia Microbiologica. 39, 567, (1994).
10. Jana S.C. and Nanda G. Production of Xylanase by *Nocardia* sp. is isolated from soil. Bioved. 5, 167-170, (1994).
11. Ray R.R., Jana S.C. and Nanda G. Beta-amylase production by immobilized cell of *Bacillus megaterium* B6. J. Basic. Microbiol. 35, 113, (1995).
12. R.R. Ray, Jana, S.C. and G. Nanda. Immobilisation of beta-amylase from *Bacillus megaterium* B6 on gelatin by Crosslinking. J. Appl. Bacteriol. 79, 157, (1995).
13. Ray R.R., Jana S.C. and Nanda G. Optimization of physicochemical conditions of beta-amylase of *Bacillus megaterium* B6. Acta Microbiologica Polonica. 44, (1995).
14. Ray R.R., Jana S.C. and Nanda G. Induction and carbon catabolite repression in the biosynthesis of beta-amylase by *Bacillus megaterium* B6. Biochemistry and Molecular Biology International. 38, 223-30, (1996).
15. Prasad M., Jana S.C., Chaudhuri I and Chaudhuri R.K. Allozyme Diversity in West Bengal Rice Landraces. Acta Botanica Indica. 28, 119-123, (2000).
16. Poddar A., Gachhui R., Jana S.C. (2011) Cell immobilization of *Bacillus subtilis* DJ5 for production of novel hyperthermostable extracellular β amylase. Aust. J. Basic. Appl. Sci. 5, 456-464.
17. Poddar A., Jana S.C. (2011) Immobilization of hyperthermostable β amylase from *Bacillus subtilis* DJ5 into gelatin film by glutaraldehyde crosslinking. Int. J. Pharm Bio. Sci. 2, B77-B86.
18. Poddar A., Gachhui R., Jana S.C. (2011) Saccharification of native starches by hyperthermostable β amylase from *Bacillus subtilis* DJ5 and optimization of process condition for higher production of maltose. Int. J. Appl. Biotechnol. Biochem. 1, 221-230.
19. Poddar A., Ghara T.K, Jana S.C. (2012) Response surface methodological optimization of production condition of hyperthermostable β amylase from *Bacillus subtilis* DJ5 under solid state fermentation using barley as substrate. Int. J. Pharm Bio. Sci. 3, B9-B19.
20. Poddar A., Gachhui R., Jana S.C. (2012) Optimization of physico-chemical condition for improved production of hyperthermostable amylase from *Bacillus subtilis* DJ5. J Biochem Tech 3(4), 370-374.

21. Chatterjee M, Mandal M, Jana S. C. Isolation and identification of *Lactococcus lactis* JC10 from rotten papaya and characterization of its bacteriocin including its antimicrobial spectrum, *Wulfenia*, 19, 2013.
22. Poddar A., Jana S.C. (2013) Optimization of novel hyperthermostable β amylase production by *Bacillus subtilis* DJ5 using solid agroresidual substrates. *Int. J. Environ. Sci. Technol.* Doi: 10.1007/s13762-013-0275-3.
23. Poddar A., Ghara T.K, Jana S.C (2014) Critical process parameters optimization for hyperthermostable β amylase production by *Bacillus subtilis* DJ5 using response surface methodology. *Acta Sci Biol Sci.* 36(1):87-93. doi: 10.4025/actascibiolsoci.v36i1.17427.
24. Mandal M & Jana S C, Effect of bacteriocin from isolated *Lactococcus lactis* JC10 on *Xanthomonas campestris*, causal agent of bacterial leaf blight in Piper betle L. (Paan), *Annals of Plant Sciences*, Vol 2, No 08 (2013).
25. Malay Mandal and Subhas Chandra Jana. Antagonistic Effects of Bacteriocin and Bacteriocinogenic Lactobacillus on stem rot causing *Sclerotium rolfsii* in Betel. *International Journal of Bioassays* 4.11 (2015): 4454-4457.
26. Madhusree Chatterjee, Subhas Chandra Jana & Utpal Raychaudhuri, Isolation, purification and characterization of a bacteriocin with broad spectrum activity from *Lactococcus lactis* JC10 from perishable papaya, *Journal of microbiology, Biotechnology and Food Science.* 6(1):655-660.

Seminar Proceedings:

1. National symposium of Diversity of microbial resources and their potential applications (MicroSymp), Department of Botany, University of North Bengal.
2. MICON – International 94 and 35th Annual Conference of Association of Microbiologists of India, 1994.
3. 17th West Bengal State Science & Technology Congress, 2010.
4. 18th West Bengal State Science & Technology Congress, 2011.
5. 19th West Bengal State Science & Technology Congress, 2012.
6. UGC Seminar on Plant Science Research in Human Welfare, Bidhannagar College, 2012.
7. New Horizon in Biotechnology – DST sponsored National Seminar, 2013, Department of Biotechnology, Haldia Institute of Technology, Haldia.
8. 54th Annual Conference of Association of Microbiologists of India (AMI 2013)
9. National Conference on Emerging trends in Biotechnology, 2014, School of Environmental Science, Jawaharlal Nehru University, New Delhi.
10. Advance Biology through Technology & Computation, Department of Microbiology, West Bengal State University, 2014.
11. 2nd international Conference, Emerging Food Safety Risk: Challenge for Developing countries, 2014.
12. National Conference on NAMBCP, 2016, West Bengal State University.

**EVALUATIVE
REPORTS OF THE
DEPARTMENTS**



**Faculties
of
Science**

1. Department of Anthropology

1. Name of the Department	ANTHROPOLOGY
2. Year of establishment	2008 UG Honours
3. Names of Programmes/Courses offered (UG, PG, M. Phil, Ph. D, Integrated Masters, Integrated Ph. D etc.) Under Graduate (Honours)	
4. Name of Interdisciplinary courses and the departments /Units involved	Nil
5. Annual/ semester/ choice based credit system (programme wise) B. Sc. Anthropology Honours: Annual Examination [Part I, Part II and Part III]	
6. Participation of the department in the courses offered by other departments Nil	
7. Course in collaboration with other universities, industries, foreign institution, etc.	Nil
8. Details of programmes discontinued, if any, with reasons	Nil

9. Number of teaching posts sanctioned, filled and actual (professors/ Associate Professors/ Asst. Professors/ Others				
Academic Session	Faculty	Sanctioned	Filled	Actual (including CAS & MPS)
2014 – 2015	Professor			
	Associate Professor	7	4	1
	Assistant Professor			3
2013-2014	Professor			
	Associate Professor	7	1	
	Assistant Professor			3
2012-2013	Professor			
	Associate Professor	7	1	
	Assistant Professor			3
2011-2012	Professor			
	Associate Professor	4	1	
	Assistant Professor			3
2010 – 2011	Professor			
	Associate Professor	04	3	
	Assistant Professor			

** *Except the post of Professor, all the other posts are those of Assistant Professor, upgraded by Govt. Order due to CAS(Career Advancement Scheme).*

10. Faculty profile with name, qualification, designation, area of specialization, experience and research under guidance [Academic Session: 2014 – 2015]					
Name	Qualification	Designation	Area of Specialization	Years of experience	No. of Ph. D/ M. Phil. Students guided for the last 4 years
Dr. Bandana Chakraborty	M. Sc., PhD	Associate Professor (WBES)	Prehistoric Archaeology	23+	Nil
Dr. Sankha Priya Guha	M. Sc., PhD;	Assistant Professor (WBES)	Social Cultural Anthropology	10+	Nil
Dr. Sudesna Chanda	M. Sc., PhD	Assistant Professor (WBES)	Biological Anthropology	09+	Nil
Kausik Bhattacharya	M. Sc.	Assistant Professor (WBES)	Social Cultural Anthropology	08	Nil
Dr. Krishnendu Polley	M. Sc. PhD,	Assistant Professor (WBES)	Prehistoric Archaeology	07+	Nil
Kartick Chakraborty	M. Sc.,	Assistant Professor (WBES)	Social Cultural Anthropology	<1	Nil
Soumita Biswas	M. Sc.,	Assistant Professor (WBES)	Social Cultural Anthropology	<1	Nil

11. List of senior Visiting Faculty	Nil
12. Percentage of lectures delivered and practical classes handled (programme wise) by temporary faculty [2014 – 2015]	Nil

13. Student-Teacher ratio (programme wise)			
Academic Session	Total no of students	Total no of Teachers	Student-Teacher ratio
2014 – 2015	38	4	9:1
2013 – 2014	33	4	8:1
2012 – 2013	28	4	7:1
2011 – 2012	25	4	6:1
2010 – 2011	15	3	5:1

14. Number of academic support staff (technical) and administrative staff, [sanctioned and filled]					
Sanctioned	Filled	Actual	Name of the Employee	Designation	Category
nil	nil	nil			

15. Qualification of Teaching Faculty with D. Sc./ D. Litt./ Ph. D/ M. Phil./ PG	
Highest Qualification	No. of Teaching Faculty [present status]
D. Sc. / D. Litt.	Nil
Ph. D	4
M. Phil	Nil
PG	3

16. Number of faculty with ongoing projects from a) National b) International funding agencies and grants received	
a) National	1 (one)
b) International funding agencies	Nil
Total grants received	Nil

17. Departmental projects funded by DST-FIST, UGC, DBT, ICSSR etc. and total grants received [2010 – 2015]			
A] Ongoing Projects			
Project Title	Principal Investigator	Funding Agency	Grants Received (₹)
A Comparative study on Health and Nutritional status among the tribal and Non-tribal working women of North Bengal	Dr Sudesna Chanda	UGC- Minor Research Project	250000

B] Completed Projects			
Project Title	Principal Investigator	Funding Agency	Grants Received (₹)
Variation of primate hair histological variables	Dr Sudesna Chanda	UGC	45,000
Anthropology of urbanization; the rural-urban interphase in apartment houses in Kolkata city.	Dr. Sankha Priya Guha	UGC	Rs. 1,37,000/-
18. Research Centre/ facility recognized by the University			NA

19. Publications [2010 – 2015] [Detailed list of publication are in Annexure- I]											
Total no. of Publication										14	
National Journals										05	
International journals										02	
Conference Proceedings Paper										01	
Books with ISBN/ ISSN										02	
Faculty	No. of papers published in peer reviewed journals (National and international)	No. of publication listed in International Database	Monographs	Chapter in Books	Books edited	Books with ISBN/ ISBN	Citation Index	SNIP	SJR	Impact factor	h-index
Dr. Sankha Priya Guha	2	0	0	1	1	1	0	0	0	0	0
Kausik Bhattacharya	0	0	0	1	0	0	0	0	0	0	0
Dr. Sudesna Chanda	1	0	0	0	0	0	0	0	0	0	0
Dr. Krishnendu Polley	4	0	0	2	0	0	0	0	0	0	0
Kartick Chakraborty	1	0	0	0	0	0	0	0	0	0	0

20. Areas of consultancy and income generated	Nil
21. Faculty as members in	
National Committees	02
International Committees	
Editorial Board	

Faculty	Committee
Dr. Sankha Priya Guha	Member of UG board of studies in West Bengal State University [2010 – 2011]
	Life member of Indian Anthropological society.
	Life member of Siksha Niketan, Bardhaman: (an educational NGO for rural children) - Extension activities.
Dr. Sudeshna Chanda	Member of Indian Science Congress association (2004- 2009).
	Member of Indian Anthropological society.
22. Student projects	
Percentage of students who have done in-house projects including inter departmental/ programme	NA
Percentage of students placed for projects in organizations outside the institution i.e., research laboratories/ Industry/ other agencies	NA

23. Awards/ Recognition received by Faculty and Students	
Faculty	
Dr Bandana Chakrabarti	Gold medal award handed over by Calcutta University in 2010-2011 for being first in M.Sc. in Anthropology in 1987 (Result published in 1989).
Kaushik Bhattacharya	Selected and registered in Ph.D. programme in West Bengal State university (2013 -2014).
Students	
Swetketu Bannerjee	President medal award as a sitar player, 2012 – 2013
Bithi Roy	Selected in P.C Chandra young diva hunt, a beauty competition in 2012.
Priyanka Ghosh	Ph.D. Scholar in Tata institute of social Science, Mumbai, 2013.

24. List of eminent Academicians and Scientist / Visitors to the department	Nil
25. Seminars/ Conferences/ Workshops organized & the source of funding	
National	Nil
International	Nil

26. Student profile programme/ course wise					
Name of the course/ programme	Application Received	Selected	Enrolled		Pass percentage
			Male	Female	
2014 – 2015	145	15	1	14	100
2013 – 2014	144	12	04	08	100
2012 – 2013	151	15	03	12	100
2011 – 2012	80	11	02	09	100
2010 -- 2011	80	9	06	03	100

27. Diversity of Students			
Name of the Course [Anthropology Honours]	% of students from the same State	% of students from the other States	% of students abroad
2014 – 2015	92.85	7.15	NIL
2013 – 2014	100	NIL	NIL
2012 – 2013	100	NIL	NIL
2011 – 2012	87.5	12.5	NIL
2010 - 2011	100	NIL	NIL

28. How many students have cleared National and state competitive examinations such as NET, SLET, GATE, Civil Service, Defence Service etc.	Not applicable since the Department only provide UG degree
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29. Student progression	Percentage against enrolled in Academic Session				
	2014 - 2015	2013-2014	2012-2013	2011-2012	2010 – 2011
UG to PG	0 (0%)	5 (62.5%)	5 (100%)	0	0
PG to M.Phil.	NA	NA	NA	NA	NA
PG to Ph.D	NA	NA	NA	NA	NA
Ph.D. to Post-Doctoral	NA	NA	NA	NA	NA
Employed	0	0	0	0	1
• Campus selection	Nil	Nil	Nil	Nil	Nil
• Other than campus recruitment	Nil	Nil	Nil	Nil	Nil
Entrepreneurship/ Self-employed	Nil	Nil	Nil	Nil	Nil

Name of the Service	No. of students selected [2010 – 2015]
Central Government Service	Nil
State Government Service	Nil
School Service Commission	Nil
Bank and related service	Nil
Railway Service	Nil
Insurance Service	Nil
Private sector	1

30. Details of Infrastructural facilities	
Library	The department has a well-stocked Seminar Library with ----- books. Students are allowed to borrow books fortnightly
Internet facilities for Staff & Students	Departmental internet facility
Class room with ICT facility	One UGC-sponsored SMART class room, equipped with LCD projector, PEN display and Sound system
Laboratories	One laboratory cum theory class rooms
Instrumentation facility	Department is equipped with a number of instruments for students routine practical class as well as research study. Some of the important instruments are presented below: Instruments: Martin's Sliding Caliper, Martin's Spreading Caliper, Martin's Anthropometer, Osteometric Board, Ishihara Colour blindness chart, Paleoanthropological casts, Lithic tools and casts, Tubular & cubic, Craniophore, Horizontal Needle.

31. Number of students receiving financial assistance from College, University, Government or other agencies [Anthropology Honours]					
Session	Type of financial assistance		No. of students receiving financial assistance		
	Govt	Pvt	Total	Male	Female
2014 – 2015	Merit cum- Means, Inspire, Kanyasree etc [S.R.Jindal	7	0	7
2013 – 2014	Merit cum- Means, Inspire, Kanyasree etc	S.R.Jindal	8	2	6
2012 – 2013	Merit cum- Means, Inspire, etc	S.R.Jindal	7	1	6
2011 – 2012	Merit cum- Means, Inspire, etc	S.R.Jindal	6	0	6
2010 – 2011	Merit cum- Means, Inspire, etc	S.R.Jindal	3	3	0

32. Details of students enrichment programmes (special lecture/ workshops/ seminar) with external experts				
Programme	Year	Title	Funding agency	External Experts / Resource Persons
Invited Lecture	03.02.2016	Human Evolution: Indian Evidences in Global Perspective	Bidhannagar College	Dr. A. R. Sankhayan Visiting Fellow and Former Senior Anthropologist, Anthropological Survey of India

33. Teaching methods adopted to improve student's learning
Power-point based lectures through LCD projector Assessment in the form of class test, half-yearly, annual and test examination Field survey in different Socio-cultural region

Year	Date of Excursion	Place of Excursion
2015	16.11.2015-1.12.2015	Paren and adjacent areas, Jalpaiguri, West Bengal
	14.12.2015	Paleoanthropology Laboratory and Museum, Anthropological Survey of India, Kolkata.
2014	28.10.2014-13.11.2014	Sillarigaon and adjoining areas, Darjeeling, West Bengal
	11.11.2014-12.11.2014	Geomorphological Study on the Murti river bank, Sillarigaon, Darjeeling, West Bengal.
2013	19.11.2013-03.12.2013	Shikshaniketan, Bardhaman district, West Bengal
	06.02.2014	Asutosh Museum, University of Calcutta
2012	31.08.2012-13.09.2012	Lataguri, Jalpaiguri district, West Bengal
	13.02.2012 & 22.02.2012	Ethnographic and Prehistory Museum, Department of Anthropology, University of Calcutta.
2011	29.10.2011-14.11.2011	Pallahara, Angul district, Orissa
	13.09.2011 & 22.09.2011	Asutosh Museum, University of Calcutta.

34. Participation in Institutional Social Responsibility [ISR] and Extension activities	
In different activities of NSS	
35. SWOC analysis of the department and Future Plans	
Strength	<ul style="list-style-type: none"> • The faculty strength of the department has a good combination of specialized teachers coming from all the three specialized area of Anthropology. It reflects a proper combination of senior experienced teachers with fresh energetic fellow and maintains a healthy and balanced professional ambiance in the department. • The head of the department, Dr Bandana Chakrabarti has a strong administrative background as she has served the Higher education directorate of West Bengal as a joint director of public instruction for valuable 10 years (July 2001 – Feb 2011) of her career. • Teachers of this department constantly engage themselves in different research activities in order to update their academic profile. They are always accessible to the students for any kind of academic or mental support they need. • Since Anthropology is a field based subject. Field work for more than two weeks every year provides that space and leads towards the teacher student bonding of this department. This helps to continue the academic flow among the students more smoothly.
Weakness	<ul style="list-style-type: none"> • Limited space in the Department to cater the educational needs of the students and teachers. • In spite of a fully fledged practical and field-work based department, the department does not have any specialized laboratory with non-teaching/ technical staff. • No proper formal career counselling cell exists in the department. • Limited opportunity to carry out extension activities for busy academic schedule of the department.
Opportunities	<ul style="list-style-type: none"> • As a newly established department in the College, opportunity of the department lies in its gradual expansion of academic infrastructure like initiation of Post Graduation course, establishment of Anthropological museum etc. • The opportunity of the department lies in creating exposure for the students to different avenues of higher education and employment.
Challenges	<ul style="list-style-type: none"> • The department is still under process, throwing new challenges everyday in every academic and professional aspect. • With limited resource and space the department is facing immense challenges to run the three year's academic session specially the practical curriculum. • Since the department is lacking any non teaching staff both academic and administrative load of this department is a strong challenge for the faculty members.
Future Plans	<ul style="list-style-type: none"> • Initiation of Post graduation with proper infrastructure. • Career counselling for the students • Involving in other extensional activities.

2. Department of Botany

1. Name of the Department	BOTANY
2. Year of establishment	1997 UG General 2002 UG Honour
3. Names of Programmes/Coerces offered (UG, PG, M. Phil, Ph. D, Integrated Masters, Integrated Ph. D etc.) Under Graduate (Honours) and Under Graduate (General)	
4. Name of Interdisciplinary courses and the departments /Units involved	Nil
5. Annual/ semester/ choice based credit system (programme wise) B. Sc. Botany Honours: Annual Examination [Part I, Part II and Part III] B. Sc. Botany General: Annual Examination [Part I and Part II]	
6. Participation of the department in the courses offered by other departments Botany is offered as a General Subject for Zoology (Hons.), Anthropology (Hons.) and Microbiology (Hons.) students	
7. Course in collaboration with other universities, industries, foreign institution, etc.	Nil
8. Details of programmes discontinued, if any, with reasons	Nil

9. Number of teaching posts sanctioned, filled and actual (professors/ Associate Professors/ Asst. Professors/ Others)				
Academic Session	Faculty	Sanctioned	Filled	Actual (including CAS & MPS)
2015-2016	Professor	-	-	Nil
	Associate Professor	08	7	2*
	Assistant Professor			5
2014 – 2015	Professor	-	-	Nil
	Associate Professor	08	6	2*
	Assistant Professor			4
2013-2014	Professor	-	-	Nil
	Associate Professor	08	6	3*
	Assistant Professor			3
2012-2013	Professor	-	-	Nil
	Associate Professor	08	6	3*
	Assistant Professor			3
2011-2012	Professor	-	-	Nil
	Associate Professor	08	6	3*
	Assistant Professor			3
2010 – 2011	Professor	-	-	Nil
	Associate Professor	08	6	3*
	Assistant Professor			3

* *Except the post of Professor, all the other posts are those of Assistant Professor, upgraded by Govt. Order due to CAS.

10. Faculty profile with name, qualification, designation, area of specialization, experience and research under guidance [Academic Session: 2014 – 2015]					
Name	Qualification	Designation	Area of Specialization	Years of experience	No. of Ph. D/ M. Phil. Students guided for the last 4 years
Dr. Shyamal Kumar Chakraborty	M. Sc., Ph. D	Associate Professor (WBES)	Cytogenetics	31	Nil
Dr. Sumona Mukherjee	M. Sc., Ph. D;	Associate Professor (WBES)	Cytogenetics	23	Nil
Dr. Santanu Saha	M. Sc., Ph. D;	Associate Professor (WBES)	Ecology	22	Nil
Dr. Kajari Lahiri	M. Sc., Ph. D	Assistant Professor (WBES)	Plant Physiology & Biochemistry	13	Nil
Dr. Mousumi Mukhopadhyay	M. Sc., Ph. D	Assistant Professor (WBES)	Taxonomy of Angiosperm	9	Nil
Dr. Kausik Majumder	M. Sc., Ph. D	Assistant Professor (WBES)	Biochemistry & Microbial Biotechnology	8	Nil
Dr. Subhadipa Sengupta	M. Sc., Ph. D	Assistant Professor (WBES)	Cell Biology, Molecular Genetics & Plant Tissue Culture	5	Nil

11. List of senior Visiting Faculty	Nil
12. Percentage of lectures delivered and practical classes handled (programme wise) by temporary faculty	Nil

13. Student-Teacher ratio (programme wise)			
Academic Session	Total no of students	Total no of Teachers	Student-Teacher ratio
2014 – 2015	52	6	9:1
2013 – 2014	43	6	7:1
2012 – 2013	29	6	5:1
2011 – 2012	19	6	3:1
2010 – 2011	18	6	3:1

14. Number of academic support staff (technical) and administrative staff, [sanctioned and filled]					
Sanctioned	Filled	Actual	Name of the Employee	Designation	Category
2	2	2	Sri Alok Kumar Biswas	Lab Attendant	Group- D
			Sri Nabendu Das	Specimen Collector	Group- D

15. Qualification of Teaching Faculty with D. Sc./ D. Litt./ Ph. D/ M. Phil./ PG	
Highest Qualification	No. of Teaching Faculty [present status]
D. Sc./ D. Litt.	Nil
Ph. D	07
M. Phil	Nil
PG	Nil

16. Number of faculty with ongoing projects from a) National b) International funding agencies and grants received	
a) National	2 (two)
b) International funding agencies	Nil
Total grants received	Rs. 3,25,000/-

17. Departmental projects funded by DST-FIST, UGC, DBT, ICSSR etc. and total grants received [2010 – 2015]			
A] Ongoing Projects			
Project Title	Principal Investigator	Funding Agency	Grants Received (₹)
Systematic study on the flora of bricks and rock constructions of Krishnanagar city (Nadia, West Bengal, India) and adjoining areas	Dr. Mousumi Mukhopadhyay	UGC- Minor Research Project	70,000
Community analysis of plant growth promoting endophytic microbial flora in different rice cultivars of West Bengal	Dr. Subhadipa Sengupta	UGC- Minor Research Project	2,55,000/-

B] Completed Projects			
Project Title	Principal Investigator	Funding Agency	Grants Received (₹)
A biotechnological approach towards qualitative up-gradation of Himalayan hand-made paper	Dr. Kausik Majumder	UGC- Minor Research Project	Rs. 1,31,000/-
Composition, Diversity & Biomass Estimation of Mangrove Vegetation and Soil – Water Analyses of Newly Formed Lands in Parts of Sundarban Delta	Dr. Santanu Saha	UGC- Minor Research Project	Rs. 1,75 500/

18. Research Centre/ facility recognized by the University	NA
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19. Publications [2010 – 2015]											
[Detailed list of publication are in Annexure- I]											
Total no. of Publication											25
National Journals											3
International journals											8
Conference Proceedings Paper											9
Books with ISBN/ ISSN											Nil
Faculty	No. of papers published in peer reviewed journals (National and international)	No. of publication listed in International Database	Monographs	Chapter in Books	Books edited	Books with ISBN/ ISBN	Citation Index	SNIP	SJR	Impact factor	h-index
Dr. Shyamal Kumar Chakraborty	-	-	-	-	-	-	-	-	-	-	-
Dr. Sumona Mukherjee	4	4	-	1	-	-	-	-	-	2.887	-
Dr. Santanu Saha	-	-	-	2	-	-	-	-	-	-	-
Dr. Mousumi Mukhopadhyay	1	1	-	1	-	-	-	-	-	-	-
Dr. Kausik Majumder	3	3	-	1	-	-	-	-	-	2.5	-
Dr. Subhadipa Sengupta	2	2	-	-	-	-	-	-	-	6.39	-
Dr. Dwaipayan Sinha	1	1	-	-	-	-	-	-	-	-	-

Faculty	Committee
Dr. Shyamal Kumar Chakraborty	Life member of Indian Science Congress Association
	Life member of Indian Mycological Society
	Life member & Executive Council Member of Botanical Society of Bengal
	Life member of Alumnae Society of Botany Department of Calcutta University
	Life member of Alumnae Society of Presidency College, Kolkata
	Member, All India Federation of University & College Teachers Organisation
	Member of World Federation of Teachers
	Member UG Board of Studies of Botany- Calcutta University, 2006-2009
	Member of PG Board of Studies of Botany- Barasat Govt College 2011-2014
Dr. Sumona Mukherjee	Life member of Indian Botanical Society
	Life member of Indian Science Congress Association
	Life member & Member of Executive Committee of Probir Chatterjee Memorial Foundation Research for Cryptogamic Botany
	Life member of Central Calcutta Society for Human Welfare, Research & Development
	Chairperson UG Board of Studies of Botany- Part-I, II & III, Calcutta University, 2010-2011, 2011-2012 & 2012-2013 respectively
	Chairperson UG Board of Studies of Botany- Part-I, II & III, Calcutta University, 2010-2011, 2011-2012 & 2012-2013 respectively
	Member of Board of Judges of Jagadish Bose National Science Talent Search since 2002
	Reviewer of Peer Journals : Nucleus (Springer), 2013; Journal of Medicinal Plant Research, 2015, African Journal of Microbiology Research (AJMR)- 2015
	Member of the Editorial Board: In the Footsteps of Chandramukhi, 125 years of Bethune College, 2004
	Member of the Editorial Board: Women's Education & Politics of Gender, 125 years of Bethune College, 2004
	Chief editor of the Editorial Board of <i>Intelligensia</i> 2015
	Life member of Alumnae Society of Botany Department of Calcutta University
	Life member of Alumnae Society of Presidency College, Kolkata
Life member & Member of Executive Committee of Somsar Sri Ramakrishna Seva Mandir	
Dr. Santanu Saha	Life member of Indian Science Congress Association
	Reviewer- Open Journal of Ecology, 2013
Dr. Mousumi Mukhopadhyay	Life member of Indian Association of Angiosperm Taxonomy
	Life member of Botanical Society of Bengal
	Life member of Taxo Club
Dr. Kausik Majumder	Seasonal member of Indian Science Congress Association
	Reviewer- Applied Microbiology & Biochemistry [Elsevier], 2011
	Reviewer- Scientia Horticulturae [Elsevier], 2015
Dr. Kajari Lahiri	Life member of Central Calcutta Society for Human Welfare, Research & Development
	Life member of Plant Physiology Forum
	Life Member of Oncolink
Dr. Subhadipa Sengupta	Life member of Indian Science Congress Association

20. Areas of consultancy and income generated	Nil
21. Faculty as members in	
National Committees	7
International Committees	0
Editorial Board	1

22. Student projects	NA
Percentage of students who have done in-house projects including inter departmental/ programme	NA
Percentage of students placed for projects in organizations outside the institution i.e., research laboratories/ Industry/ other agencies	NA

23. Awards/ Recognition received by Faculty and Students	
Faculty	
Dr. Sumona Mukherjee	Certificate of Merit & Cash Prize for the Best Paper presented at the All India Botanical Society in 1985 M.S. Swaminathan Award for the Best Merit Paper published in the Journal of the Indian Botanical Society in 1986 ISCA Young Scientist Award at the Indian Science Congress in 1986 Elected unanimously Fellow of the Indian Botanical Society (FBS) for contributions in Plant Cytogenetics & Cytochemistry in 1990-91
Dr. Dwaipayan Sinha	Ph.D in 2015
Dr. Subhadipa Sengupta	Ph.D in 2010

24. List of eminent Academicians and Scientist/ Visitors to the department	Nil
25. Seminars/ Conferences/ Workshops organized & the source of funding	
National funded by UGC in collaboration with BSI	1
International	Nil

Seminar Topic	Level	Funding Agency	Date	Collaboration
Plant Science Research in Human Welfare	National	UGC	11 th January to 12 th January, 2012	Botanical Society of India, Govt. of India

26. Student profile programme/ course wise					
Name of the course/ programme [Botany Honours]	Application received	Selected	Enrolled		Pass percentage
			Male	Female	
2014 – 2015	284	20	10	10	100
2013 – 2014	175	21	11	10	100
2012 – 2013	175	22	10	12	100
2011 – 2012	164	6	03	03	100
2010 - 2011	154	13	06	07	100

27. Diversity of Students			
Name of the Course [Botany Honours]	% of students from the same State	% of students from the other States	% of students abroad
2014 – 2015	100	0	0
2013 – 2014	100	0	0
2012 – 2013	100	0	0
2011 – 2012	100	0	0
2010 - 2011	100	0	0

28. How many students have cleared National and state competitive examinations such as NET, SLET, GATE, Civil Service, Defence Service etc.	Not applicable since the Department only provide UG degree
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29. Student progression	Percentage against enrolled in Academic Session				
	2014 - 2015	2013-2014	2012-2013	2011-2012	2010 – 2011
UG to PG	80%	Data Unavailable	Data Unavailable	Data Unavailable	Data Unavailable
PG to M.Phil.	NA	NA	NA	NA	NA
PG to Ph.D	NA	NA	NA	NA	NA
Ph.D. to Post-Doctoral	NA	NA	NA	NA	NA
Employed	Data Unavailable	Data Unavailable	Data Unavailable	Data Unavailable	Data Unavailable
• Campus selection	NIL	NIL	NIL	NIL	NIL
• Other than campus recruitment	Data Unavailable	Data Unavailable	Data Unavailable	Data Unavailable	Data Unavailable
Entrepreneurship/ Self- employed	Data Unavailable	Data Unavailable	Data Unavailable	Data Unavailable	Data Unavailable

Name of the Service	No. of students selected [2010 – 2015]
Central Government Service	Data Unavailable
State Government Service	Data Unavailable
School Service Commission	Data Unavailable
Bank and related service	Data Unavailable
Railway Service	Data Unavailable
Insurance Service	Data Unavailable
Private sector	Data Unavailable

30. Details of Infrastructural facilities	
Library	The department has a well-stocked Seminar Library with 500 books. Students are allowed to borrow books fortnightly
Internet facilities for Staff & Students	HOD room and Staff room are LAN connected with internet facilities. Facilities are also provided to students as and when required.
Class room with ICT facility	Two theory class rooms One UGC-sponsored SMART class room, equipped with LCD projector, PEN display and Sound system
Laboratories	Two laboratories cum theory class rooms One General Laboratory
Experimental garden	Medicinal Garden “Parasar” maintained by the department
Instrumentation facility	Department is equipped with a number of instruments for students routine practical class as well as research study. Some of the important instruments are presented below DNA and Protein Gel Electrophoresis Unit Camera fitted Microscope Laminar air flow

31. Number of students receiving financial assistance from College, University, Government or other agencies

Session	Type of financial assistance		No. of students receiving financial assistance		
	Govt	Pvt	Total	Male	Female
2014 – 2015	Merit cum-Means, SC-ST Post Matric, Kanyasree etc	S.R.Jindal	8	3	5
2013 – 2014	Merit cum-Means, SC-ST Post Matric, Kanyasree etc	S.R.Jindal	16	9	7
2012 – 2013	Merit cum-Means, SC-ST Post Matric,	S.R.Jindal	12	5	7
2011 – 2012	Merit cum-Means, , etc	S.R.Jindal	2	1	1
2010 – 2011	Merit cum-Means, SC-ST Post Matric, etc	S.R.Jindal	6	3	3

32. Details of students enrichment programmes (special lecture/ workshops/ seminar) with external experts				
Programme	Year	Title	Funding agency	External Experts / Resource Persons
Invited Lecture	2016	Scope of palaeobotany & Palynology	BNC	Dr. AshalataD Rozario, N.D.College Howrah
To Observe National Sciercer Day	2016	Relevance and Prospects of Plant Biology	Dept of Botany	Prof. Animesh Kumar Datta Kalyani University
33. Teaching methods adopted to improve students learning				
Power-point based lectures through LCD projector Assessment in the form of class test, half-yearly, annual and test examination Field survey in different phyto-geographic region				
Year	Date of Excursion	Place of Excursion		
2015	26 th March	AJCB Indian National Botanic Garden, Shibpur, WB		
	16 th Nov to 21 st Nov	Sillarigaon and adjoining arears, Darjeeling, WB		
2014	21 st March	AJCB Indian National Botanic Garden, Shibpur, WB		
	25 th March	Mushroom Cultivation Centre & Medicinal Garden, RKM, WB		
	9 th Dec	Garhchomuk, Howrah, WB		
	19 th Dec to 21 st Dec	Sundarban Reserve forest, 24 PGN(S), WB		
2013	8 th April	AJCB Indian National Botanic Garden, Shibpur, WB		
	4 th Sept	AJCB Indian National Botanic Garden, Shibpur, WB		
	25 th Dec to 30 th Dec	Nainital and adjoining areas, Uttarakhand		
2012	18 th April	AJCB Indian National Botanic Garden, Shibpur, WB		
	27 th Nov to 3 rd Dec	Darjeeling, WB		
2011	6 th Sept to 8 th Sept	Digha, WB		
2010	8 th Nov to 17 th Nov	Harshil and Garhwal Himalayas, Uttarakhand		

34. Participation in Institutional Social Responsibility [ISR] and Extension activities
<ul style="list-style-type: none"> • In different activities of NSS • Medicinal Garden “Parasar” maintained by the department • Nature Club of the College “Prakriti Porichoy” under the aegis of WWF coordinated by one of the faculty • Students actively participate in all departmental and college activities with keen interest in Botany, Nature and Environment

35. SWOC analysis of the department and Future Plans	
Strength	<ul style="list-style-type: none"> ● Teaching and learning is of excellent standard ● Teachers highly qualified, with 60% of them holding Ph.D. degree ● 60% Teachers with postgraduate teaching experience ● 60% Teachers actively engaged in research ● Teachers very responsible and efficient in administrative work, heading several important committees of the college ● Computers and Internet facility available ● Smart class room dedicated for Honours student ● Well equipped laboratory with basic and sophisticated instruments ● Well stocked Seminar Library and Book Bank ● Medicinal Garden “Parasar” maintained by the department ● Nature Club of the college “Prakriti Porichoy” under the aegis of WWF coordinated by one of the faculty ● Students actively participate in all departmental and college activities with keen interest in Botany, Nature and Environment
Weakness	<ul style="list-style-type: none"> ● Shortage of class rooms and laboratories ● Inadequate Non Teaching Staff, both Group C and D ● Student –Teacher Ratio unsatisfactory
Opportunities	<ul style="list-style-type: none"> ● Minor and Major Research Projects in different areas of interest ● Encouragement and counselling of students for higher education and research ● Guidance of students for UGC-CSIR-NET
Challenges	<ul style="list-style-type: none"> ● Despite the lack of academic autonomy to create deep interest in the subject through innovative teaching in the class room and in the field ● Accommodate and evaluate the potentiality of annual increase in student strength
Future Plans	<ul style="list-style-type: none"> ● Increasing space for smart class rooms, laboratory, herbarium, museum and library ● Enhancing the number of research projects and collaboration with other departments and Institutes ● Increasing remedial and tutorials for weak students ● Upgrading the UG department to Postgraduate programme offering specialization in Cytogenetics, Molecular Biology, Plant Systematics, Plant Physiology and Biochemistry

3. Department of Chemistry

1. Name of the Department	CHEMISTRY
2. Year of establishment	UG Honours- 1985 PG- 2013
3. Names of Programmes/Coerces offered (UG, PG, M. Phil, Ph. D, Integrated Masters, Integrated Ph. D etc.)	Under Graduate (Honours), Under Graduate (General) and Post Graduate
4. Name of Interdisciplinary courses and the departments /Units involved	Nil
5. Annual/ semester/ choice based credit system (programme wise)	B. Sc. Chemistry Honours: Annual Examination [Part I, Part II and Part III] M. Sc in Chemistry: Semester-I, II, III, and IV [each semester of 6 months duration]
6. Participation of the department in the courses offered by other departments	Chemistry offers as a General course for the Honours students of Anthropology, Botany, Microbiology, Mathematics, Physics and Zoology Faculty members of Physics and Mathematics used to teach some Topics for the PG, Chemistry students (Mathematics in Chemistry and Quantum Mechanics)
7. Course in collaboration with other universities, industries, foreign institution, etc.	Nil
8. Details of programmes discontinued, if any, with reasons	Nil

9. Number of teaching posts sanctioned, filled and actual (professors/ Associate Professors/ Asst. Professors/ Others				
Academic Session	Faculty	Sanctioned	Filled	Actual (including CAS & MPS)
2014 – 2015	Professor	01	01	01
	Associate Professor	14	6	
	Assistant Professor		2	
2013-2014	Professor	01		
	Associate Professor	14	5	
	Assistant Professor		2	
2012-2013	Professor	01		
	Associate Professor	08		
	Assistant Professor		1	
2011-2012	Professor	01		
	Associate Professor	08	8	
	Assistant Professor		1	
2010 – 2011	Professor	01		
	Associate Professor	08	8	
	Assistant Professor		1	

* *Except the post of Professor, all the other posts are those of Assistant Professor, upgraded by Govt. Order due to CAS.

10. Faculty profile with name, qualification, designation, area of specialization, experience and research under guidance [Academic Session: 2014 – 2015]					
Name	Qualification	Designation	Area of Specialization	Years of experience	No. of Ph. D/ M. Phil. Students guided for the last 4 years
Achintya Kumar Sarkar	M.Sc., Ph.D.	Professor (HOD)	Organic Chemistry	30	2
Nikhil Ranjan Pramanik	M.Sc., Ph.D	Asso. Prof.	Physical Chemistry	28	-
Sucheta Singha (Chandra)	M.Sc.,Ph.D	Asso. Prof.	Organic Chemistry	23	-
GoutamKumar Mondal	M.Sc., Ph.D.	Asso. Prof.	Inorganic Chemistry	23	-
Narayan Chandra Bar	M.Sc., Ph.D.	Asso. Prof.	Organic Chemistry	17	-
Asim Kumar Majee	M.Sc., Ph.D.	Asso. Prof.	Inorganic	5	-
Subhas Chandra Maity	M.Sc.Ph.D	Asstt. Prof.	Organic Chemistry	9	-
Kaushik Maji	M.Sc., Ph.D.	Asstt. Prof.	Physical Chemistry	7	-
Anisur Rahaman Molla	M.Sc., Ph.D.	Asstt. Prof.	Organic Chemistry	6	-
Arabinda Mandal	M.Sc.	Asstt. Prof.	Inorganic Chemistry	6	-
Shubhankar Samanta	M.Sc., Ph.D.	Asstt. Prof.	Organic Chemistry	5	-
Susanta Kumar Manna	M.Sc.	Asstt. Prof.	Organic Chemistry	5	-
Tirtha Pada Majhi	M.Sc., Ph.D.	Asstt. Prof.	Organic Chemistry	5	-
Rituparna Biswas	M.Sc., Ph.D.	Asstt. Prof.	Inorganic Chemistry	7 Month	-
Arup Kumar Adak	M.Sc.	Asstt. Prof	Inorganic Chemistry	14	
Shaishab Kumar Dinda	M.Sc., Ph.D.	Asstt. Prof	Organic Chemistry	7	
Murari Priya Roy	M.Sc., Ph.D.	Part Time Faculty	Inorganic Chemistry		

11. List of Senior Visiting Faculty

Name	Qualification	Designation	Specialisation	Last served at / Serving at
Prof Dulal. Ch. Mukherjee	M.Sc, Ph.D.	Retd. UGC Chair Professor	Physical Chemistry	Calcutta University
Prof. Gurunath Mukherjee	M.Sc, Ph.D.	Retd. Rashbehari Ghosh Chair Professor	Inorganic Chemistry	Calcutta University
Prof. Ramsundar Banerjee	M.Sc, Ph.D.	Retd. Professor	Physical Chemistry	Calcutta University
Prof. Sanjeeb Bagchi	M.Sc, Ph.D.	Retd. Professor	Physical Chemistry	Burdwan University
Prof. Dipak Kr. Mondal	M.Sc, Ph.D.	Retd. Professor	Organic Chemistry	Bidhannagar College
Dr Ramaprosad Chakravarti	M.Sc, Ph.D.	Retd. Asso. Professor	Organic Chemistry	Bidhannagar College
Dr Tapas Roy Chowdhury	M.Sc, Ph.D.	Retd. Asso. Professor	Inorganic Chemistry	Charu Chandra College
Dr Gautam Chatterjee	M.Sc, Ph.D.	Retd. Asso. Professor	Organic Chemistry	Presidency College
Prof Sudhangsu Sekhar Mondal	M.Sc, Ph.D.	Retd. Professor	Organic Chemistry	Calcutta University
Sri Sanjib Ghosh	M. Sc.	Retd. Asso. Professor	Industrial Chemistry	Bidhannagar College
Sri Bijan Kumar Pakhira	M. Tech.	Retd. Asso. Professor	Industrial Chemistry	Bidhannagar College
Dr. Narayan Charkaborty	M.Sc, Ph.D.	Former Reader	Organic Chemistry	Maulana Azad College
Dr S. K. Saha Honorary Guest Faculty	M.Sc, Ph.D.	Asso. Prof.	Physical Chemistry	Honorary; Barasat Govt. College
Dr S. Basu Honorary Guest Faculty	M.Sc, Ph.D.	Asso. Prof.	Physical Chemistry	Honorary; SINP
Dr Subrata Saha Honorary Guest Faculty	M.Sc, Ph.D.	Retd. Asso. Prof.	Physical Chemistry	Honorary; Hooghly Mohsin Govt. College

12. Percentage of lectures delivered and practical classes handled (programme wise) by temporary faculty [2014 – 2015]	UG-11 PG-31
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13A. Student-Teacher ratio- Undergraduate (programme wise)			
Academic Session	Total no of students	Total no of Teachers	Student-Teacher ratio
2014 – 2015	51	25	2:1
2013 – 2014	46	15	2:1
2012 – 2013	53	8	7:1
2011 – 2012	55	8	7:1
2010 – 2011	41	8	5:1

13B. Student-Teacher ratio Post Graduate (programme wise)			
Academic Session	Total no of students	Total no of Teachers	Student-Teacher ratio
2014 – 2015	60	25	2:1
2013 – 2014	30	15	2:1
2012 – 2013	-	-	-
2011 – 2012	-	-	-
2010 – 2011	-	-	-

14. Number of academic support staff (technical) and administrative staff, [sanctioned and filled]					
Sanctioned	Filled	Actual	Name of the Employee	Designation	Category
Nil	Nil	Nil			

15. Qualification of Teaching Faculty with D. Sc./ D. Litt./ Ph. D./ M. Phil./ PG	
Highest Qualification	No. of Teaching Faculty [present status]
D. Sc. / D. Litt.	Nil
Ph. D	14
M. Phil	Nil
PG	3

16. Number of faculty with ongoing projects from a) National b) International funding agencies and grants received	
a) National	1 (One) Dr. Shubhankar Samanta DST Fast Track project (SB/FT/CS-189/2012 dt 30/06/2014 with diary no-SERB/2347/dated 29.06.2014)
b) International funding agencies	Nil
Total grants received	Rs. 1778836.00/-

17. Departmental projects funded by DST-FIST, UGC, DBT, ICSSR etc. and total grants received [2010 – 2015]			
A] Ongoing Projects			
Project Title	Principal Investigator	Funding Agency	Grants Received (₹)
Synthesis of naphthoquinone based natural product and its analogue by Heck and Michael reactions	Dr. Shubhankar Samanta	DST	Rs. 1778836.00/-

B] Completed Projects			
Project Title	Principal Investigator	Funding Agency	Grants Received (₹)
NIL	NIL	NIL	NIL
18. Research Centre/ facility recognized by the University			NA

19. Publications [2010 – 2015]											
[Detailed list of publication are in Annexure- I]											
Total no. of Publication										65	
National Journals										08	
International journals										57	
Conference Proceedings Paper										0	
Books with ISBN/ ISSN										NO	
Faculty	No. of papers published in peer reviewed journals (National and international)	No. of publication listed in International Database	Monographs	Chapter in Books	Books edited	Books with ISBN/ ISBN	Citation Index	SNIP	SJR	Impact factor	h-index
Achintya Kumar Sarkar	4										
Nikhil Ranjan Pramanik	7										
Sucheta Singha (Chandra)	0										
GautamKumar Mondal	0										
Narayan Chandra Bar	1										
Asim Kumar Majee	2										
Subhash Chandra Maity	1										
Kaushik Maji	4										
Anisur Rahaman Molla	2										
Arabinda Mandal	7										
Shubhankar Samanta	8										
Susanta Kumar Manna	5										
Tirtha Pada Majhi	2										
Rituparna Biswas	13										
Arup Kumar Adak	3										
Shaishab Kumar Dinda	5										

20. Areas of consultancy and income generated	Nil
21. Faculty as members in	
• National Committees	
• International Committees	
• Editorial Board	

Faculty	Committee
Prof. A.K. Sarkar	Member of (i) UG Board of Studies of University of Calcutta (ii) Research Cell of Burdwan University (iv) External member of Ph.D. Committee of IEST, Shibpur (v) Member of Advisory Board of Staff Selection Committee, WB (vi) Indian Association for the Cultivation of Science
Dr. Asim Kumar Majee	Life member of (i) Indian Chemical Society (ii) Central Forensic Science Society, Kolkata
Dr. Anisur Rahaman Molla	Member of Indian Chemical Society
Dr. Kaushik Maji	Life member of Indian Association for the Cultivation of Science
Dr. Tirtha Pada Majhi	Life member of Indian Association for the Cultivation of Science
Arabinda Mandal	Life member of Indian Association for the Cultivation of Science
22. Student Projects	
Percentage of students who have done in-house projects including inter departmental/ programme	58
Percentage of students placed for projects in organizations outside the institution i.e., research laboratories/ Industry/ other agencies	42

23. Awards/ Recognition received by Faculty and Students	
Faculty	
NIL	
Students	
NIL	

24. List of eminent Academicians and Scientist/ Visitors to the Department	Nil
25. Seminars/ Conferences/ Workshops organized & the source of funding	

Seminar/ Conferences/Workshop organized	Year	State level /National / International	Funding Agency	Title/ Theme	Participants and Number
Seminar	24.9.2010& 25.9.2010	National	UGC	Chemistry – A Pathway to Understanding Biological Processes	Participants See annexure I Number : 250
Seminar	5.01.2011	State level	BNC	‘Acharya P. C. Ray- a Chemist and a Visionary’	Participants See annexure I Number : 150
Seminar	7.2. 2012 & 8.2.2012	National	UGC	Some Modern Aspects in Chemical Research- Grooming of UG & PG Students	Participants See annexure I Number : 250
Seminar	6.9. 2013	National	UGC	Theoretical and Experimental Tools in Science – a Chemist’s Approach	Participants See annexure I Number-200

26A. Student profile programme/ course wise [UG in Chemistry]					
Name of the course/ programme [Chemistry Honours]	Application received	Selected	Enrolled		Pass percentage
			Male	Female	
2014 – 2015	524	23	16	07	100
2013 – 2014	600	27	15	12	100
2012 – 2013	513	33	25	8	100
2011 – 2012	529	20	17	3	95
2010 - 2011	525	25	13	12	100

26B. Student profile programme / course wise [PG in Chemistry]					
Name of the course/ programme	Application received	Selected	Enrolled		Pass percentage
			Male	Female	
2014 – 2015	325				
2013 – 2014	194				
2012 – 2013	NA	NA	NA	NA	NA
2011 – 2012	NA	NA	NA	NA	NA
2010 - 2011	NA	NA	NA	NA	NA

27A. Diversity of Students [Chemistry Honours]			
Name of the Course [Anthropology Honours]	% of students from the same State	% of students from the other States	% of students abroad
2014 – 2015	95.66	4.34	0
2013 – 2014	96.3	3.70	0
2012 – 2013	100	0	0
2011 – 2012	100	0	0
2010 - 2011	100	0	0

27B. Diversity of Students [Chemistry Post-Graduate]			
Name of the Course	% of students from the same State	% of students from the other States	% of students abroad
2014 – 2015	100	0	0
2013 – 2014	100	0	0
2012 – 2013	100	0	0
2011 – 2012	100	0	0
2010 - 2011	100	0	0

28. How many students have cleared National and state competitive examinations such as NET, SLET, GATE, Civil Service, Defense Service etc.	Data not available
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Year	Examinations	Candidates Qualified (total students)
2014	JAM /NET/GATE	GATE-3
2013	JAM /NET/GATE	Nil
2012	JAM /NET/GATE	NET - 2
2011	JAM /NET/GATE	Nil

29. Student progression	Percentage against enrolled in Academic Session				
	2014 - 2015	2013-2014	2012-2013	2011-2012	2010 – 2011
UG to PG	100 %	100 %	96 %	98 %	95 %
PG to M.Phil.	NA	NA	NA	NA	NA
PG to Ph.D	NA	NA	NA	NA	NA
Ph.D. to Post-Doctoral	NA	NA	NA	NA	NA
Employed	0	0	0	0	0
• Campus selection	Nil	Nil	Nil	Nil	Nil
• Other than campus recruitment	Nil	Nil	Nil	Nil	Nil
Entrepreneurship/ Self-employed	Nil	Nil	Nil	Nil	Nil

Name of the Service	No. of students selected [2010 – 2015]
Central Government Service	Nil
State Government Service	Nil
School Service Commission	Nil
Bank and related service	Nil
Railway Service	Nil
Insurance Service	Nil
Private sector	Nil

30. Details of Infrastructural facilities	
Library	424 books are available in the departmental library. They are stacked under the respective special papers (Inorganic, Physical and Organic)
Internet facilities for Staff & Students	4 Desktop computers and 1 laptop are available for the internet access. The Department enjoys Unlimited Broad-Band access through connections under MHRD subsidised NMEICT project.
Class room with ICT facility	Five class room
Laboratories	4 laboratories
Instrumentation facility	Provided in laboratory

31A. Number of students receiving financial assistance from College, University, Government or other agencies (UG)					
Session	Type of financial assistance		No. of students receiving financial assistance		
	Govt	Pvt	Total	Male	Female
2014 – 2015	Merit cum- Means, SC-ST Post Matric, Kanyasree etc [Govt]	S.R.Jindal [Pvt]	10	6	4
2013 – 2014	Merit cum- Means, SC-ST Post Matric, Kanyasree etc [Govt]	S.R.Jindal [Pvt]	24	14	10
2012 – 2013	Merit cum- Means, SC-ST Post Matric, etc [Govt]	S.R.Jindal [Pvt]	21	15	6
2011 – 2012	Merit cum- Means, SC-ST Post Matric, etc [Govt]	S.R.Jindal [Pvt]	15	13	2
2010 – 2011	Merit cum- Means, SC-ST Post Matric, etc [Govt]	S.R.Jindal [Pvt]	13	6	7

31B. Number of students receiving financial assistance from College, University, Government or other agencies (PG)					
Session	Type of financial assistance		No. of students receiving financial assistance		
	Govt	Pvt	Total	Male	Female
2014 – 2015	Merit cum- Means, SC-ST Post Matric, Kanyasree etc [Govt]	S.R.Jindal [Pvt]	3	2	1
2013 – 2014	Merit cum- Means, SC-ST Post Matric, Kanyasree etc [Govt]	S.R.Jindal [Pvt]	19	8	11

32. Details of students enrichment programmes (special lecture/ workshops/ seminar) with external experts				
Programme	Year	Title	Funding agency	External Experts / Resource Persons
Nil	Nil	Nil	Nil	Nil

33. Teaching methods adopted to improve student's learning
Power-point based lectures through LCD projector Assessment in the form of class test, half-yearly, annual and test examination Field survey in different Socio-cultural region

34. Participation in Institutional Social Responsibility [ISR] and Extension activities
In different activities of NSS

35. SWOC analysis of the department and Future Plans	
Strength	<ul style="list-style-type: none"> Maintenance of discipline of both students and teachers Geographical location of the College and its ambience. Good academic atmosphere Availability of reading materials in the departmental library as also in the central library Internet connection for both students and teachers Out-of- classroom teacher-student interaction as and when required.
Weakness	<ul style="list-style-type: none"> Shortage of non-teaching staff due to Superannuation. Vacancy in full-time teaching posts. (Likely to be filled in soon) Space crunch (class rooms and laboratory area and sitting arrangements) Unavailability of Basic Chemical Journals
Opportunities	<ul style="list-style-type: none"> Geographical proximity with other institutions of higher learning in and around Kolkata have made research work in those institutions possible. A large number of Guest faculty from institutes of repute have widened the scope for our students to have a glimpse of Modern academic activities.
Challenges	<ul style="list-style-type: none"> The UG curriculum being controlled centrally from the parent University, department has little to do with that part. PG Syllabus to be regularly updated according the changes and development in science research . This hopefully will be done with active supports from the peers of the “Board of Studies”, and the Renowned Guest faculties.

Future Plans	<ul style="list-style-type: none">• To set up a Computational Laboratory for under- and post- graduate students with the following initial objectives:• Learning Scientific Programming Languages (Fortran77,90/C++) with some application in theoretical chemistry.• Quantum chemical calculations using quantum chemistry packages (e.g. MOLPRO).• To set up a Parallel Architecture (Linux based Computer Cluster) to introduce parallel computation for the post graduate students.• Special training to be imparted to the P.G. students in respect to Green chemistry, also called sustainable chemistry - a philosophy of chemical research and engineering that encourages the design of products and processes that minimize the use and generation of hazardous substances• Experiments involving Nano Technology to be an integrated part of the Post graduate curriculum. Students are to be trained in using the technology in treatment of Chemical wastes in laboratories, as electro- catalysts for fuel cells etc.vii. Set up pilot plants in search of alternative source of energy like Fuel Cells, search for cheaper but readily available fuels to replace fossil fuels. Use of Nano particle based cheaper catalysts to enhance efficiencies of fuel cells, while reducing operational cost.
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4. Department of Economics

1. Name of the Department		ECONOMICS		
2. Year of establishment		1985-UG General 1985- UG Honours		
3. Names of Programmes/Coerces offered (UG, PG, M. Phil, Ph. D, Integrated Masters, Integrated Ph. D etc.) Under Graduate (Honours) and Under Graduate (General)				
4. Name of Interdisciplinary courses and the departments /Units involved		Nil		
5. Annual/ semester/ choice based credit system (programme wise) B. Sc. Economics Honours: Annual Examination [Part I, Part II and Part III] B. Sc. Economics General: Annual Examination [Part I and Part II]				
6. Participation of the department in the courses offered by other departments Economics is offered as a General Subject for Political science (Hons.), English (Hons.) and Statistics (Hons.) students				
7. Course in collaboration with other universities, industries, foreign institution, etc.		Nil		
8. Details of programmes discontinued, if any, with reasons		Nil		
9. Number of teaching posts sanctioned, filled and actual (professors/ Associate Professors/ Asst. Professors/ Others				
Academic Session	Faculty	Sanctioned	Filled	Actual (including CAS & MPS)
2014 - 2015	Professor	-	-	Nil
	Associate Professor	05	05	1*
	Assistant Professor			4
2013-2014	Professor	-	-	Nil
	Associate Professor	05	05	1*
	Assistant Professor			4
2012-2013	Professor	-	-	Nil
	Associate Professor	05	05	1*
	Assistant Professor			4
2011-2012	Professor	-	-	Nil
	Associate Professor	05	05	1*
	Assistant Professor			4
2010 - 2011	Professor	-	-	Nil
	Associate Professor	05	05	1*
	Assistant Professor			4

* Except the post of Professor, all the other posts are those of Assistant Professor, upgraded by Govt. Order due to CAS.

10. Faculty profile with name, qualification, designation, area of specialization, experience and research under guidance [Academic Session: 2014 - 2015]					
Name	Qualification	Designation	Area of Specialization	Years of experience	No. of Ph. D/ M. Phil. Students guided for the last 4 years
Amit Roy Choudhury	M.A.	Associate Professor (WBES)	Econometrics	31	Nil
Dola Chattopadhyay	M.Sc. B.Ed	Assistant Professor (WBES)	Econometrics,	12	Nil
Tina Barma	M.Sc, M.Phil	Assistant Professor (WBES)	International trade and development	9	Nil
Sudip Ghosh	M.Sc. M.Phil	Assistant Professor	Econometrics	12	Nil
Moumita Basu	M.Sc. M.Phil	Assistant Professor	International trade and Open Economy Macroeconomics	6	Nil

11. List of senior Visiting Faculty	Nil
12. Percentage of lectures delivered and practical classes handled (programme wise) by temporary faculty	Nil

13. Student-Teacher ratio (programme wise)			
Academic Session	Total no of students	Total no of Teachers	Student-Teacher ratio
2014 – 2015	15	5	3:1
2013 – 2014	21	5	4:1
2012 – 2013	22	5	4:1
2011 – 2012	38	5	8:1
2010 – 2011	31	5	6:1

14. Number of academic support staff (technical) and administrative staff, [sanctioned and filled]					
Sanctioned	Filled	Actual	Name of the Employee	Designation	Category
Nil					

15. Qualification of Teaching Faculty with D. Sc./ D. Litt./ Ph. D/ M. Phil./ PG	
Highest Qualification	No. of Teaching Faculty [present status]
D. Sc./ D. Litt.	Nil
Ph. D	NIL
M. Phil	04
PG	05

16. Number of faculty with ongoing projects from a) National b) International funding agencies and grants received [2010 – 2015]	
a) National	03
b) International funding agencies	Nil
Total grants received	Rs. 333500/-

17. Departmental projects funded by DST-FIST, UGC, DBT, ICSSR etc. and total grants received [2010 – 2015]			
A] Ongoing Projects			
Project Title	Principal Investigator	Funding Agency	Grants Received (₹)
Nil	Nil	Nil	Nil

B] Completed Projects			
Project Title	Principal Investigator	Funding Agency	Grants Received (₹)
Impact of WTO on Indian Garment Industry	Dr. Sudeshna Chattopadhyya [transferred on 13.11.2014]	UGC	1,37,000/-
Environmental regulation & process subcontracting: a case study of gems & jewellery manufacturing units in Kolkata	Dr. Sudeshna Chattopadhyya [transferred on 13.11.2014]	UGC	85,000/-
Agriculture in Bulgaria and West Bengal: Similarities and Lessons Learnt	Tina Barma	UGC	1,11,500/-

18. Research Centre/ facility recognized by the University	NA

19. Publications [2010 – 2015] [Detailed list of publication are in Annexure- I]											
Total no. of Publication											8
National Journals											4
International journals											2
Conference Proceedings Paper											1
Books with ISSN /ISBN											1
Faculty	No. of papers published in peer reviewed journals (National and international)	No. of publication listed in International Database	Monographs	Chapter in Books	Books edited	Books with ISBN/ ISBN	Citation Index	SNIP	SJR	Impact factor	h-index
Sudeshna Chattopadhyaya [transferred on 13.11. 2014]	2			1							
Sudip Ghosh	2										
Moumita Basu	1+1										

20. Areas of consultancy and income generated	Nil
21. Faculty as members in	Nil
a) National Committees	Nil
b) International Committees	Nil
c) Editorial Board	Nil

Faculty	Committee
NIL	

22. Student projects [2010 – 2015]	
a) Percentage of students who have done in-house projects including inter departmental/ programme	100%
b) Percentage of students placed for projects in organizations outside the institution i.e., research laboratories/ Industry/ other agencies	Nil

23. Awards/ Recognition received by Faculty and Students	
• Faculty	
NIL	
• Students	
NIL	

24. List of eminent Academicians and Scientist/ Visitors to the department				Nil
25. Seminars/ Conferences/ Workshops organized & the source of funding				
a) National				Nil
b) International				Nil
Seminar Topic	Level	Funding Agency	Date	Collaboration
Nil	Nil	Nil	Nil	Nil

26. Student profile programme/ course wise					
Name of the course/ programme [Economics Honours]	Application received	Selected	Enrolled		Pass percentage
			Male	Female	
2014 – 2015	136	07	04	03	100%
2013 – 2014	280	11	06	05	100%
2012 – 2013	153	08	04	04	100%
2011 – 2012	241	15	03	12	100%
2010 – 2011	245	13	07	06	100%

27. Diversity of Students			
Name of the Course [Botany Honours]	% of students from the same State	% of students from the other States	% of students abroad
2014 – 2015	100	0	0
2013 – 2014	100	0	0
2012 – 2013	100	0	0
2011 – 2012	100	0	0
2010 – 2011	100	0	0

28. How many students have cleared National and state competitive examinations such as NET, SLET, GATE, Civil Service, Defence Service etc.	Not applicable since the Department only provide UG degree
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29. Student progression	Percentage against enrolled in Academic Session				
	2014 - 2015	2013-2014	2012-2013	2011-2012	2010 – 2011
UG to PG	40	72	50	06	23
PG to M.Phil.	NA	NA	NA	NA	NA
PG to Ph.D	NA	NA	NA	NA	NA
Ph.D. to Post-Doctoral	NA	NA	NA	NA	NA
Employed	NA	NA	NA	NA	NA
• Campus selection					
• Other than campus recruitment					
Entrepreneurship/ Self-employed					

Name of the Service	No. of students selected [2010 – 2015]
Central Government Service	-
State Government Service	02
School Service Commission	-
Bank and related service	-
Railway Service	-
Insurance Service	-
Private sector	06

30. Details of Infrastructural facilities	
a) Library	The department has a well-stocked Seminar Library with 100 books. Students are allowed to borrow books fortnightly
b) Internet facilities for Staff & Students	HOD room and Staff room are LAN connected with internet facilities. Facilities are also provided to students as and when required.
c) Class room with ICT facility	Two theory class rooms
d) Laboratories	01
e) Experimental garden	Nil
f) Instrumentation facility	Nil

31. Number of students receiving financial assistance from College, University, Government or other agencies					
Session	Type of financial assistance		No. of students receiving financial assistance		
			Total	Male	Female
2014 – 2015	Merit cum- Means, Inspire, Kanyasree etc [Govt]	S.R.Jindal [Pvt]	4	2	2
2013 – 2014	Merit cum- Means, Inspire, Kanyasree etc [Govt]	S.R.Jindal [Pvt]	9	4	5
2012 – 2013	Merit cum- Means, Inspire, etc [Govt]	S.R.Jindal [Pvt]	5	3	2
2011 – 2012	Merit cum- Means, Inspire, etc [Govt]	S.R.Jindal [Pvt]	8	1	7
2010 – 2011	Merit cum- Means, Inspire, etc [Govt]	S.R.Jindal [Pvt]	7	3	4

32. Details of students enrichment programmes (special lecture/ workshops/ seminar) with external experts				
Programme	Year	Title	Funding agency	External Experts / Resource Persons
Nil	Nil	Nil	Nil	Nil

33. Teaching methods adopted to improve students learning
a) Power-point based lectures through LCD projector b) Assessment in the form of class test, half-yearly, annual and test examination c) Field survey in different Socio-economic region

Year	Date of Excursion	Place of Excursion
2012-13	24.01.2013, 01.02.2013	Garia (South 24 Parganas), Habra (North 24 Parganas)
2013-14	14.01.2014, 26.02.2014, 1.03.2014	Tangra (Kolkata), Barasat Municipality, Habra Municipality (North 24 Parganas)
2014-15	19.01.2015	Kankinara (North 24 Parganas)

34. Participation in Institutional Social Responsibility [ISR] and Extension activities
a) In different activities of NSS b) Students actively participate in all departmental and college activities with keen interest in Nature and Environment

35. SWOC analysis of the department and Future Plans	
Strength	Number of allotted teaching posts by the Govt. for this department is five and we have five faculty members at present. This helps us to pay attention to the individual students. We also have computer lab with internet facility. This facility also helps the students in their project work which is included in the syllabus
Weakness	Seminar library needs development and also non-teaching staff is required for the smooth functioning of the department
Opportunities	Management course may be introduced along with some interdisciplinary courses. Students of this department have the option to go for corporate as well as academics. Students of this Department apply and also get permission to PG courses in reputed institute throughout studies.
Challenges	Attracting good students for this Department and also to develop interests in the subject, so that majority of the students go for PG courses.
Future Plans	It is initially important to continue to refine and develop the education and offer help to students for admission tests in PG courses for ISI, DSE etc.

5. Department of GEOGRAPHY

1. Name of the Department		GEOGRAPHY		
2. Year of establishment		2013 UG Honours		
3. Names of Programmes/Coerces offered (UG, PG, M. Phil, Ph. D, Integrated Masters, Integrated Ph. D etc.) Under Graduate (Honours)				
4. Name of Interdisciplinary courses and the departments /Units involved		Nil		
5. Annual/ semester/ choice based credit system (programme wise) B. Sc. Geography Honours: Annual Examination [Part I, Part II and Part III]				
6. Participation of the department in the courses offered by other departments Nil				
7. Course in collaboration with other universities, industries, foreign institution, etc.		Nil		
8. Details of programmes discontinued, if any, with reasons		Nil		
9. Number of teaching posts sanctioned, filled and actual (professors/ Associate Professors/ Asst. Professors/ Others				
Academic Session	Faculty	Sanctioned	Filled	Actual (including CAS & MPS)
2014 – 2015	Professor	-	-	Nil
	Associate Professor	05	05	03*
	Assistant Professor			02
2013-2014	Professor	-	-	Nil
	Associate Professor	03	02	02*
	Assistant Professor			Nil
2012-2013	Professor	-	-	Nil
	Associate Professor	02	02	Nil
	Assistant Professor			-
2011-2012	Professor	-	-	-
	Associate Professor	-	-	-
	Assistant Professor			-
2010 – 2011	Professor	-	-	-
	Associate Professor	-	-	-
	Assistant Professor			-

**Except the post of Professor, all the other posts are those of Assistant Professor, upgraded by Govt. Order due to CAS.*

10. Faculty profile with name, qualification, designation, area of specialization, experience and research under guidance [Academic Session: 2014 – 2015]

Name	Qualification	Designation	Area of Specialization	Years of experience	No. of Ph.D./ M.Phil. Students guided for the last 4 years
Dulal Chandra Das	M.A.	Associate Professor (WBES)	Cartography	34	Nil
Hare Krishna Datta	M.A.	Associate Professor (WBES)	Geomorphology	30	Nil
Dr. Somdatta Das	M.Sc., Ph.D.	Associate Professor (WBES)	Regional Planning & Urban Geography	24	Nil
Rituparna Khan	M. Sc.	Assistant Professor (WBES)	Cartography	08	Nil
Shewli Shabnam	M.Sc., M.Phil.	Assistant Professor (WBES)	Cartography	01	Nil

11. List of senior Visiting Faculty	Nil
12. Percentage of lectures delivered and practical classes handled (programme wise) by temporary faculty	Nil

13. Student-Teacher ratio (programme wise)			
Academic Session	Total no of students	Total no of Teachers	Student-Teacher ratio
2014 – 2015	59	5	12:1
2013 – 2014	30	2	15:1
2012 – 2013	No admission due to late approval	2	NA
2011 – 2012	NA	NA	NA
2010 – 2011	NA	NA	NA

15. Qualification of Teaching Faculty with D. Sc./ D. Litt./ Ph. D/ M. Phil./ PG	
Highest Qualification	No. of Teaching Faculty [present status]
D. Sc./ D. Litt.	Nil
Ph. D	01
M. Phil	01
PG	03

14. Number of academic support staff (technical) and administrative staff, [sanctioned and filled]					
Sanctioned	Filled	Actual	Name of the Employee	Designation	Category
Nil					

16. Number of faculty with ongoing projects from a) National b) International funding agencies and grants received	
a) National	Nil
b) International funding agencies	Nil
Total grants received	Nil

17. Departmental projects funded by DST-FIST, UGC, DBT, ICSSR etc. and total grants received [2010 – 2015]			
A] Ongoing Projects			
Project Title	Principal Investigator	Funding Agency	Grants Received (₹)
Nil			

B] Completed Projects			
Project Title	Principal Investigator	Funding Agency	Grants Received (₹)
Nil			

18. Research Centre/ facility recognized by the University	NA
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19. Publications [2010 – 2015] [Detailed list of publication are in Annexure- I]											
Total no. of Publication											18
National Journals											09
International journals											03
Conference Proceedings Paper											Nil
Books with ISBN/ ISSN											06
Faculty	No. of papers published in peer reviewed journals (National and international)	No. of publication listed in International Database	Monographs	Chapter in Books	Books edited	Books with ISBN/ ISBN	Citation Index	SNIP	SJR	Impact factor	h-index
Dulal Chandra Das				-	-	6					
Hare Krishna Datta	-	-	-	-	-	-	-	-	-	-	-
Dr. Somdatta Das	-	-	-	-	-	-	-	-	-	-	-
Rituparna Khan	4										
Shewli Shabnam	8										

20. Areas of consultancy and income generated	Nil
21. Faculty as members in	
a) National Committees	05
b) International Committees	Nil
c) Editorial Board	Nil

Faculty	Committee
Dulal Chandra Das	Life Member of Geographical Society of India
Hare Krishna Datta	Life Member of Geographical Society of India
Dr. Somdatta Das	Life Member of Geographical Society of India Life Member of National Association of Geographers of India
Rituparna Khan	Life Member of Geographical Society of India
Shewli Shabnam	Life Member of Geographical Society of India

22. Student projects	NA
a) Percentage of students who have done in-house projects including inter departmental/ programme	NA
b) Percentage of students placed for projects in organizations outside the institution i.e., research laboratories/ Industry/ other agencies	NA

23. Awards/ Recognition received by Faculty and Students	
• Faculty	
Nil	
• Students	
Nil	

24. List of eminent Academicians and Scientist/ Visitors to the department	Nil
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25. Seminars/ Conferences/ Workshops organized & the source of funding	
a) National funded by UGC in collaboration with BSI	Nil
b) International	Nil

26. Student profile programme/ course wise					
Name of the course/ programme [Geography Honours]	Application received	Selected	Enrolled		Pass percentage
			Male	Female	
2014 – 2015	588	29	21	08	89
2013 – 2014	483	30	17	13	86
2012 – 2013	NA	NA	NA	NA	NA
2011 – 2012	NA	NA	NA	NA	NA
2010 - 2011	NA	NA	NA	NA	NA

27. Diversity of Students			
Name of the Course [Geography Honours]	% of students from the same State	% of students from the other States	% of students abroad
2014 – 2015	100	Nil	Nil
2013 – 2014	100	Nil	Nil
2012 – 2013	Nil	Nil	Nil
2011 – 2012	Nil	Nil	Nil
2010 - 2011	Nil	Nil	Nil

28. How many students have cleared National and state competitive examinations such as NET, SLET, GATE, Civil Service, Defence Service etc.	Not applicable since the Department only provide UG degree
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29. Student progression	Percentage against enrolled in Academic Session				
	2014 - 2015	2013- 2014	2012- 2013	2011- 2012	2010 – 2011
UG to PG	NA	NA	NA	NA	NA
PG to M.Phil.	NA	NA	NA	NA	NA
PG to Ph.D	NA	NA	NA	NA	NA
Ph.D. to Post-Doctoral	NA	NA	NA	NA	NA
Employed	NA	NA	NA	NA	NA
• Campus selection					
• Other than campus recruitment					
Entrepreneurship/ Self-employed					

Name of the Service	No. of students selected [2010 – 2015]
Central Government Service	NA
State Government Service	NA
School Service Commission	NA
Bank and related service	NA
Railway Service	NA
Insurance Service	NA
Private sector	NA

30. Details of Infrastructural facilities	
a) Library	The department has a well-stocked Seminar Library with 269 books. Students are allowed to borrow books fortnightly
b) Internet facilities for Staff & Students	Staff room is connected with internet facilities. Facilities are also provided to students as and when required.
c) Class room with ICT facility	Three theory class rooms One UGC-sponsored SMART class room, equipped with LCD projector, PEN display and Sound system
d) Laboratories	One laboratory room
e) Experimental garden	Nil
f) Instrumentation facility	Department is equipped with a number of instruments for students routine practical class as well as research study. Some of the important instruments are presented below 1) Dumpy Level. 2) Prismatic Compass. 3) Mirror Stereoscope. 4) GIS & RS Software (QGIS). 5) GPS

31. Number of students receiving financial assistance from College, University, Government or other agencies					
Session	Type of financial assistance		No. of students receiving financial assistance		
	Govt	Pvt	Total	Male	Female
2014 – 2015	Merit cum- Means, Inspire, Kanyasree etc [Govt]	S.R.Jindal [Pvt]	13	12	1
2013 – 2014	Merit cum- Means, Inspire, Kanyasree etc [Govt]	S.R.Jindal [Pvt]	19	12	7

32. Details of students enrichment programmes (special lecture/ workshops/ seminar) with external experts				
Programme	Year	Title	Funding agency	External Experts / Resource Persons
Special Lecture	2015	Evolution of caste system in India and its socio-political implication	Bidhannagar College	Prof. Aritra Chakraborty Presidency University, Kolkata

33. Teaching methods adopted to improve students learning
a) Power-point based lectures through LCD projector b) Assessment in the form of class test, half-yearly, annual and test examination a) Field survey in different phyto-geographic region

34. Participation in Institutional Social Responsibility [ISR] and Extension activities	
a)	In different activities of NSS
b)	Students actively participate in all departmental and college activities with keen interest – in Nature and Environment

35. SWOC analysis of the department and Future Plans	
Strength	<ul style="list-style-type: none"> • It is a full staffed department. • Comprised of veteran and experienced teachers with Post Graduate teaching experience as well as youngsters with full working zeal. • Good and harmonious academic environment. • Good teacher taught relation. • Considerably good proportion of teacher-student ratio (1:12).
Weakness	<ul style="list-style-type: none"> • It is a very new department and yet to prove its level of excellence. • A laboratory based department without the aid of any non-academic or administrative staff. • The department is located in the new building of the college, which is yet to be provided with all facilities and hence, faces a number of infrastructural problems. • Space crunch for proper storage of laboratory instruments. • Since it is the youngest department in the college, it is yet to receive complete attention.
Opportunities	<ul style="list-style-type: none"> • New infrastructural development and modern amenities are coming up for upgradation of the department. • Combination of ideologies of veteran teachers and fresh youngsters will lead to smooth functioning of the department. • New books, journals and other study materials are to be added to the seminar Library of the department. • Upcoming government grants and UGC grants will be funding to purchase new equipments for the laboratories (Geography Lab and GIS & RS Lab). • Teachers may involve themselves in the upcoming UGC Projects which will be beneficial to upgrade the academic and research oriented excellence of the department.
Challenges	<ul style="list-style-type: none"> • The department has to prove its excellence since it is in its rudimentary stage. • A full fledged and self sufficient department has to be developed. • Lack of non-academic and administrative staff creates hindrance in the proper running of a laboratory based department, especially during the time of excursions. • The building where the department is located is yet to be fully armed with all amenities, leading to infrastructural problems. • To bring as many number of projects as possible and to get maximum grants to purchase new equipments and more number of books to support the students.
Future Plans	<ul style="list-style-type: none"> • To upgrade the GIS & RS Lab that is in a rudimentary stage. • One classroom is a smart room; another room is also required to be converted to a smart room.

6. Department of MATHEMATICS

1. Name of the Department		MATHEMATICS		
2. Year of establishment		1984 (UG)		
3. Names of Programmes/Coerces offered (UG, PG, M. Phil, Ph. D, Integrated Masters, Integrated Ph. D etc.) Under Graduate (Honours)				
4. Name of Interdisciplinary courses and the departments /Units involved		Nil		
5. Annual/ semester/ choice based credit system (programme wise) B. Sc. Mathematics Honours: Annual Examination [Part I, Part II and Part III] B. Sc. Mathematics General: Annual Examination [Part I and Part II]				
6. Participation of the department in the courses offered by other departments Mathematics is offered as a General Subject for Physics (Hons.), Chemistry (Hons.), Statistics (Hons.) and Economics (Hons.) students				
7. Course in collaboration with other universities, industries, foreign institution, etc.		Nil		
8. Details of programmes discontinued, if any, with reasons		Nil		
9. Number of teaching posts sanctioned, filled and actual (professors/ Associate Professors/ Asst. Professors/ Others				
Academic Session	Faculty	Sanctioned	Filled	Actual (including CAS & MPS)
2014 - 2015	Professor	Nil	-	-
	Associate Professor	05	04	03*
	Assistant Professor			01
2013-2014	Professor	Nil	04	-
	Associate Professor	05		02*
	Assistant Professor			02
2012-2013	Professor	Nil	04	-
	Associate Professor	05		02*
	Assistant Professor			02
2011-2012	Professor	05	05	-
	Associate Professor			02*
	Assistant Professor			03
2010 - 2011	Professor	Nil	05	-
	Associate Professor	05		01*
	Assistant Professor			04

* *Except the post of Professor, all the other posts are those of Assistant Professor, upgraded by Govt. Order due to CAS.

10. Faculty profile with name, qualification, designation, area of specialization, experience and research under guidance [Academic Session: 2014 - 2015]					
Name	Qualification	Designation	Area of Specialization	Years of experience	No. of Ph. D/ M. Phil. Students guided for the last 4 years
Dr. Anup Sengupta	M. Sc., Ph. D.	Associate Professor (WBES)	Algebra, Real analysis	30	Nil
Dr. Syamali Bhadra	M. Sc., M.Phil, Ph. D.	Associate Professor (WBES)	Mathematical Biology	18	Nil
Narayan Ch. Basak	M. Sc., M.Phil.	Associate Professor (WBES)	Computer Science and Cybernatics	30	Nil
Ramkrishna Thakur	M. Sc.	Assistant Professor (WBES)	Real analysis, Topology	6	Nil

11. List of senior Visiting Faculty	Nil
12. Percentage of lectures delivered and practical classes handled (programme wise) by temporary faculty	Nil

13. Student-Teacher ratio (programme wise)			
Academic Session	Total no of students	Total no of Teachers	Student-Teacher ratio
2014 – 2015	45	04	11:1
2013 – 2014	50	04	12:1
2012 – 2013	60	04	15:1
2011 – 2012	55	05	11:1
2010 – 2011	49	05	10:1

14. Number of academic support staff (technical) and administrative staff, [sanctioned and filled]					
Sanctioned	Filled	Actual	Name of the Employee	Designation	Category
Nil	-	-	-	-	-

15. Qualification of Teaching Faculty with D. Sc./ D. Litt./ Ph. D./ M. Phil./ PG	
Highest Qualification	No. of Teaching Faculty [present status]
D. Sc./ D. Litt.	Nil
Ph. D.	02
M. Phil.	01
PG	01

16. Number of faculty with ongoing projects from a) National b) International funding agencies and grants received	
a) National	1 (one)
b) International funding agencies	Nil
Total grants received	Rs.250000/-

17. Departmental projects funded by DST-FIST, UGC, DBT, ICSSR etc. and total grants received [2010 – 2015]			
A] Ongoing Projects			
Project Title	Principal Investigator	Funding Agency	Grants Received (₹)
An Empirical Analysis Of Tax Gap In The Brick Fields In West Bengal	Dr. Syamali Bhadra	UGC	Rs.250000/-

B] Completed Projects			
Project Title	Principal Investigator	Funding Agency	Grants Received (₹)
Nil			

18. Research Centre/ facility recognized by the University	NA
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19. Publications [2010 – 2015] [Detailed list of publication are in Annexure- I]											
Total no. of Publication											18
National Journals											03
International journals											13
Conference Proceedings Paper											02
Books with ISBN / ISSN											0
Faculty	No. of papers published in peer reviewed journals (National and international)	No. of publication listed in International Database	Monographs	Chapter in Books	Books edited	Books with ISBN/ ISBN	Citation Index	SNIP	SJR	Impact factor	h-index
Dr. Anup Sengupta	00										
Dr. Syamali Bhadra	01										
Narayan Ch. Basak	00										
Ramkrishna Thakur	04										
Koushik Saha	08										
Partha Karmakar	03										

20. Areas of consultancy and income generated	Nil
21. Faculty as members in	Nil
a) National Committees	
b) International Committees	
c) Editorial Board	

Faculty	Committee
Dr. Anup Sengupta	NIL
Dr. Syamali Bhadra	NIL
Narayan Ch. Basak	NIL
Ramkrishna Thakur	NIL

22. Student projects	Nil
a) Percentage of students who have done in-house projects including inter departmental/ programme	Nil
b) Percentage of students placed for projects in organizations outside the institution i.e., research laboratories/ Industry/ other agencies	Nil

23. Awards/ Recognition received by Faculty and Students	
• Faculty	
NIL	
• Students	
NIL	

24. List of eminent Academicians and Scientist/ Visitors to the department	Nil
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25. Seminars/ Conferences/ Workshops organized & the source of funding	
a) National	01
b) International	Nil

Seminar Topic	Level	Funding Agency	Date	Collaboration
One day workshop on “Inclusive Mathematics” organized by Association for Improvement of Mathematics Teaching	National	AIMT	13/2/2013	AIMT

26. Student profile programme/ course wise [Mathematics Honours]					
Name of the course/ programme	Application received	Selected	Enrolled		Pass percentage
			Male	Female	
2014 – 2015	393	23	17	06	100
2013 – 2014	572	28	28	0	100
2012 – 2013	433	33	28	05	82.3
2011 – 2012	521	18	15	03	100
2010 -- 2011	525	24	17	07	100

27. Diversity of Students [Mathematics Honours]			
Name of the Course	% of students from the same State	% of students from the other States	% of students abroad
2014 – 2015	100	0	0
2013 – 2014	100	0	0
2012 – 2013	100	0	0
2011 – 2012	100	0	0
2010 - 2011	100	0	0

28. How many students have cleared National and state competitive examinations such as NET, SLET, GATE, Civil Service, Defence Service etc.	Not applicable since the Department only provide UG degree
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29. Student progression	Percentage against enrolled in Academic Session				
	2014 - 2015	2013-2014	2012-2013	2011-2012	2010 – 2011
UG to PG	Data unavailable	Data unavailable	Data unavailable	Data unavailable	Data unavailable
PG to M.Phil.	NA	NA	NA	NA	NA
PG to Ph.D.	NA	NA	NA	NA	NA
Ph.D. to Post-Doctoral	NA	NA	NA	NA	NA
Employed	Data unavailable	Data unavailable	Data unavailable	Data unavailable	Data unavailable
• Campus selection	Nil	Nil	Nil	Nil	Nil
• Other than campus recruitment	Data unavailable	Data unavailable	Data unavailable	Data unavailable	Data unavailable
Entrepreneurship/ Self-employed	Data unavailable	Data unavailable	Data unavailable	Data unavailable	Data unavailable

Name of the Service	No. of students selected [2010 – 2015]
Central Government Service	No information available
State Government Service	No information available
School Service Commission	No information available
Bank and related service	No information available
Railway Service	No information available
Insurance Service	No information available
Private sector	No information available

30. Details of Infrastructural facilities	
a) Library	The department has a well-stocked Seminar Library with 937 books. Students are allowed to borrow books fortnightly
b) Internet facilities for Staff & Students	Staff room is connected with internet facilities. Facilities are also provided to students as and when required.
c) Class room with ICT facility	Two theory class rooms One UGC-sponsored SMART class room, equipped with LCD projector, PEN display and Sound system
d) Laboratories	01
e) Experimental garden	Nil
f) Instrumentation facility	Nil

31. Number of students receiving financial assistance from College, University, Government or other agencies [Mathematics Honours]					
Session	Type of financial assistance		No. of students receiving financial assistance		
	Govt	Pvt	Total	Male	Female
2014 – 2015	Merit cum- Means, SC-ST Post Matric, Kanyasree etc	S.R.Jindal	11	9	2
2013 – 2014	Merit cum- Means, SC-ST Post Matric, Kanyasree etc	S.R.Jindal	17	17	0
2012 – 2013	Merit cum- Means, SC-ST Post Matric, etc	S.R.Jindal	17	16	1
2011 – 2012	Merit cum- Means, SC-ST Post Matric, etc	S.R.Jindal	11	11	0
2010 – 2011	Merit cum- Means, SC-ST Post Matric, etc	S.R.Jindal	11	9	2

32. Details of students enrichment programmes (special lecture/ workshops/ seminar) with external experts

Programme	Year	Title	Funding agency	External Experts / Resource Persons
NIL				

33. Teaching methods adopted to improve students learning

- a) Power-point based lectures through LCD projector
- b) Assessment in the form of class test, half-yearly, annual and test examination
- c) Regular counselling of students by teachers.
- d) Parent teacher meeting.
- e) Tutorial classes.

Year	Date of Excursion	Place of Excursion
2014-15	NIL	NIL
2013-14	NIL	NIL
2012-13	NIL	NIL
2011-12	NIL	NIL

34. Participation in Institutional Social Responsibility [ISR] and Extension activities

- a) In different activities of NSS
- b) Students actively participate in all departmental and college activities with keen interest in Nature and Environment.

35. SWOC analysis of the department and Future Plans

Strength	<ol style="list-style-type: none"> 1. Government institution. 2. Financial security. 3. Qualified faculty. 4. Satisfactory teacher student ratio. 5. Departmental Library. 6. Computer laboratory with printer. 7. Regular parent teacher meeting. 8. Regular class tests. 9. Regular tutorial classes. 10. Regular departmental meeting. 11. Regular student teacher interaction outside classroom. 12. Tutorial classes. 13. Participation of students in college sports etc.
Weakness	Lack of <ol style="list-style-type: none"> 1. Departmental reading room. 2. Adequate number of class rooms. 3. Non-teaching staff.

Opportunities	<ol style="list-style-type: none"> 1. Promotion of self -study and thinking 2. Understanding concepts 3. Problem solving and development of skills 4. Learning values from teachers
Challenges	<p>At present, it is the general trend of our society that academically good students of science stream after passing high school are choosing Engineering and Medical courses for their future studies instead of joining General Science courses.</p> <p>. Most of the students, taking admission, are not having good marks in Mathematics and are not having keen interest in the subject. As a result, it becomes difficult to motivate them.</p>
Future Plans	<ol style="list-style-type: none"> <i>i.</i> Arrangement of Continuous special lecture by Eminent College/University teachers. <i>ii.</i> To Arrange MTTTS programme with the help of NBHM, India. <i>iii.</i> To arrange at least one National Seminar in every year <i>iv.</i> To publish Departmental journals <i>v.</i> To publish Departmental wall magazine <i>vi.</i> Undertaking Research projects and widening Research activities by faculty members

Department of MICROBIOLOGY

1. Name of the Department		MICROBIOLOGY		
2. Year of establishment		UG Honours- 2002 PG- 2004		
3. Names of Programmes/Courses offered (UG, PG, M. Phil, Ph. D, Integrated Masters, Integrated Ph. D etc.) Under Graduate (Honours) and Post Graduate				
4. Name of Interdisciplinary courses and the departments /Units involved		Nil		
5. Annual/ semester/ choice based credit system (programme wise) B. Sc. Microbiology Honours: Annual Examination [Part I, Part II and Part III] M. Sc in Microbiology: Semester-I, II, III, and IV [each semester of 6 months duration]				
6. Participation of the department in the courses offered by other departments Regular participation for taking classes at PG level course by Professors of Botany & Zoology Department				
7. Course in collaboration with other universities, industries, foreign institution, etc.		Nil		
8. Details of programmes discontinued, if any, with reasons		Nil		
9. Number of teaching posts sanctioned, filled and actual (professors/ Associate Professors/ Asst. Professors/ Others)				
Academic Session	Faculty	Sanctioned	Filled	Actual (including CAS & MPS)
2014 – 2015	Professor	02	-	-
	Associate Professor		04	01*
	Assistant Professor	08		03
2013-2014	Professor	02	-	-
	Associate Professor		04	01*
	Assistant Professor	08		03
2012-2013	Professor	02	-	-
	Associate Professor		05	02*
	Assistant Professor	08		03
2011-2012	Professor	02	-	-
	Associate Professor		08	04*
	Assistant Professor	08		04
2010 – 2011	Professor	01	-	-
	Associate Professor		08	04*
	Assistant Professor	08		04

* Except the post of Professor, all the other posts are those of Assistant Professor, upgraded by Govt. Order due to CAS.

10. Faculty profile with name, qualification, designation, area of specialization, experience and research under guidance [present status]					
Name	Qualification	Designation	Specialization	Years of experience	No. of Ph. D/ M. Phil. Students guided for the last 4 years
Dr. Subhas Chandra Jana	M.Sc.,Ph.D. Post Doc	Associate Professor [WBES]	Industrial, Medical & Environmental Microbiology	17 UG 15 PG	3 Ph.D.
Dr. Abul Kalam	M.Sc., Ph.D., Post Doc.(CSIR)	Assistant Professor [WBES]	Environmental & Food Microbiology	14 UG 10 PG	Nil
Dr. Sandip Bandopadhyay	M.Sc., Ph.D.	Assistant Professor [WBES]	Molecular Biology & Biotechnology	13 UG 12 PG	Nil
Dr. Masrur Alam	M.Sc., Ph.D.	Assistant Professor [WBES]	Environmental Microbiology, Microbial Genomics and Proteomics	<1	Nil
Dr. Upal Das Ghosh	M.Sc., Ph.D.	Assistant Professor [WBES]	Environmental Microbiology, Microbial Genomics	<1	Nil
Mr. Sudipta Chakraborty	M.Sc.	Assistant Professor [WBES]	Medical Microbiology & Biochemistry	3	Nil
Mr. Sandip Misra	M.Sc.	Assistant Professor [WBES]	Cell Biology & Biotechnology	<1	Nil
Mrs. Parama Das Gupta	M.Sc.	Assistant Professor [WBES]	Environmental Microbiology	10 UG <1 PG	Nil
Mr. Sourav Pakrashi	M.Sc., M. Tech	Assistant Professor [WBES]	Cell Biology & Molecular Biology	<1	Nil
Dr. Anup Halder	M.Sc., Ph.D, Post Doc	Permanent Lecturer (part-time)	Environmental Microbiology	11	Nil

11. List of Visiting Faculty/ Guest lecturer [2010 – 2015]	
Name of Faculty	Topic covered
Dr. Satya Ranjan Saha	General and Environmental Microbiology, Metal-Microbe interaction
Dr. Pataki Charan Banerjee	Carbon Metabolism, Industrial Microbiology
Prof. Netai Chandra Mondal	Virology, Genetic Recombination in Bacteria
Dr. Amitabha Kundu	Virology
Dr. Somita Poddar	Bioinformatics
Dr. Arabinda Das	Biophysical chemistry, Transport Process
Dr. Asim Bera	Biomolecules and Stereochemistry
Dr. Pradipta Sarkar	Molecular Biology
Dr. Soumita Dutta	DNA damage & repair

12. Percentage of lectures delivered and practical classes handled (programme wise) by temporary faculty			Nil
Academic Session	Lectures delivered [%]	Practical classes handled [%]	
2014 – 2015	50	Nil	
2013 – 2014	50	Nil	
2012 – 2013	20	Nil	
2011 – 2012	10	Nil	
2010 – 2011	10	Nil	

13A. Student-Teacher ratio (Under Graduate)			
Academic Session	Total no of students	Total no of Teachers (Permanent + PT / GT)*	Student-Teacher ratio
2014 – 2015	38	04 + 06 = 10	4:1
2013 – 2014	31	04 + 06 = 10	3:1
2012 – 2013	35	05 + 03 = 08	4:1
2011 – 2012	33	08 + 02 = 10	3:1
2010 – 2011	30	08 + 01 = 09	3:1

* PT= Part time teacher, GT= Guest Teacher

13B. Student-Teacher ratio (Post-Graduate)			
Academic Session	Total no of students	Total no of Teachers (Permanent + PT /GT)*	Student-Teacher ratio
2014 – 2015	32	04 + 08 = 12	3:1
2013 – 2014	34	04 + 06 = 10	3:1
2012 – 2013	39	05 + 06 = 11	4:1
2011 – 2012	38	08 + 07 = 15	3:1
2010 – 2011	37	08 + 06 = 14	3:1

* PT= Part time teacher, GT= Guest Teacher.

14. Number of academic support staff (technical) and administrative staff, [sanctioned and filled]					
Sanctioned	Filled	Actual	Name of the Employee	Designation	Category
2	2	2	Sri Alok Makal	Laboratory Assistant	Group- C
			Sri Biplab Sarkar	Laboratory Attendant	Group- D

15. Qualification of Teaching Faculty with D. Sc./ D. Litt./ Ph. D/ M. Phil./ PG	
Highest Qualification	No. of Teaching Faculty
D. Sc./ D. Litt.	Nil
Ph. D	06
M. Tech.	01
PG	03

16. Number of faculty with ongoing projects from a) National b) International funding agencies and grants received	
a) National	2 (Two)
b) International funding agencies	Nil
Total grants received	Rs. 34,27,000

17. Departmental projects funded by DST-FIST, UGC, DBT, ICSSR etc. and total grants received [2010 – 2015]			
A] Ongoing Projects			
Project Title	Principal Investigator	Funding Agency	Grants Received (₹)
Isolation of antimicrobial protein from lactic acid bacteria & its potential application as bio-preservative	Dr. Abul Kalam	DST , Govt. of West Bengal	Rs 905000/-
Production of functional Dahi by isolated probiotic strain from breast fed human baby.	Dr. Subhas Chandra Jana	MFPI	Rs 25, 22, 000

B] Completed Projects			
Project Title	Principal Investigator	Funding Agency	Grants Received (₹)
Studies on agricultural applications of biopesticides in different combinations for the management of betal vine disease	Dr. Subhas Chandra Jana	DST , Govt. of West Bengal (2010-13)	Rs 801800/-

18. Research Centre/ facility recognized by the University	NA
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19. Publications [2010 – 2015]											
[Detailed list of publication are in Annexure- I]											
Total no. of Publication										43	
National Journals										10	
International journals										25	
Conference Proceedings Paper										07	
Chapter in Books with ISBN / ISSN										01	
Faculty	No. of papers published in peer reviewed journals (National and international)	No. of publication listed in International Database	Monographs	Chapter in Books	Books edited	Books with ISBN/ ISBN	Citation Index	SNIP	SJR	Impact factor	h-index
Dr. Subhas Chandra Jana	10	-	-	-	-	-	-	-	-	-	-
Dr. Abul Kalam	06	-	-	01	-	-	-	-	-	-	-
Dr. Sandip Bandopadhyay	05	-	-	-	-	-	-	-	-	-	-
Dr. Nivedita Nag	01	-	-	-	-	-	-	-	-	-	-
Dr. Masrura Alam	05										
Dr. Upal Das Ghosh	01										
Mr. Sudipta Chakraborty	01										
Mr. Sandip Misra	02										
Mr. Sourav Pakrashi	03										
Dr. Anup Kumar Halder	01										

20. Areas of consultancy and income generated	Nil
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21. Faculty as members in	
a) National Committees	Nil
b) International Committees	Nil
c) Editorial Board	02

Faculty	Committee
Dr. Subhas Chandra Jana	Post Graduate Board of Studies, Bidhannagar College Under Graduate Board of Studies, West Bengal State University
Dr. Abul Kalam	Post Graduate Board of Studies, Bidhannagar College
Dr. Sandip Bandopadhyay	Post Graduate Board of Studies, Bidhannagar College
Dr. Nivedita Nag [transferred on June 2015]	Post Graduate Board of Studies, Bidhannagar College
Dr. Masrura Alam	Post Graduate Board of Studies, Bidhannagar College

22. Student projects	
a) Percentage of students who have done in-house projects including inter departmental/ programme	10% of the PG students
b) Percentage of students placed for projects in organizations outside the institution i.e., research laboratories/ Industry/ other agencies	90% of the PG students

23. Awards/ Recognition received by Faculty and Students	
• Faculty	
Dr. Abul Kalam	Received the STATE AWARD in the category of OUTSTANDING EMPLOYEE WITH DISABILITY FOR EFFICIENCY, DEDICATION, SINCERITY AND DEVOTION given by the Ministry of Women Development & Social welfare Department, Govt. of West Bengal, in 3 rd December, 2012
• Students	
Deep Chatterjee	Awarded Max Planck Research Scholar in Max Planck Research School, Germany in 2009
Raktim Maiti (B.Sc 1st Year Student, 2010-2013)	Awarded for the Kishore Vigyan Protsahan Yojana (KVPY-National Fellowship) in 2010-11
Abhijit Poddar (Research Scholar)	has got Best Research Paper Presentation Award in Microbiology Section W.B. State Science & Technology Congress in Feb, 2011 organized by W.B. State Science & Technology Department, held at Narendrapur Ram Krishna Mission
Abhiroop Mukherjee (B.Sc. Student, 2006-09)	Ranked Second in All India Level in GATE Examination 2012.
Afsana Naaz (B.Sc. Student)	Qualified JNU M.Sc. Biotechnology Entrance Examination in 2012, ranked within 100 in All India Ranking.
Madhumita Chakladar (B.Sc. Student)	Qualified JNU M.Sc. Biotechnology Entrance Examination in 2012
Rakesh Sarkar	Qualified Joint CSIR-UGC NET with AIR 04 in 2015

24. List of eminent Academicians and Scientist/ Visitors to the department	Nil
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25. Seminars/ Conferences/ Workshops organized & the source of funding	
a) National funded by UGC in collaboration with Heritage Institute of Technology	1
b) International	Nil

Seminar Topic	Level	Funding Agency	Date	Collaboration
NATIONAL SEMINAR ON "RECENT ADVANCES IN MICROBIOLOGY AND BIOTECHNOLOGY"	National	UGC	14-15 JAN, 2012	Heritage Institute of Technology

26A. Student profile programme/ course wise [UG in Microbiology]					
Name of the course/ programme	Application received	Selected	Enrolled		Pass percentage
			Male	Female	
2014 – 2015	531	22	13	09	100
2013 – 2014	330	17	06	11	100
2012 – 2013	369	21	13	08	100
2011 – 2012	308	10	03	07	100
2010 - 2011	300	12	06	06	100

26B. Student profile programme/ course wise [PG in Microbiology]					
Name of the course/ programme	Application received	Selected	Enrolled		Pass percentage
			Male	Female	
2014 – 2015	98	20	11	09	100
2013 – 2014	300	9	05	04	100
2012 – 2013	300	20	02	18	100
2011 – 2012	280	20	10	10	100
2010 - 2011	240	21	07	14	100

27A. Diversity of Students			
Name of the Course [Microbiology Honours]	% of students from the same State	% of students from the other States	% of students abroad
2014 – 2015	100	Nil	Nil
2013 – 2014	100	Nil	Nil
2012 – 2013	100	Nil	Nil
2011 – 2012	100	Nil	Nil
2010 - 2011	100	Nil	Nil

27B. Diversity of Students			
Name of the Course [PG in Microbiology]	% of students from the same State	% of students from the other States	% of students abroad
2014 – 2015	100	Nil	Nil
2013 – 2014	100	Nil	Nil
2012 – 2013	100	Nil	Nil
2011 – 2012	100	Nil	Nil
2010 - 2011	100	Nil	Nil

28. How many students have cleared National and state competitive examinations such as NET, SLET, GATE, Civil Service, Defence Service etc.	<u>Exam 2010-2015</u> NET- 15, GATE- 12, WBPS- 02, FCI- 03
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29. Student progression	Percentage against enrolled in Academic Session				
	2014 - 2015	2013-2014	2012-2013	2011-2012	2010 – 2011
UG to PG	100	100	100	100	100
PG to M.Phil.	NA	NA	NA	NA	NA
PG to Ph.D	NA	10	10	33	25
Ph.D. to Post-Doctoral	NA	NA	NA	NA	NA
Employed	5.7	4.3	14	5.7	14
• Campus selection	Nil	Nil	Nil	Nil	Nil
• Other than campus recruitment	5.7	4.3	14	5.7	14
Entrepreneurship/ Self-employed	NA	NA	NA	NA	NA

Name of the Service	No. of students selected [2010 – 2015]
Central Government Service	05
State Government Service	02
School Service Commission	02
Bank and related service	05
Railway Service	00
Insurance Service	00
Private sector	21
Research	34

30. Details of Infrastructural facilities	
i) Library	The department has a well-stocked Seminar Library with over 500 books. Students are allowed to borrow books fortnightly.
a) Internet facilities for Staff & Students	HOD room and Staff room are LAN connected with internet facilities. Facilities are also provided to students as and when required.
iii) Class room with ICT facility	Two theory class rooms of which one UGC-sponsored SMART class room, equipped with LCD projector, PEN display and Sound system
iv) Laboratories	Two laboratories out of which one is General Laboratory
v) Experimental garden	Nil
vi) Instrumentation facility	Department is equipped with a number of instruments for students routine practical class as well as research study. Some of the important instruments are presented below <ol style="list-style-type: none"> 1) DNA and Protein Gel Electrophoresis Unit 2) Thermal Cycler 3) Laminar air flow 4) UV-Visible Spectrophotometer 5) ELISA Plate Reader 6) Ultra-sonicator 7) CO₂ Incubator 8) Cold Centrifuge

31A. Number of students receiving financial assistance from College, University, Government or other agencies [Under Graduate]					
Session	Type of financial assistance		No. of students receiving financial assistance		
	Govt	Pvt	Total	Male	Female
2014 – 2015	Merit cum-Means, SC-ST Post Matric, Kanyasree etc.	S.R. Jindal	6	3	3
2013 – 2014	Merit cum-Means, SC-ST Post Matric, Kanyasree etc	S.R. Jindal	12	4	8
2012 – 2013	Merit cum-Means, SC-ST Post Matric, Kanyasree etc	S.R. Jindal	5	2	3
2011 – 2012	Merit cum-Means, SC-ST Post Matric, Kanyasree etc	S.R. Jindal	8	2	6
2010 – 2011	Merit cum-Means, SC-ST Post Matric, Kanyasree etc	S.R. Jindal	2	0	2

31B. Number of students receiving financial assistance from College, University, Government or other agencies [Post-Graduate]					
Session	Type of financial assistance		No. of students receiving financial assistance		
	Govt	Pvt	Total	Male	Female
2014 – 2015	Merit cum-Means, SC-ST Post Matric, Kanyasree etc.	S.R. Jindal	0	0	0
2013 – 2014	Merit cum-Means, SC-ST Post Matric, Kanyasree etc	S.R. Jindal	7	4	3
2012 – 2013	Merit cum-Means, SC-ST Post Matric, Kanyasree etc	S.R. Jindal	2	0	2
2011 – 2012	Merit cum-Means, SC-ST Post Matric, Kanyasree etc	S.R. Jindal	15	9	6
2010 – 2011	Merit cum-Means, SC-ST Post Matric, Kanyasree etc	S.R. Jindal	8	4	4

32. Details of students enrichment programmes (special lecture/ workshops/ seminar) with external experts				
Programme	Year	Title	Funding agency	External Experts / Resource Persons
UGC sponsored National Seminar	2012	Recent Advances in Microbiology and Biotechnology	UGC	(i) Dr. D.P. Sarkar, Delhi University (ii) Dr. Gouri Shankar Ghosh, University of California (iii) Dr. Utpal Roy Chowdhury, J.U. (iv) Dr. Niranjana Das, Thaper Int. of Technology, Patiala (v) Prof. Subir Kundu, BHU (vi) Dr. Tapas K. Hazra, Univ. of Texas
33. Teaching methods adopted to improve students learning				
a) Power-point based lectures through LCD projector b) Assessment in the form of class test, half-yearly, annual and test examination c) Industrial visit in different types of microbiology based industries				

Year	Date of Excursion	Place of Excursion
2015	26.01.16-01.02.2016	Sikkim
2014	26.12.2013-02.01.2014	Visakhapattanam
2013	28.12.2012-05.01.2013	North Bengal
2012	28.12.2011-04.01.2012	Visakhapattanam
2011	Last week of Dec.' 2010- First week of Jan.' 2011	Ooty/Mysore
2010	-	Puri

34. Participation in Institutional Social Responsibility [ISR] and Extension activities	
<ul style="list-style-type: none"> a) In different activities of NSS b) Students actively participate in all departmental and college activities with keen interest in Microbiology, Nature and Environment 	

35. SWOC analysis of the department and Future Plans	
Strength	<ul style="list-style-type: none"> (i) Student Alumni (ii) Smart Class Room (iii) Quality of teaching through field training, industrial visit, and research projects (iv) Laboratory with modern instruments for regular practical and research
Weakness	<ul style="list-style-type: none"> (i) Space: Classroom, Staff Room, Laboratory (ii) Non-teaching Staff
Opportunities	<ul style="list-style-type: none"> i. Location of the college premises ii. Area (Land) of the college
Challenges	To make a well equipped laboratory so that PG students can do maximum number of hands on experiments and can take small in-house research projects.
Future Plans	<ul style="list-style-type: none"> (i) Increase number of smart class rooms. (ii) Increase number of laboratories with all modern equipments. (iii) Introduction of compulsory in-house research projects and industrial training for PG students.

8. Department of PHYSICS

1. Name of the Department	PHYSICS
2. Year of establishment	1984 UG General 1984 UG Honours
3. Names of Programmes/Coerces offered (UG, PG, M. Phil, Ph. D, Integrated Masters, Integrated Ph. D etc.) Under Graduate (Honours)(UG) & Under Graduate (General)(UG)(For Chemistry(Hons) and Mathematics(Hons))	
4. Name of Interdisciplinary courses and the departments /Units involved	Nil
5. Annual/ semester/ choice based credit system (programme wise) B. Sc. Physics Honours: Annual Examination [Part I, Part II and Part III]	
6. Participation of the department in the courses offered by other departments Physics is offered as a General Subject for Chemistry (Hons.) and Mathematics (Hons.) students	
7. Course in collaboration with other universities, industries, foreign institution, etc.	Nil
8. Details of programmes discontinued, if any, with reasons	Nil

9. Number of teaching posts sanctioned, filled and actual (professors/ Associate Professors/ Asst. Professors/ Others				
Academic Session	Faculty	Sanctioned	Filled	Actual (including CAS & MPS)
2014 – 2015	Professor	Nil		Nil
	Associate Professor	06	06	4*
	Assistant Professor			2
2013-2014	Professor	Nil		Nil
	Associate Professor	06	05	4*
	Assistant Professor			1
2012-2013	Professor	Nil		Nil
	Associate Professor	06	05	4*
	Assistant Professor			1
2011-2012	Professor	Nil		Nil
	Associate Professor	06	06	5*
	Assistant Professor			1
2010 – 2011	Professor	Nil		Nil
	Associate Professor	06	06	5*
	Assistant Professor			1

***Except the post of Professor, all the other posts are those of Assistant Professor, upgraded by Govt. Order due to CAS.*

10. Faculty profile with name, qualification, designation, area of specialization, experience and research under guidance [Academic Session: 2014 – 2015]					
Name	Qualification	Designation	Area of Specialization	Years of experience	No. of Ph. D/ M. Phil. Students guided for the last 4 years
Bimal Kumar Mandal	M.Sc., Ph.D.	Associate Professor (WBES)	Condensed Matter Physics, Electronics	26	Nil
Nirmal Kumar Maiti	M.Sc. M.Phil.	Associate Professor (WBES)	Electronics	25	Nil
Subhasis Chakraborty	M.Sc., Ph.D.	Associate Professor (WBES)	Solid State Spectroscopy	25	Nil
Arun Kumar Jana	M.Sc., Ph.D.	Associate Professor (WBES)	Nuclear Physics	15	Nil
Supriya Chatterjee	M.Sc., M.A.(Edn.), B.Ed., Ph.D.	Assistant Professor (WBES)	Nuclear Physics	6	Nil
Soumyabrata Mondal	M. Sc., Ph. D.	Assistant Professor (WBES)	High Energy Physics	5	Nil

11. List of senior Visiting Faculty	Nil
12. Percentage of lectures delivered and practical classes handled (programme wise) by temporary faculty	Nil

13. Student-Teacher ratio (programme wise)			
Academic Session	Total no of students	Total no of Teachers	Student-Teacher ratio
2014 – 2015	67	6	11:1
2013 – 2014	57	5	11:1
2012 – 2013	49	5	10:1
2011 – 2012	47	6	8:1
2010 – 2011	29	6	5:1

14. Number of academic support staff (technical) and administrative staff, [sanctioned and filled]					
Sanctioned	Filled	Actual	Name of the Employee	Designation	Category
2 (Gr-C)	2	2	Smita Mukhopadhyay	Instrument Keeper	Gr-C
			Sanatan Chatterjee	Laboratory Assistant	Gr-C
3 (Gr-D)	2	2	Ajit Roy	Laboratory attendant	Gr-D
			Shyamal Kumar Sarkar	Laboratory bearer	Gr-D

15. Qualification of Teaching Faculty with D. Sc./ D. Litt./ Ph. D/ M. Phil./ PG	
Highest Qualification	No. of Teaching Faculty [present status]
D. Sc./ D. Litt.	Nil
Ph. D	05
M. Phil	01
PG	00

16. Number of faculty with ongoing projects from a) National b) International funding agencies and grants received	
a) National	01 (one)
b) International funding agencies	Nil
Total grants received	140000/-

17. Departmental projects funded by DST-FIST, UGC, DBT, ICSSR etc. and total grants received [2010 – 2015]			
A] Ongoing Projects			
Project Title	Principal Investigator	Funding Agency	Grants Received (₹)
Some studies on electrification and plasma processes in the solar planetary atmosphere from reception of radio signals and model studies	Soumyabrata Mondal	UGC	140000/-

B] Completed Projects		Nil	
Project Title	Principal Investigator	Funding Agency	Grants Received (₹)
NA			

18. Research Centre/ facility recognized by the University	NA

19. Publications [2010 – 2015]												
[Detailed list of publication are in Annexure- I]												
Total no. of Publication											20	
National Journals											04	
International journals											14	
Conference Proceedings Paper											01	
Faculty	No. of papers published in peer reviewed journals (National and international)	No. of publication listed in	Monographs	Chapter in Books	Books edited	Books with ISBN/ ISBN	Citation Index	SNIP	SJR	Impact factor	h-index	
Ranjan Kumar Ghosh [retired on 31 st August,2015]	2											
Bimal Kumar Mandal	2											
Nirmal Kumar Maiti	0											
Subhasis Chakraborty	0											
Arun Kumar Jana	0											
Supriya Chatterjee	7											
Soumyabrata Mondal	8			1								

20. Areas of consultancy and income generated	Nil
21. Faculty as members in	
a) National Committees	
b) International Committees	
c) Editorial Board	01

Faculty	Committee
Bimal Kumar Mandal	SYLLABUS MODIFICATION COMMITTEE, WBSU
Nirmal Kumar Maiti	
Subhasis Chakraborty	
Arun Kumar Jana	BOARD OF STUDIES, WBSU
Supriya Chatterjee	
Soumyabrata Mondal	Editorial board, Civil Engineering and Urban Planning: An International Journal (CiVEJ)

22. Student projects	NA
a) Percentage of students who have done in-house projects including inter departmental/ programme	NA
b) Percentage of students placed for projects in organizations outside the institution i.e., research laboratories/ Industry/ other agencies	NA

23. Awards/ Recognition received by Faculty and Students	
• Faculty	
Supriya Chatterjee	Awarded Ph. D from Visva Bharati , Santiniketan
Soumyabrata Mondol	Awarded Ph. D from University of Kalyani, Nadia
• Students	
Madhusudan Ghosh	Participated and got 3 rd Prize in debate in ABP Anada.

24. List of eminent Academicians and Scientist/ Visitors to the department	
Prof. Ashoke Sen Prof. Palash Baran Pal	2013

25. Seminars/ Conferences/ Workshops organized & the source of funding	
i) National	01
j) International	Nil

Seminar Topic	Level	Funding Agency	Date	Collaboration
Recent Advances in the Frontiers of Physics	National	UGC	14/09/2013	Nil

26. Student profile programme/ course wise						
Name of the course/ programme [Physics Honours]	Application received	Selected	Enrolled		Pass percentage	
			Male	Female		
2014 – 2015	550	29	19	10	100	
2013 – 2014	602	31	26	5	100	
2012 – 2013	611	33	27	06	100	
2011 – 2012	531	26	20	06	100	
2010 - 2011	525	16	11	05	100	

27. Diversity of Students			
Name of the Course [Botany Honours]	% of students from the same State	% of students from the other States	% of students abroad
2014 – 2015	100	0	0
2013 – 2014	100	0	0
2012 – 2013	100	0	0
2011 – 2012	100	0	0
2010 – 2011	100	0	0

28. How many students have cleared National and state competitive examinations such as NET, SLET, GATE, Civil Service, Defence Service etc.	Not applicable since the Department only provide UG degree
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29. Student progression	Percentage against enrolled in Academic Session				
	2014 - 2015	2013-2014	2012-2013	2011-2012	2010 – 2011
UG to PG	10	6	7	3	4
PG to M.Phil.	NA	NA	NA	NA	NA
PG to Ph.D	NA	NA	NA	NA	NA
Ph.D. to Post-Doctoral	NA	NA	NA	NA	NA
Employed					
• Campus selection					
• Other than campus recruitment					
Entrepreneurship/ Self-employed					

Name of the Service	No. of students selected [2010 – 2015]
Central Government Service	Data not available
State Government Service	Data not available
School Service Commission	Data not available
Bank and related service	Data not available
Railway Service	Data not available
Insurance Service	Data not available
Private sector	Data not available

30. Details of Infrastructural facilities

iii) Library	The department has a well-stocked Seminar Library with 500 books. Students are allowed to borrow books fortnightly
iv) Internet facilities for Staff & Students	HOD room and Staff room are LAN connected with internet facilities. Facilities are also provided to students as and when required.
v) Class room with ICT facility	Two theory class rooms: One UGC-sponsored SMART class room yet to operative, use of LCD projector in seminar and class room teaching
vi) Laboratories	Five laboratories cum theory class rooms One General Laboratory
vii) Experimental garden	Nil
viii) Instrumentation facility	Department is equipped with a number of instruments for students routine practical class as well as research study. Some of the important instruments are presented below: <ul style="list-style-type: none"> • Spectrometer • Cathode Ray Oscilloscope • Function Generator

31. Number of students receiving financial assistance from College, University, Government or other agencies

Session	Type of financial assistance		No. of students receiving financial assistance		
	Govt	Pvt	Total	Male	Female
2014 – 2015	Merit cum- Means, Inspire, Kanyasree etc [Govt]	S.R.Jindal [Pvt]	12	8	4
2013 – 2014	Merit cum- Means, Inspire, Kanyasree etc [Govt]	S.R.Jindal [Pvt]	21	17	4
2012 – 2013	Merit cum- Means, Inspire, etc [Govt]	S.R.Jindal [Pvt]	18	15	3
2011 – 2012	Merit cum- Means, Inspire, etc [Govt]	S.R.Jindal [Pvt]	15	12	3
2010 – 2011	Merit cum- Means, Inspire, etc [Govt]	S.R.Jindal [Pvt]	8	7	1

32. Details of students enrichment programmes (special lecture/ workshops/ seminar) with external experts Nil				
Programme	Year	Title	Funding agency	External Experts / Resource Persons
NA				

33. Teaching methods adopted to improve students learning
a) Power-point based lectures through LCD projector b) Assessment in the form of class test, half-yearly, annual and test examination

Year	Date of Excursion	Place of Excursion
Nil		

34. Participation in Institutional Social Responsibility [ISR] and Extension activities
a) In different activities of NSS b) Students actively participate in all departmental and college activities with keen interest in Nature and Environment

35. SWOC analysis of the department and Future Plans	
Strength	<ul style="list-style-type: none"> • Well equipped laboratory facility. • Well equipped Departmental Seminar Library • Experienced and Qualified faculty members
Weakness	<ul style="list-style-type: none"> • Lack of cutting edge teaching aids • Lack of modern computer lab. • Lack of proper financial support
Opportunities	<ul style="list-style-type: none"> • The students graduating from Bidhannagar College are getting admitted in M.Sc. , I.T., Engineering and other important courses in different I.I.T's, Universities and other Research Institutes of International repute. • Seminar library and internet facility. • Scope for research facility.
Challenges	<ul style="list-style-type: none"> • To make the Academic performance & other activities of the department excellent and up to date in every respect
Future Plans	<ul style="list-style-type: none"> • Physics Department of the College is planning to introduce the Post Graduation Course in Physics with the prior permission from Govt. of West Bengal under West Bengal State University.

9. Department of STATISTICS

1. Name of the Department	STATISTICS
2. Year of establishment	1986- UG General 1999- UG Honours
3. Names of Programmes/Courses offered (UG, PG, M. Phil., Ph. D, Integrated Masters, Integrated Ph. D etc.) Under Graduate (Honours and General)	
4. Name of Interdisciplinary courses and the departments /Units involved	Nil
5. Annual/ semester/ choice based credit system (programme wise) B. Sc. Statistics Honours: Annual Examination [Part I, Part II and Part III] B. Sc. Statistics General: Annual Examination [Part I and Part II]	
6. Participation of the department in the courses offered by other departments	Nil
7. Course in collaboration with other universities, industries, foreign institution, etc.	Nil
8. Details of programmes discontinued, if any, with reasons	Nil

9. Number of teaching posts sanctioned, filled and actual (Professors/ Associate Professors/ Asst. Professors/ Others)				
Academic Session	Faculty	Sanctioned	Filled	Actual (including CAS & MPS)
2014 – 2015	Professor	Nil	--	Nil
	Associate Professor	05	05	03*
	Assistant Professor			02
2013-2014	Professor	Nil	--	Nil
	Associate Professor	04	02	02*
	Assistant Professor			
2012-2013	Professor	Nil	--	Nil
	Associate Professor	04	03	03*
	Assistant Professor			
2011-2012	Professor	Nil	--	Nil
	Associate Professor	04	03	03*
	Assistant Professor			
2010 – 2011	Professor	01	01	01
	Associate Professor	04	03	03*
	Assistant Professor			

*Except the post of Professor, all the other posts are those of Assistant Professor, upgraded by Govt. Order due to CAS.

10. Faculty profile with name, qualification, designation, area of specialization, experience and research under guidance [Academic Session: 2014 – 2015]					
Name	Qualification	Designation	Area of Specialization	Years of Experience	No. of Ph. D/ M. Phil. Students guided for the last 4 years
Dr. Ajoy Kumar Biswas	M.Sc., Ph.D.	Associate Professor (WBES)	Design of Experiments & Econometrics	25	Nil
Sri Arup Kumar Hait	M.Sc.	Associate Professor (WBES)	Design of Experiments & Econometrics	25	Nil
Kiranmoy Chatterjee	M.Sc.	Assistant Professor (WBES)	Time Series, Econometrics, Applied Multivariate	< 2	Nil
Suryasish Chatterjee	M.Sc.	Assistant Professor (WBES)	Advanced Statistical Inference	< 2	Nil

11. List of senior Visiting Faculty	Nil
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12. Percentage of lectures delivered and practical classes handled (programme wise) by temporary faculty	Nil
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13. Student-Teacher ratio (programme wise)			
Academic Session	Total no of students	Total no of Teachers	Student-Teacher ratio
2014 – 2015	31	05	6:1
2013 – 2014	27	02	13:1
2012 – 2013	36	03	12:1
2011 – 2012	32	03	11:1
2010 – 2011	34	04	8:1

14. Number of academic support staff (technical) and administrative staff, [sanctioned and filled]					
Sanctioned	Filled	Actual	Name of the Employee	Designation	Category
01	01	01	Rajen Chowdhury	Lab Bearer	Group- D

15. Qualification of Teaching Faculty with D. Sc./ D. Litt./ Ph. D/ M. Phil./ PG	
Highest Qualification	No. of Teaching Faculty [present status]
D. Sc./ D. Litt.	Nil
Ph. D	01
M. Phil	Nil
PG	04

16. Number of faculty with ongoing projects from a) National b) International funding agencies and grants received	
a) National	Nil
b) International funding agencies	Nil
Total grants received	Nil

17. Departmental projects funded by DST-FIST, UGC, DBT, ICSSR etc. and total grants received [2010 – 2015]			
A] Ongoing Projects			
Project Title	Principal Investigator	Funding Agency	Grants Received (₹)
Nil	Nil	NA	NA

B] Completed Projects			
Project Title	Principal Investigator	Funding Agency	Grants Received (₹)
Nil	Nil	Nil	Nil

18. Research Centre/ facility recognized by the University	NA
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19. Publications [2010 – 2015] [Detailed list of publication are in Annexure- I]											
Total no. of Publication										06	
National Journals										Nil	
International journals										06	
Conference Proceedings Paper										Nil	
Books with ISBN/ ISSN										Nil	
Faculty	No. of papers published in peer reviewed journals (National and international)	No. of publication listed in International Database	Monographs	Chapter in Books	Books edited	Books with ISBN/ ISBN	Citation Index	SNIP	SJR	Impact factor	h-index
Dr. Ajoy Kumar Biswas	-	-	-	-	-	-	-	-	-	-	-
Dr. Tapan Kumar Pal	-	-	-	-	-	-	-	-	-	-	-
Sri Arup Kumar Hait	-	-	-	-	-	-	-	-	-	-	-
Sri Kiranmay Chatterjee	04	-	-	-	-	-	-	-	-	1.5	1
Sri Suryasish Chatterjee	01	-	-	-	-	-	-	-	-	0.5	0
Sri Tushar Kanti Ghara	01	-	-	-	-	-	-	-	-	5.12	-

20. Areas of consultancy and income generated	Kiranmoy Chatterjee Reviewer of International Journal - Journal of Statistical Computation and Simulation (Taylor & Francis), 2015
21. Faculty as members in	
a) National Committees	Nil
b) International Committees	Nil
c) Editorial Board	Nil
Faculty	Committee
Dr. Ajoy Kumar Biswas	Member UG Board of Studies of Statistics-WBSU
Sri Arup Kumar Hait	Member UG Board of Studies of Statistics-WBSU

22. Student projects	NA
a) Percentage of students who have done in-house projects including inter departmental/ programme	NA
b) Percentage of students placed for projects in organizations outside the institution i.e., research laboratories/ Industry/ other agencies	NA

23. Awards/Recognition received by Faculty & Students:	
Faculty: Kiranmoy Chatterjee	Travel Grant received from Indian Statistical Institute, Kolkata to present research paper in an International Conference held in Geneva, Switzerland, 2014
Students	Nil

24. List of eminent Academicians and Scientist/ Visitors to the department	Nil
25. Seminars/ Conferences/ Workshops organized & the source of funding	Nil

26. Student profile programme/ course wise					
Name of the course/ programme [Statistics Honours]	Application received	Selected	Enrolled		Pass percentage
			Male	Female	
2014 – 2015	166	19	15	04	100
2013 – 2014	175	12	09	03	100
2012 – 2013	175	17	09	08	100
2011 – 2012	149	10	05	05	100
2010 - 2011	140	12	11	01	100

27. Diversity of Students			
Name of the Course [Statistics Honours]	% of students from the same State	% of students from the other States	% of students abroad
2014 – 2015	100	Nil	Nil
2013 – 2014	100	Nil	Nil
2012 – 2013	100	Nil	Nil
2011 – 2012	100	Nil	Nil
2010 - 2011	100	Nil	Nil

28. How many students have cleared National and state competitive examinations such as NET, SLET, GATE, Civil Service, Defence Service etc.	Not applicable since the Department only provide UG degree
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29. Student progression	Percentage against enrolled in Academic Session				
	2014 –2015	2013-2014	2012-2013	2011-2012	2010 – 2011
UG to PG	83.33	87.5	85.6	62.5	100
PG to M.Phil.	NA	NA	NA	NA	NA
PG to Ph.D.	NA	NA	NA	NA	NA
Ph.D. to Post-Doctoral	NA	NA	NA	NA	NA
Employed	NA	NA	NA	NA	NA
• Campus selection	Nil	Nil	Nil	Nil	Nil
• Other than campus recruitment	Not Available	Not Available	Not Available	Not Available	Not Available
Entrepreneurship/ Self-employed	Not Available	Not Available	Not Available	Not Available	Not Available

Name of the Service	No. of students selected [2010 – 2015]
Central Government Service	02
State Government Service	04
School Service Commission	02
Bank and related service	01
Railway Service	00
Insurance Service	00
Private sector	21

30. Details of Infrastructural facilities	
iii) Library	The department has a well-stocked Seminar Library with 152 books. Students are allowed to borrow books fortnightly
iv) Internet facilities for Staff & Students	Staff room is connected with internet facilities. Facilities are also provided to students as and when required.
v) Class room with ICT facility	Nil
vi) Laboratories	One laboratory cum theory class room
vii) Experimental garden	NA
viii) Instrumentation facility	Enriched computer facilities for practical statistical analysis

31. Number of students receiving financial assistance from College, University, Government or other agencies					
Session	Type of financial assistance		No. of students receiving financial assistance		
	Govt	Pvt	Total	Male	Female
2014 – 2015	Merit cum- Means, SC-ST Post Matric, Kanyasreeetc	S.R.Jindal [Pvt]	4	4	0
2013 – 2014	Merit cum- Means, SC-ST Post Matric, Kanyasreeetc	S.R.Jindal [Pvt]	6	5	1
2012 – 2013	Merit cum- Means, SC-ST Post Matric, etc	S.R.Jindal [Pvt]	9	6	3
2011 – 2012	Merit cum- Means, SC-ST Post Matric, etc	S.R.Jindal [Pvt]	4	2	2
2010 – 2011	Merit cum- Means, SC-ST Post Matric. etc	S.R.Jindal [Pvt]	5	5	0

32. Details of students enrichment programmes (special lecture/ workshops/ seminar) with external experts				
Programme	Year	Title	Funding agency	External Experts / Resource Persons
Nil	NA	NA	NA	NA

33. Teaching methods adopted to improve students learning	
a)	Power-point based lectures through LCD projector
b)	Assessment in the form of class test, half-yearly, annual and test examination

Year	Date of Excursion	Place of Excursion
2015	NA	NA
2014	NA	NA
2013	NA	NA
2012	NA	NA
2011	NA	NA
2010	NA	NA

34. Participation in Institutional Social Responsibility [ISR] and Extension activities	
a) In different activities of NSS	
b) Students actively participate in all departmental and college activities with keen interest in Nature and Environment	

35. SWOC analysis of the department and Future Plans	
Strength	<ul style="list-style-type: none"> • We have well-stocked Departmental Library accessible to all students. • Energetic, academically serious and culturally active students
Weakness	<ul style="list-style-type: none"> • Inadequate number of classrooms • Inadequate number of Computer in Laboratory • Insufficient number of full-time faculties • No post of Technical Staff
Opportunities	<ul style="list-style-type: none"> • Deep student-teacher relationship that helps the students regarding their subject understanding and career selection.
Challenges	<ul style="list-style-type: none"> • The challenge of this department is to help the students appreciate the socio-economic importance of the subject and make it more interesting as a course of study.
Future Plans	<ul style="list-style-type: none"> • Strengthening high-power alumni network • Organizing seminar/workshop in collaboration with West Bengal State University, Indian Statistical Institute and other Higher Education Institutes for the benefit of our students.

10. Department of Zoology

1. Name of the Department		ZOOLOGY		
2. Year of establishment		UG Honours- 1997 PG- 2004		
3. Names of Programmes/Courses offered (UG, PG, M. Phil, Ph. D, Integrated Masters, Integrated Ph. D etc.) Under Graduate (Honours), Under Graduate (General) and Post Graduate				
4. Name of Interdisciplinary courses and the departments /Units involved		Nil		
5. Annual/ semester/ choice based credit system (programme wise) B. Sc. Zoology Honours: Annual Examination [Part I, Part II and Part III] B. Sc. Zoology General: Annual Examination [Part I and Part II] M. Sc in Zoology: Semester-I, II, III, and IV [each semester of 6 months duration]				
6. Participation of the department in the courses offered by other departments Regular participation for taking classes at PG level course by Professors of Botany, Microbiology, Mathematics & Economics Department				
7. Course in collaboration with other universities, industries, foreign institution, etc.		Nil		
8. Details of programmes discontinued, if any, with reasons		Nil		
9. Number of teaching posts sanctioned, filled and actual (professors/ Associate Professors/ Asst. Professors/ Others)				
Academic Session	Faculty	Sanctioned	Filled	Actual (including CAS & MPS)
2014 – 2015	Professor	2	Nil	Nil
	Associate Professor	8	07	5*
	Assistant Professor			2
2013-2014	Professor	2	Nil	Nil
	Associate Professor	8	06	06*
	Assistant Professor			Nil
2012-2013	Professor	2	Nil	Nil
	Associate Professor	8	08	08*
	Assistant Professor			Nil
2011-2012	Professor	2	Nil	Nil
	Associate Professor	8	08	6*
	Assistant Professor			2
2010 – 2011	Professor	2	1	1
	Associate Professor	8	07	04*
	Assistant Professor			03

**All base posts are Assistant Professor's post, upgraded by Career Advancement Scheme*

10. Faculty profile with name, qualification, designation, area of specialization, experience and research under guidance [present status]					
Name	Qualification	Designation	Specialization	Years of experience	No. of Ph. D/ M. Phil. Students guided for the last 4 years
Dr. Ranajit Karmakar	M.Sc., Ph.D.	Associate Professor	Cell Biology	15	Nil
Dr. Saurabh Chakraborti	M.Sc., Ph.D.	Assistant Professor	Cytogenetics	15	Nil
Urmi Mitra	M.Sc.	Assistant Professor	Parasitology & Immunology	7	Nil
Dr. Somnath Mondal	M.Sc., Ph.D.	Assistant Professor	Parasitology	7	Nil
Dr. Suman Mukherjee	M.Sc., M.Tech., Ph.D.	Assistant Professor	Parasitology & Biotechnology	6	Nil
Dr. Dip Mukherjee	M.Sc., Ph.D.	Assistant Professor	Parasitology	1	Nil
Mr. Suman Bej	M.Sc.	Assistant Professor	Cell Biology	1	Nil
Mr. Biswatosh Ghosh	M.Sc.	Assistant Professor	Cytogenetics	1	Nil

11. List of visiting Faculty/ Guest lecturer [2010 – 2015]	
Name of Faculty	Topic covered
Dr. Monisha Mukherjee (Retired Part time Faculty)	Genetic Engineering, Hormone Action Microscopy
Dr. Debaprasad Chakraborty (Retired Faculty, Presidency College, Kolkata)	Developmental Biology
Dr. Narayan Chandra Gharai, Associate Professor of Zoology, WBSU	Animal Behavior
Dr. Tushar Mukherjee (Retired Faculty, Presidency College, Kolkata)	Taxonomy, Biodiversity & wildlife
Dr. Lakshmi Kanta Ghosh, Retired Joint Director, ZSI	Taxonomy and Biodiversity
Dr. Madhusudan Ghosal	Biochemistry

12. Percentage of lectures delivered and practical classes handled (programme wise) by temporary faculty			Nil
Academic Session	Lectures delivered [%]	Practical classes handled [%]	
2014 – 2015	15%	5%	
2013 – 2014	15%	5%	
2012 – 2013	18%	0%	
2011 – 2012	18%	0%	
2010 – 2011	18%	0%	

13A. Student-Teacher ratio (Under-Graduate)			
Academic Session	Total no of students	Total no of Teachers	Student-Teacher ratio
2014 – 2015	70	07	10:1
2013 – 2014	56	06	9:1
2012 – 2013	56	08	7:1
2011 – 2012	58	08	7:1
2010 – 2011	56	08	7:1

* PT= Part time teacher, GT= Guest Teacher

13B. Student-Teacher ratio (Post-Graduate)			
Academic Session	Total no of students	Total no of Teachers (Permanent + PT + GT)*	Student-Teacher ratio
2014 – 2015	44	04 + 08 = 12	4:1
2013 – 2014	42	04 + 08 = 12	4:1
2012 – 2013	40	05 + 06 = 11	4:1
2011 – 2012	40	08 + 07 = 15	3:1
2010 – 2011	40	08 + 06 = 14	3:1

* PT= Part time teacher, GT= Guest Teacher

14. Number of academic support staff (technical) and administrative staff, [sanctioned and filled]					
Sanctioned	Filled	Actual	Name of the Employee	Designation	Category
02	01	01	Mr. Sankar Kumar Seal	Lab. Bearer	Gr. D

15. Qualification of Teaching Faculty with D. Sc./ D. Litt./ Ph. D/ M. Phil./ PG	
Highest Qualification	No. of Teaching Faculty [present status]
D. Sc./ D. Litt.	Nil
Ph. D	04
M. Phil	Nil
PG	04

16. Number of faculty with ongoing projects from a) National b) International funding agencies and grants received	
a) National	Nil
b) International funding agencies	Nil
Total grants received	NA

17. Departmental projects funded by DST-FIST, UGC, DBT, ICSSR etc. and total grants received [2010 – 2015]			
A] Ongoing Projects			
Project Title	Principal Investigator	Funding Agency	Grants Received (₹)
Nil			

B] Completed Projects			
Project Title	Principal Investigator	Funding Agency	Grants Received (₹)
Effect of Arsenic on short horned grasshopper in relation to introduce these species as bioindicator	Susanta Nath	UGC	5,81,000
Cellular and Metabolic Interaction of <i>Channa punctatus</i> and Arsenic	Suman Mukherjee	UGC	1,28,000

18. Research Centre/ facility recognized by the University	NA
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19. Publications [2010 – 2015]											
[Detailed list of publication are in Annexure- I]											
Total no. of Publication										72	
National Journals										16	
International journals										48	
Conference Proceedings Paper										0	
Books with ISBN/ ISSN										1	
Faculty	No. of papers published in peer reviewed journals (National and international)	No. of publication listed in International Database	Monographs	Chapter in Books	Books edited	Books with ISBN/ ISBN	Citation Index	SNIP	SJR	Impact factor	h-index
Dr. Ranajit Karmakar	3										
Dr. Susanta Nath	31					01					
Dr. Saurabh Chakraborti	3			01						2.4	
Dr. Suman Mukherjee	9			04		-					
Dr. Somnath Mandal	2									5.3	
Mr. Dip Mukherjee	9									11.26*	
Mr. Suman Bej	1									3.2	
Mr. Biswatosh Ghosh	5	100**		02						6.5*	
Mr. Anup Dutta-Gupta	1										

*Cumulative, **Genbank sequences

20. Areas of consultancy and income generated	Nil
21. Faculty as members in	
a) National Committees	02
b) International Committees	Nil
c) Editorial Board	Nil

22. Student projects	
a) Percentage of students who have done in-house projects including inter departmental/ programme	20% - 25%
b) Percentage of students placed for projects in organizations outside the institution i.e., research laboratories/ Industry/ other agencies	5% - 10%

23. Awards/ Recognition received by Faculty and Students	
• Faculty	
	NA
• Students	
M.Sc. 4 th Sem. students	The poster received first prize

24. List of eminent Academicians and Scientist/ Visitors to the department
25. Seminars/ Conferences/ Workshops organized & the source of funding
a) National funded by UGC
b) International

26A. Student profile programme/ course wise [Zoology Under-Graduate]					
Name of the course/ programme	Application received	Selected	Enrolled		Pass percentage
			Male	Female	
2014 – 2015	1321	26	16	10	100
2013 – 2014	731	27	15	12	100
2012 – 2013	569	32	16	16	100
2011 – 2012	778	25	06	19	100
2010 - 2011	375	25	08	17	100

26B. Student profile programme/ course wise [Zoology Post-Graduate]					
Name of the course/ programme	Application received	Selected	Enrolled		Pass percentage
			Male	Female	
2014 – 2015	326	18	05	13	100
2013 – 2014	294	19	09	10	100
2012 – 2013	280	20	04	16	100
2011 – 2012	112	20	05	15	100
2010 - 2011	207	20	08	12	100

27A. Diversity of Students[Zoology Honours]			
Name of the Course	% of students from the same State	% of students from the other States	% of students abroad
2014 – 2015	100	Nil	Nil
2013 – 2014	100	Nil	Nil
2012 – 2013	100	Nil	Nil
2011 – 2012	100	Nil	Nil
2010 - 2011	100	Nil	Nil

27B. Diversity of Students [Zoology Post-Graduate]			
Name of the Course	% of students from the same State	% of students from the other States	% of students abroad
2014 – 2015	93.33	6.82	0
2013 – 2014	93.33	6.82	0
2012 – 2013	97.56	2.44	0
2011 – 2012	100	0	0
2010 - 2011	97.50	2.50	0

28. How many students have cleared National and state competitive examinations such as NET, SLET, GATE, Civil Service, Defence Service etc.	<u>Exam 2010-2015</u> NET- 14, GATE- 12, WBPS- 02, FCI- 03
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29. Student progression	Percentage against enrolled in Academic Session				
	2014 - 2015	2013-2014	2012-2013	2011-2012	2010 – 2011
UG to PG	80	80	70	75	75
PG to M.Phil.	0	0	10	0	0
PG to Ph.D	30	30	20	20	20
Ph.D. to Post-Doctoral	0	0	0	0	5
Employed	0	25	30	30	50
• Campus selection	0	0	0	0	0
• Other than campus recruitment	0	25	30	30	50
Entrepreneurship/ Self-employed	0	0	0	0	0

Name of the Service	No. of students selected [2010 – 2015]
Central Government Service	01
State Government Service	09
School Service Commission	05
Bank and related service	01
Railway Service	0
Insurance Service	01
Private sector	
Research	

30. Details of Infrastructural facilities	
a) Library	The department has a well stocked Seminar library. Students are allowed to borrow books weekly
b) Internet facilities for Staff & Students	HOD and Staff rooms are LAN connected with internet facilities. Facilities are also provided to students as and when required
c) Class room with ICT facility	3 (Theory) Class rooms + 2 rooms for PG students (Elective papers).
d) Laboratories	2
e) Experimental garden	Nil
f) Instrumentation facility	Department is equipped with a number of instruments for students routine practical glass as well as research work. Some of the important instruments are presented below 1. DNA and Protein Gel Electrophoresis Unit. 2. Camera fitted microscope. 3. Table top Centrifuge. 4. Micro Centrifuge 5. Autoclave 6. BOD incubator. 7. UV-VISSpectrophotometer

31. A. Number of students receiving financial assistance from College, University, Government or other agencies [UG]					
Session	Type of financial assistance		No. of students receiving financial assistance		
			Total	Male	Female
2014 – 2015	Merit cum- Means, Inspire, Kanyasree etc [Govt]	S.R.Jindal [Pvt]	11	7	4
2013 – 2014	Merit cum- Means, Inspire, Kanyasree etc [Govt]	S.R.Jindal [Pvt]	19	11	8
2012 – 2013	Merit cum- Means, Inspire, etc [Govt]	S.R.Jindal [Pvt]	11	4	7
2011 – 2012	Merit cum- Means, Inspire, etc [Govt]	S.R.Jindal [Pvt]	15	2	13
2010 – 2011	Merit cum- Means, Inspire, etc [Govt]	S.R.Jindal [Pvt]	16	5	11

31.B. Number of students receiving financial assistance from College, University, Government or other agencies [PG]					
Session	Type of financial assistance		No. of students receiving financial assistance		
			Total	Male	Female
2014 – 2015	Merit cum- Means, Inspire, Kanyasree etc [Govt]	S.R.Jindal [Pvt]	1	0	1
2013 – 2014	Merit cum- Means, Inspire, Kanyasree etc [Govt]	S.R.Jindal [Pvt]	15	7	8
2012 – 2013	Merit cum- Means, Inspire, etc [Govt]	S.R.Jindal [Pvt]	2	1	1
2011 – 2012	Merit cum- Means, Inspire, etc [Govt]	S.R.Jindal [Pvt]	13	4	9
2010 – 2011	Merit cum- Means, Inspire, etc [Govt]	S.R.Jindal [Pvt]	11	6	5

32. Details of students enrichment programmes (special lecture/ workshops/ seminar) with external experts

Programme	Year	Title	Funding agency	External Experts / Resource Persons
PG Class	2014	Sem- II	Non-Remunerative	Dr. A. Mukherjee Prof, JU
	2015	Sem- III	Non-Remunerative	Dr. A. Mukherjee Prof, JU

33. Teaching methods adopted to improve students learning

- Power-point based lectures through LCD projector.
- Assessment in the form of Class Test, half yearly, annual and test examination
- Field study and Lab visit.

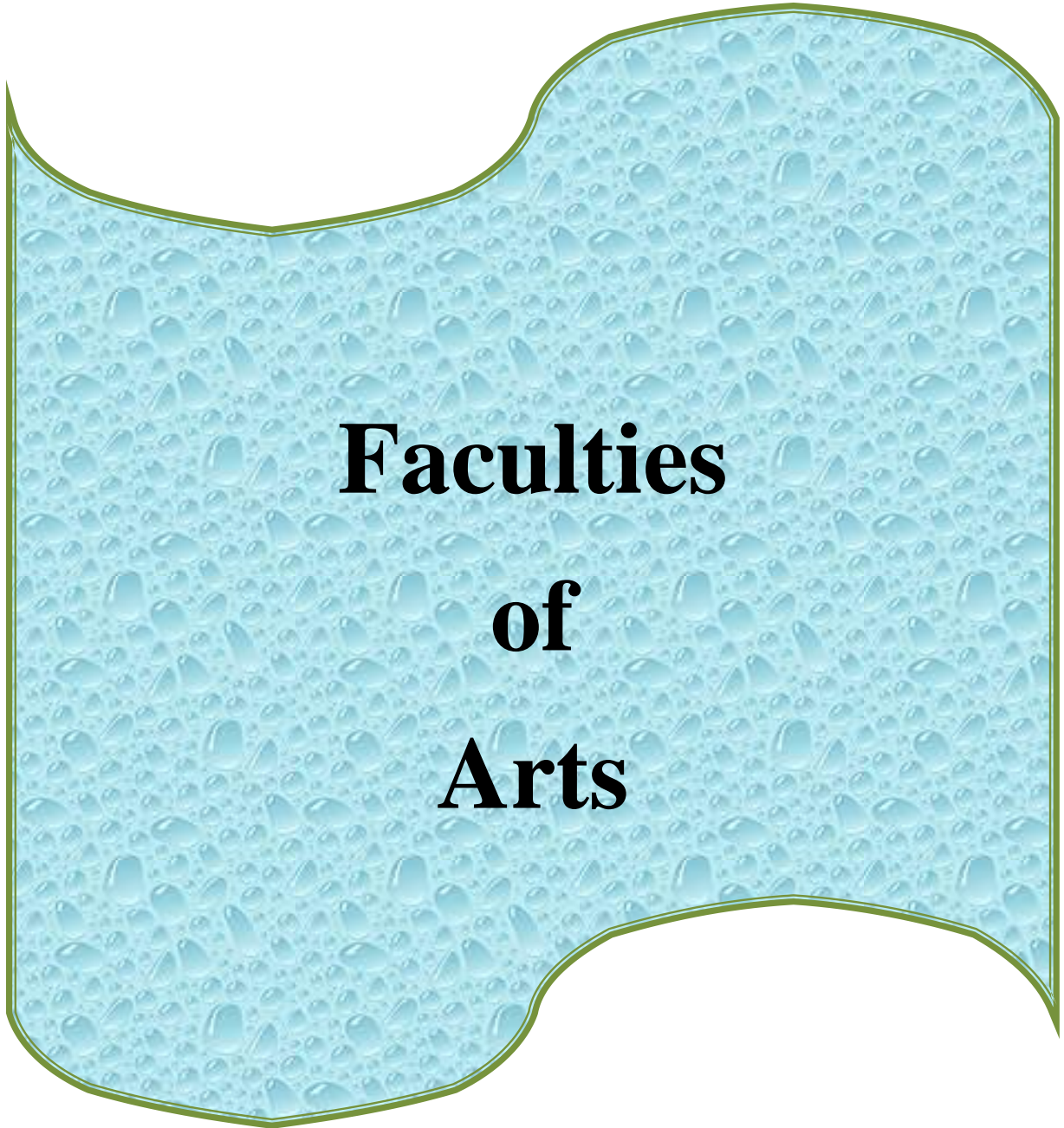
Year	Date of Excursion	Place of Excursion
2015	November	Dooars and Adjoining areas
2014	January & December	Sunderbans & CKBS, WB
2013	January	CKBS, WB
2012	January & May	CKBS, WB & Panchalingeswar, Orissa
2011	January	Mandermoni, WB & Chandipur, Orissa
2010	Decmber	Bakkhali, WB

34. Participation in Institutional Social Responsibility [ISR] and Extension activities

- In different activities of NSS unit of college
- Students actively participate in all departmental and college activities besides NSS, with keen interest in animal life and its activities with the environment.

35. SWOC analysis of the department and Future Plans	
Strength	<ul style="list-style-type: none"> As the college is a Govt. institution, the faculties have been transferred to the different Govt. colleges of W.B., the Dept has fair chance to interact with the new faculties on a regular basis. The faculties of the Govt. College have been recruited by the State Public Service Commission. Minimum qualification for recruitment is generally higher as compared to the Non-Govt. College. So the dept gets better faculties. Participatory interaction between students and teachers. The college has NET coaching centre and departmental teachers regularly take part in this coaching. This type of participation improves the teaching capacity which helps in regular teaching
Weakness	<ul style="list-style-type: none"> Frequent transfer of teaching faculties seriously hampers the class teaching and reserch as well The department have less number of class rooms for M.Sc Sem-I, Sem-II, Sem –III and Sem- IV; Undergraduate- 1st year, 2nd year and 3rd Year Honours course and 1st year and 2nd Year General Couse. More Laboratory is required as well. In this PG and UG Department, the department has only one laboratory attendant. The laboratory infrastructure needs to be improved for carrying out regular laboratory work and research work. This is a serious weakness. For Post Graduate students the department cannot continue the same elective papers in Semester III and Semester IV for many years because of the transfer policy. For this the Department had to introduce one / two new Elective papers in every 2 or 3 years without adequate laboratory support.
Opportunities	<ul style="list-style-type: none"> Provision of e-classroom is present in the Department which is partly installed. It needs to be fully installed. As the college is situated in the city, the Departmental teachers can interact with the faculties of surrounding other colleges at ease for improvement of class teaching and research. As the faculties have research experience for yaers, collaborative work at National and International level can be undertaken.
Challenges	<ul style="list-style-type: none"> Finishing the syllabus for different classes with proper care sometimes become a challenge because of continuous change in faculty pattern. Although the college is situated in the city, most of the students are from remote areas. Sometimes they are first generation learners. . So it is our big challenge to orient the student as per the need of the time. The undergraduate students always try to go for service in school immediately after finishing graduation. Our challenge is to make them think in different way for higher study.
Future Plans	<ul style="list-style-type: none"> Organise National and International seminars/symposia on regular basis.

	<ul style="list-style-type: none">• The department has to organise dissertation work for the students of Post Graduate 3rd and 4th Semester. Students are to submit Project / Review work on elective paper only. The department has plan to initiate Project / Review work from 1st Semester class and for General paper also.• As the animal behaviour is a major component of modern zoology syllabus, the department has plan is to introduce the study of animal behaviour in their practical classes specially for PG students at least one study in each year i.e. One study for 1st and 2nd semester and another study for 2nd and 3rd semester.
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**Faculties
of
Arts**

11. Department of Bengali

1. Name of the Department		BENGALI		
2. Year of establishment		1984		
3. Names of Programmes/Courses offered (UG, PG, M. Phil, Ph. D, Integrated Masters, Integrated Ph. D etc.) Under Graduate (Honours) and Under Graduate (General)				
4. Name of Interdisciplinary courses and the departments /Units involved		Nil		
5. Annual/ semester/ choice based credit system (programme wise) B. A. Bengali Honours: Annual Examination [Part I, Part II and Part III] B. A Bengali General: Annual Examination [Part I & Part II]				
6. Participation of the department in the courses offered by other departments Bengali is offered as a General Subject for all B.A.(Hons.) for other B.A (Hons.) students Also engaged in teaching in Environmental Science				
7. Course in collaboration with other universities, industries, foreign institution, etc.		Nil		
8. Details of programmes discontinued, if any, with reasons		NA		
9. Number of teaching posts sanctioned, filled and actual (professors/ Associate Professors/ Asst. Professors/ Others				
Academic Session	Faculty	Sanctioned	Filled	Actual (including CAS & MPS)
2014 – 2015	Professor	-	-	Nil
	Associate Professor	06	06	1*
	Assistant Professor			5
2013-2014	Professor	-	-	Nil
	Associate Professor	06	06	1*
	Assistant Professor			5
2012-2013	Professor	-	-	Nil
	Associate Professor	06	06	1*
	Assistant Professor			5
2011-2012	Professor	-	-	Nil
	Associate Professor	06	06	1*
	Assistant Professor			5
2010 – 2011	Professor	-	-	Nil
	Associate Professor	06	06	1*
	Assistant Professor			5

**Except the post of Professor, all the other posts are those of Assistant Professor, upgraded by Govt. Order due to CAS.*

10. Faculty profile with name, qualification, designation, area of specialization, experience and research under guidance [Academic Session: 2015 – 2016]					
Name	Qualification	Designation	Area of Specialization	Years of experience	No. of Ph. D/ M. Phil. Students guided for the last 4 years
Dr. Uday Sankar Barma	M.A., Ph.D	Associate Professor (WBES)	Novel and Short Stories	32	Nil
Dr. Tapasree Chattopadhyay	M.A., Ph.D;	Associate Professor (WBES)	Linguistics	28	Nil
Dr.Lina Sen	M.A., Ph.D;	Associate Professor (WBES)	Novel and Short Stories	26	Nil
Dr. Sk. Emanul Haque	M.A., Ph.D;	Associate Professor (WBES)	Novel and Short Stories	18	Nil
Jayanta Mistri	M.A, B.Ed, M.Phil;	Associate Professor (WBES)	Novel and Short Stories	12	Nil
Dr. Lipika Saha	M.A, B.Ed,, Ph.D	Assistant Professor (WBES)	Linguistics	12	Nil

11. List of senior Visiting Faculty	Nil
12. Percentage of lectures delivered and practical classes handled (programme wise) by temporary faculty	Nil

12. Percentage of lectures delivered and practical classes handled (programme wise) by temporary faculty				
Academic Session	Nil	-	-	-

13. Student-Teacher ratio (programme wise)			
Academic Session	Total no of students	Total no of Teachers	Student-Teacher ratio
2014 – 2015	51	6	8:1
2013 – 2014	59	6	10:1
2012 – 2013	67	6	11:1
2011 – 2012	83	6	14:1
2010 – 2011	80	6	13:1

14. Number of academic support staff (technical) and administrative staff, [sanctioned and filled]					
Sanctioned	Filled	Actual	Name of the Employee	Designation	Category
nil	nil	Nil			

15. Qualification of Teaching Faculty with D. Sc./ D. Litt./ Ph. D/ M. Phil./ PG	
Highest Qualification	No. of Teaching Faculty [present status]
D. Sc./ D. Litt.	Nil
Ph. D	05
M. Phil	01
PG	Nil

16. Number of faculty with ongoing projects from a) National b) International funding agencies and grants received	
a) National	1
b) International funding agencies	
Total grants received	

17. Departmental projects funded by DST-FIST, UGC, DBT, ICSSR etc. and total grants received [2010 – 2015]			
A] Ongoing Projects			
Project Title	Principal Investigator	Funding Agency	Grants Received (₹)
Abadhut : Jiban O Sahitya	Jayanta Mistri	UGC- Minor Research Project	Rs. 1, 07000/- (one lakh seven thousand only.)
B] Completed Projects			
Project Title	Principal Investigator	Funding Agency	Grants Received (₹)
Bangla Probade Sekaler Narir Sachetana O Bartaman Prekshit (Ancient Women's consciousness in the Bengali Maxims: A Contemporary Perspective.)	Lina Sen	UGC- Minor Research Project	Rs. 20,000/-only (Rupees Twenty thousand only)

18. Research Centre/ facility recognized by the University	NA

19. Publications [2010 – 2015] [Detailed list of publication are in Annexure- I]											
Total no. of Publication											42
National Journals											19
International journals											12
Conference Proceedings Paper											
Books with ISBN/ ISSN											11
Faculty Name	No. of papers published in peer reviewed journals (National and international)	No. of publication listed in International Database	Monographs	Chapter in Books	Books edited	Books with ISBN/ ISSN	Citation Index	SNIP	SJR	Impact factor	h-index
Dr. Uday Sankar Barma	11					3					
Dr. Tapasree Chattopadhyay											
Dr.Lina Sen	8					1					
Dr. Sk. Emanul Haque	2				1	2					
Jayanta Mistri	2			2							
Dr. Lipika Saha	8					2					

20. Areas of consultancy and income generated	Nil
21. Faculty as members in	
National Committees	02
International Committees	0
Editorial Board	1

Faculty	Committee
Dr. Uday Sankar Barma	Paper Setter, Examiner and Chief of the Viva-vocie Board for the Departmental Examinations for the I.A.S. &W,B.C.S(Executive) Officers, 2014, Member Governing body of Bidhannagar College
Dr. Taposree Chatterjee	Member,Board of Studies,W.B.S.University2011-14
	Member,Governing Body,Rahara Ramkrishna Mission College
Dr. Lina Sen	
	Editor 'Bethune College Patrika', 2009-2012
	Member of Advisory Committee: Nehru Yuba Kendra, 2010-2012
	Member of Advisory Committee: N.S.S. University of Calcutta, 2010-2012
	Member of Board of Studies: Netaji Subhas Open University, 2007
	Guest Lecturer – Annamalai University, In collaboration with Brahmakumaris, Education Wing

22. Student projects	NA
Percentage of students who have done in-house projects including inter departmental/ programme	NA
Percentage of students placed for projects in organizations outside the institution i.e., research laboratories/ Industry/ other agencies	NA

23. Awards/ Recognition received by Faculty and Students	
Faculty	Nil
Students	Nil

24. List of eminent Academicians and Scientist/ Visitors to the department		
Resource Person	Date	Topic
Tarun Sanyal	21/9/2013	Protest in Bengali Poetry
Dr. Amalendu Chakroborty	21/9/2013	Protest in Bengali Poetry
Pratul Mukhopadhyay	20/9/2013	Protest in Bengali Poetry
Yashodhara Roychowdhury	21/9/2013	Protest in Bengali Poetry
Sankha Ghosh	9/2/2012	Tagore's relevance in the Modern World
Rabiranjana Chatterjee	9/2/2012	Tagore's relevance in the Modern World
Biswabandhu Bhattacharya	10/2/2012	Tagore's relevance in the Modern World

25. Seminars/ Conferences/ Workshops organized & the source of funding	
National funded by UGC	02
International	Nil

Seminar Topic	Level	Funding Agency	Date	Collaboration
Bangla Kabitay Pratibad (Protest in the Bengali Poetry)	National	UGC	20-21 Sept, 2013	Nil
Rabindranath O Samakalin Prasanga	National	UGC	09-10 Feb. 2012	Nil

26. Student profile programme/ course wise [Bengali Honours]					
Name of the course/ programme	Application received	Selected	Enrolled		Pass percentage
			Male	Female	
2014 – 2015	115	23	08	15	100
2013 – 2014	197	27	08	19	100
2012 – 2013	163	22	10	12	100
2011 – 2012	112	24	07	17	100
2010 - 2011	525	33	09	24	100

27. Diversity of Students			
Name of the Course [Bengali Honours]	% of students from the same State	% of students from the other States	% of students abroad
2014 – 2015	100	NIL	NIL
2013 – 2014	100	NIL	NIL
2012 – 2013	100	NIL	NIL
2011 – 2012	100	NIL	NIL
2010 - 2011	100	NIL	NIL

28. How many students have cleared National and state competitive examinations such as NET, SLET, GATE, Civil Service, Defence Service etc.	Not applicable since the Department only provide UG degree
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29. Student progression	Percentage against enrolled in Academic Session				
	2014 - 2015	2013-2014	2012-2013	2011-2012	2010 - 2011
UG to PG	64.28	75	69	73	53
PG to M.Phil.	NA	NA	NA	NA	NA
PG to Ph.D	NA	NA	NA	NA	NA
Ph.D. to Post-Doctoral	NA	NA	NA	NA	NA
Employed	Data Unavailable	Data Unavailable	Data Unavailable	Data Unavailable	Data Unavailable
• Campus selection	NIL	NIL	NIL	NIL	NIL
• Other than campus recruitment	Data Unavailable	Data Unavailable	Data Unavailable	Data Unavailable	Data Unavailable
Entrepreneurship/ Self-employed	Data Unavailable	Data Unavailable	Data Unavailable	Data Unavailable	Data Unavailable

Name of the Service	No. of students selected [2010 – 2015]
Central Government Service	Nil
State Government Service	3
School Service Commission	3
Bank and related service	Nil
Railway Service	Nil
Insurance Service	Nil
Private sector	4

30. Details of Infrastructural facilities	
Library	Departmental Seminar Library having 658 titles. Students can borrow books from this Library.
Internet facilities for Staff & Students	Staff room connected with Internet
Class room with ICT facility	Nil
Laboratories	Not Applicable

31. Number of students receiving financial assistance from College, University, Government or other agencies [Bengali Honours]					
Session	Type of financial assistance		No. of students receiving financial assistance		
	Govt	Pvt	Total	Male	Female
2014 – 2015	Merit cum- Means, SC-ST Post Matric, Kanyasree etc [S.R.Jindal	7	1	6
2013 – 2014	Merit cum- Means, SC-ST Post Matric, Kanyasree etc	S.R.Jindal	20	7	13
2012 – 2013	Merit cum- Means, SC-ST Post Matric, etc	S.R.Jindal	14	6	8
2011 – 2012	Merit cum- Means, SC-ST Post Matric, etc	S.R.Jindal	20	6	14
2010 – 2011	Merit cum- Means, SC-ST Post Matric, etc	S.R.Jindal	26	7	19

32. Details of students enrichment programmes (special lecture/ workshops/ seminar) with external experts				
Programme	Year	Title	Funding agency	External Experts / Resource Persons
Nil				

33. Teaching methods adopted to improve students learning		
Special classes and Tutorial classes are taken regularly. Sometimes audiovisual equipments are used for better understanding and appreciation.		
Year	Date of Excursion	Place of Excursion
2015	Nil	Nil
2014	Nil	Nil
2013	Nil	Nil
2012	Nil	Nil
2011	Nil	Nil
2010	Nil	Nil

34. Participation in Institutional Social Responsibility [ISR] and Extension activities

Some faculty members have contributed in the field of Bengali literature by writing books and organising different festivals such as Baisakhi Mela, Bhasha Dibash etc.

Students actively engaged in NSS

35. SWOC analysis of the department and Future Plans

Strength	The department of Bengali has a very good faculty. The library has a rich collection in the subject area.
Weakness	The department is in dire need of more classrooms and rooms for faculty members.
Opportunities	Students of the department of Bengali have opportunities in the field of editorship, journalism and mass communication as well as in other media specific careers.
Challenges	To overcome the problems of inadequate classrooms, to make aware of the importance of studying the mother tongue and vernacular literature.
Future Plans	After shifting the classes in the new building it seems the problem regarding the lack of classrooms will be resolved. As such, eminent scholars would be invited for talks and lectures. Digital tools and technologies would be used for the dissemination of knowledge and the management of course materials relevant to the syllabus.

12. Department of Education

1. Name of the Department	EDUCATION
2. Year of establishment	2008
3. Names of Programmes/ Courses offered (UG, PG, M. Phil, Ph. D, Integrated Masters, Integrated Ph. D etc.) Under Graduate (Honours)	
4. Name of Interdisciplinary courses and the departments /Units involved	Nil
5. Annual/ semester/ choice based credit system (programme wise) B. A. Education Honours: Annual Examination [Part I, Part II and Part III]	
6. Participation of the department in the courses offered by other departments:	Nil
7. Course in collaboration with other universities, industries, foreign institution, etc.	Nil
8. Details of programmes discontinued, if any, with reasons	Nil

9. Number of teaching posts sanctioned, filled and actual (professors/ Associate Professors/ Asst. Professors/ Others				
Academic Session	Faculty	Sanctioned	Filled	Actual (including CAS & MPS)
2014 – 2015	Professor	-	-	Nil
	Associate Professor	06	04	2*
	Assistant Professor			2
2013-2014	Professor	-	-	Nil
	Associate Professor	06	02	02*
	Assistant Professor			Nil
2012-2013	Professor	-	-	Nil
	Associate Professor	06	02	02*
	Assistant Professor			Nil
2011-2012	Professor	-	-	Nil
	Associate Professor	06	01	1*
	Assistant Professor			Nil
2010 – 2011	Professor	-	-	Nil
	Associate Professor	06	01	1*
	Assistant Professor			Nil

**Except the post of Professor, all the other posts are those of Assistant Professor, upgraded by Govt. Order due to CAS.*

10. Faculty profile with name, qualification, designation, area of specialization, experience and research under guidance [Academic Session: Present Status]					
Name	Qualification	Designation	Area of Specialization	Years of experience	No. of Ph. D/ M. Phil. Students guided for the last 4 years
Purnendu Acharya	M.A.	Associate Professor [WBES]	Mental hygiene & Personality	28 years	Nil
Shoumyasree Sen	M.A., M.A.D.E., Ph.D.	Associate Professor [WBES]	Distance Education, Educational Administration & Planning	28 Years	Nil
Sahanowas Sk.	M.A., M.Phil., B.Ed.	Assistant Professor [WBES]	Education of Special Child, Educational Psychology, Educational Evaluation & Measurement	□ 1 year	Nil
Priyanka Datta	M.A., M. Phil., B.Ed.	Assistant Professor [WBES]	Educational Psychology, Teacher Education, History of Education, Education of Children with Special Needs	□ 2 years	Nil
Shikha Roy	M.A., M.Phil. B.Ed.,	Assistant Professor [WBES]	Evaluation in Education & Educational Management, Educational Policy, Planning & Management, Teaching & Teacher Education, Educational Psychology	□ 1 years	Nil
Zeba Jahan	M.A., M.Phil., B.Ed.	Permanent Part-Time Teacher	Teacher Education & Special Education	6 years	Nil

11. List of visiting Faculty/ Guest lecturer [2010 – 2015]	
Name of Faculty	Topic covered
Zeba Jahan (Permanent Part-Time Teacher)	<p>Intelligence & Creativity, Introduction to Pedagogy, Psychology of Learning, Pedagogy of Teaching-Learning, Critical Pedagogy, Development of Education from 1947-1970, Traditional & Current Educational Issues, Statistics & Evaluation in Education, Criteria of Standardized Test (2014-2015).</p> <p>Intelligence & Creativity, Psychology of Learning, Pedagogy as the Science of Teaching, Capability Pedagogy, Education Commissions (1948-1949), (1952-1953), (1964-1966), Society & Education, Contemporary Social Issues, Statistics in Education, Evaluation techniques, Criteria of Standardized Test (2013-2014)</p> <p>Types & Significance of Development in Education, Memory & Learning, Intelligence, Events relating Education from 1757 to 1947, Education & Social Communication, Statistics in Education, Educational Measurement & Evaluation, Criteria of Standardized Test.(2012-2013)</p> <p>Educational Measurement & Evaluation, Criteria of Standardized Test, System Approach to Education, Communication & Educational Technology, Computer & its role in Education, Models of Teaching, System Approach to Curriculum, Curriculum Evaluation.(2011-2012)</p> <p>Introduction to Psychology, Personality & Moral Development, Intelligence, Perception & Learning, Current Issues in Education, Education Commissions (1948-1949), (1952-1953), (1964-1966), Sociological Foundation of Education, Contemporary Social Issues, Statistics and its uses.(2010-2011)</p>
Sanghamitra Som (Guest Lecturer)	Education as propagation of values, Attention & Motivation, Sociological Foundations of Education, Social Change & Education, Concept of Guidance, Models of Teaching , Computer & its role in Education (2012-2013).
Puja Banerjee (Guest Lecturer)	Bertrand Russell, Neural Basis of Cognition, Constitutional Provisions for Education in India, Comparative Education & its concept, meaning & scope, School Education in UK & India (2012-2013).
Sutapa Bose (Guest Lecturer)	<p>Concept & Scope of Education, National Values & Role of Education, Culture & Education, Agencies of / Hierarchy in Educational Management, Social issues, Educational Measurement, Computer & its role in Education, Models of Teaching, Determinants of content selection, Bruner's Theory, School Education in UK & India (2014-2015)</p> <p>Concept & Scope of Education, National Values & Role of Education, Culture & Education, Critical Pedagogy, National Policy on Education (1986), Social Groups & Education, Aspects of School Education, Educational Measurement, Computer & its role in Education, Bloom's Taxonomy, Determinants of content selection, Bruner's Theory(2013-2014)</p>
Subhankar Ghosh (Guest Lecturer)	Introduction to Educational Sociology, Education & Social Development, Pedagogy of Teaching-Learning, Pedagogy vs. Andragogy, Education & Social Communication, Social Change & Education, Principles of Educational Organization, Comparative Education (concept, meaning & scope), School Education in UK & India (2013-2014)

12. Percentage of lectures delivered and practical classes handled (programme wise) by temporary faculty				
Academic Session	Theory, Part-I	Theory, Part-II	Theory Part-III	Practical Part-III
2014 – 2015	31	35	24	22
2013 – 2014	28	33	24	20
2012 – 2013	28	27	36	18
2011 – 2012	22	26	42	22
2010 – 2011	24	28	NA	NA

13. Student-Teacher ratio (programme wise)			
Academic Session	Total no of students	Total no of Teachers	Student-Teacher ratio
2014 – 2015	34	5	7:1
2013 – 2014	33	4	8:1
2012 – 2013	35	5	7:1
2011 – 2012	31	5	6:1
2010 – 2011	38	5	8:1

14. Number of academic support staff (technical) and administrative staff, [sanctioned and filled]					
Sanctioned	Filled	Actual	Name of the Employee	Designation	Category
Nil	Nil	Nil	Nil	Nil	Nil

15. Qualification of Teaching Faculty with D. Sc./ D. Litt./ Ph. D/ M. Phil./ PG	
Highest Qualification	No. of Teaching Faculty [present status]
D. Sc./ D. Litt.	Nil
Ph. D	01
M. Phil	04
PG	01

16. Number of faculty with ongoing projects from a) National b) International funding agencies and grants received	
a) National	Nil
b) International funding agencies	Nil
Total grants received	Nil

17. Departmental projects funded by DST-FIST, UGC, DBT, ICSSR etc. and total grants received [2010 – 2015]			
A] Ongoing Projects			
Project Title	Principal Investigator	Funding Agency	Grants Received (₹)
Nil	Nil	Nil	Nil
B] Completed Projects			
Project Title	Principal Investigator	Funding Agency	Grants Received (₹)
Nil	Nil	Nil	Nil
18. Research Centre/ facility recognized by the University			NA

19. Publications [2010 – 2015]											
[Detailed list of publication are in Annexure- I]											
Total no. of Publication										08	
National Journals										01	
International journals										NIL	
Conference Proceedings Paper										05	
Books with ISBN/ ISSN										01	
Faculty	No. of papers published in peer reviewed journals (National and international)	No. of publication listed in International Database	Monographs	Chapter in Books	Books edited	Books with ISBN/ ISSN	Citation Index	SNIP	SJR	Impact factor	h-index
Shoumyasree Sen	-	-	-	-	-	01	-	-	-	-	-
Purnendu Acharya						01					
Priyanka Datta		-	-	-	-	-	-	-	-	-	-
Shikha Roy	01	-	-	-	-	-	-	-	-	-	-

20. Areas of consultancy and income generated	Nil
21. Faculty as members in	
National Committees	02
International Committees	
Editorial Board	02

Faculty	Committee
Shoumyasree Sen	1. Former-Member, Executive Council, Netaji Subhash Open University (2004-2006), 2. Former-Member, Board of Studies, Vidyasagar University (1991-2006) & Kalyani University (2002-2006), 3. Co-ordinator, NSOU, Haldia Govt. College, Study Centre (2001-2006), 4. Life Member, Vashista Institute for North Bengal & North East Developmental Studies, West Bengal 5. Life Member, Indian Institute of Mother & Child Welfare, Behala, Kolkata.
Purnendu Acharya	1. Ex Member of NCTE 2. Ex Member, Board of Studies, Vidyasagar University (1991-2005),

22. Student projects	NA
Percentage of students who have done in-house projects including inter departmental/ programme	NA
Percentage of students placed for projects in organizations outside the institution i.e., research laboratories/ Industry/ other agencies	NA

23. Awards/Recognition received by Faculty & Students:	
Faculty	
1. Sahanowas Sk.	Maulana Azad National Fellowship (2013-2014)
2. Shikha Roy	Rajiv Gandhi National Fellowship (2010-2011)
Students	
1. Sunanda Ghosh (2014-2017)	1. Won 1 st Prize in Western Solo Dance and 2. Won 2 nd Prize in Street Play in 2015 in a Competition organised by the National Institute of Fashion Technology, Ministry of Textiles, Govt. of India. 3. Won two 2 nd Prizes in two separate dance forms in a Dance Competition organised by Bidhannagar College, Student Union in 2015.
2. Mahabub Islam (2013-2016)	1. Scored highest among all Arts Faculty, Bidhannagar College in Part II Examination in 2015. 2. Won a Prize for his speech in a Science Exhibition, organised by Banipur Loko Utsav 2014.
3. Bimal Rout (2013-2016)	1. Won 'Match of the Series' Title in a Cricket Tournament organised by Shyamchak village in Midnapore in 2015 2. Won 1 st Prize for his speech on " Vivekananda's Philosophical and Educational Thoughts" organised by the office of DM, Midnapore, 2014.

4. Ajmir Sk. (2013-2016)	Won 2 nd Prize in 400 metre race in Bidhannagar College Sports in 2014.
5. Manik Roy (2013-2016)	1. Won 3 rd Prize in 100 metre race in Bidhannagar College Sports in 2014. 2. Won 3 rd Prize in Long Jump in Bidhannagar College Sports in 2014.
6. B. Etimuni Chakma (2012-2015)	1. Played Badminton at University level in Bihar in 2015 2. Won 1 st Prize in a Fashion Show Contest organised by Fever 104 FM Radio Channel in 2014. 3. Winner in Intra College Table Tennis competition for 3 consecutive years (2014-2013-2012)
7. Students (2011-2014) & Students (2013-2016)	The Department won Cricket Tournament Intra College Premiere Cricket League 2014.
8. Greenson Halder (2011-2014)	1. Won 1 st Prize in 200 metre race and 2 nd Prize in 100 metre race in Bidhannagar College Sports in 2013. 2. Played in the University Cricket team in 2012 and 2013.
9. Debanjana De (2010-2013)	Scored highest among all Arts Faculty, Bidhannagar College in Part I Examination 2011
10. Pravat Pal (2009-2012)	1. Merit Cum Means Scholarship from Govt. of West Bengal. (2013 at PG level) 2. Belur Math Medha Britti from Belur Math (2015 at PG level) 3. OBC Scholarship from Govt. of West Bengal. (2013-2015 at PG level)
11. Debolina Das (2009-2012)	Scored highest among all Arts Faculty, Bidhannagar College in Part III Examination 2012.

24. List of eminent Academicians and Scientist/ Visitors to the department	Nil
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25. Seminars/ Conferences/ Workshops organized & the source of funding	
National funded by UGC	Nil
International	Nil

Seminar Topic	Level	Funding Agency	Date	Collaboration
Nil	-	-	-	-

26. Student profile programme/ course wise [Education Honours]					
Name of the course/ programme	Application received	Selected	Enrolled		Pass percentage
			Male	Female	
2014 – 2015	88	17	10	7	100
2013 – 2014	188	20	10	10	100
2012 – 2013	101	19	9	10	68
2011 – 2012	71	5	3	2	100
2010 - 2011	112	15	4	11	NA

27. Diversity of Students			
Name of the Course [Education Honours]	% of students from the same State	% of students from the other States	% of students abroad
2014 – 2015	100	0	0
2013 – 2014	100	0	0
2012 – 2013	91	9	0
2011 – 2012	100	0	0
2010 - 2011	100	0	0

29. Student progression	Percentage against enrolled in Academic Session*				
	2014 - 2015	2013-2014	2012-2013	2011-2012	2010 – 2011
UG to PG	70	50	100	90	NA
PG to M.Phil.	NA	NA	NA	NA	NA
PG to Ph.D.	NA	NA	NA	NA	NA
Ph.D. to Post-Doctoral	NA	NA	NA	NA	NA
Employed	11	50	0	30	0
• Campus selection	Nil	Nil	Nil	Nil	Nil
• Other than campus recruitment	11	25	0	20	0
Entrepreneurship/ Self-employed	Nil	25	Nil	10	Nil

Name of the Service	No. of students selected [2010 – 2015]*
Central Government Service	0
State Government Service	01
School Service Commission	0
Bank and related service	01
Railway Service	0
Insurance Service	0
Private sector	05

30. Details of Infrastructural facilities	
Library	Common Seminar Library
Internet facilities for Staff & Students	Common Internet connection for faculty members
Class room with ICT facility	Common Class room with ICT facility
Laboratories	NA

31. Number of students receiving financial assistance from College, University, Government or other agencies [Education Honours]					
Session	Type of financial assistance		No. of students receiving financial assistance		
			Total	Male	Female
2014 – 2015	Merit cum- Means, SC-ST Post Matric, Kanyasree etc [Govt]	S.R.Jindal [Pvt]	2	1	1
2013 – 2014	Merit cum- Means, SC-ST Post Matric, Kanyasree etc [Govt]	S.R.Jindal [Pvt]	13	7	6
2012 – 2013	Merit cum- Means, SC-ST Post Matric, etc [Govt]	S.R.Jindal [Pvt]	3	0	3
2011 – 2012	Merit cum- Means, SC-ST Post Matric, etc [Govt]	S.R.Jindal [Pvt]	5	3	2
2010 – 2011	Merit cum- Means, SC-ST Post Matric, etc [Govt]	S.R.Jindal [Pvt]	9	3	6

32. Details of students enrichment programmes (special lecture/ workshops/ seminar) with external experts				
Programme	Year	Title	Funding agency	External Experts / Resource Persons
Nil	-	-	-	-

33. Teaching methods adopted to improve students learning
<ul style="list-style-type: none"> • Tutorial Classes, Class Tests at regular interval, Remedial Classes, Group discussion, Peer teaching • using Audio-visual aids, Debate, Brain storming presentations, Project work, Open air Teaching, Recreational activities (i.e., excursions, co-curricular & cultural activities)

Year	Date of Excursion	Place of Excursion
2015	Nil	NA
2014	Nil	NA
2013	Nil	NA
2012	15 th December 2012	National Deer Park, Gadiara
2011	20 th November 2011	National Museum, Kolkata
2010	28 th January 2010	Nicco Park, Kolkata

34. Participation in Institutional Social Responsibility [ISR] and Extension activities
Students are actively engaged in NSS activities.

35. SWOC analysis of the department and Future Plans	
Strength	Govt. Institute, Financial security, Qualified Faculty, Teacher-Pupil Ratio, Small Departmental Library and 3 Computers with Printer to serve academic purposes of the Department, Regular Parent-Teacher Meeting, Regular class tests, Regular Tutorial classes Regular Departmental Meetings, Regular Student-Teacher interactions outside class room, Extra classes, Co-curricular activities
Weakness	Lack of a well equipped Departmental Library and Reading Room, Departmental Class room, Non-Teaching Staff, Departmental Staff room
Opportunities	Systematic & organized efforts, Inter Departmental Teaching, Seminars & workshops, Educational Excursions Exposure to Educational activities in School (as per requirement of the subject/discipline), Psychological & Educational Guidance & Counselling by Faculty to the Departmental students
Challenges	Lack of enough space, Infrastructure, Student Strength, Technological equipment & Internet facility
Future Plans	Introducing PG course , Smart Class, organizing Seminars /Workshops etc. at National & International level, Faculty exchange programme Departmental Laboratory, Departmental Library with Reading Room, Departmental Publications (Journals), Guidance & Counselling Cell, Departmental Wall Magazine Undertaking Research Activities & Research Projects by Faculty Members Procuring Technological equipments for Academic & Research facilities

13. Department of English

1. Name of the Department	ENGLISH
2. Year of establishment	1984
3. Names of Programmes/Courses offered (UG, PG, M. Phil, Ph. D, Integrated Masters, Integrated Ph. D etc.) Under Graduate (Honours) and Under Graduate (General)	
4. Name of Interdisciplinary courses and the departments /Units involved	Nil
5. Annual/ semester/ choice based credit system (programme wise) B. A. English Honours: Annual Examination [Part I, Part II and Part III] B. A. English General: Annual Examination [Part I and Part II]	
6. Participation of the department in the courses offered by other departments Seminar organised by other departments.	
7. Course in collaboration with other universities, industries, foreign institution, etc.	Nil
8. Details of programmes discontinued, if any, with reasons	NA

9. Number of teaching posts sanctioned, filled and actual (professors/ Associate Professors/ Asst. Professors/ Others				
Academic Session	Faculty	Sanctioned	Filled	Actual (including CAS & MPS)
2014 – 2015	Professor	-	-	Nil
	Associate Professor	06	03	03*
	Assistant Professor		01	0
2013-2014	Professor	-	-	Nil
	Associate Professor	06	03	03*
	Assistant Professor		0	0
2012-2013	Professor	-	-	Nil
	Associate Professor	06	05	05*
	Assistant Professor		0	0
2011-2012	Professor	-	-	Nil
	Associate Professor	06	6	06*
	Assistant Professor		0	0
2010 – 2011	Professor	-	-	Nil
	Associate Professor	06	0	0
	Assistant Professor		0	0

*Except the post of Professor, all the other posts are those of Assistant Professor, upgraded by Govt. Order due to CAS.

10. Faculty profile with name, qualification, designation, area of specialization, experience and research under guidance [Academic Session: 2014 – 2015]					
Name	Qualification	Designation	Area of Specialization	Years of experience	No. of Ph. D/ M. Phil. Students guided for the last 4 years
Tapomay Das	M.A.	Associate Professor [WBES]	Renaissance Poetry	27	Nil
KetakiDatta	M.A., Ph. D.	Associate Professor [WBES]	American Literature	19	Nil
Aniruddha Pal	M.A., M.Phil, Ph.D.	Associate Professor [WBES]	Linguistics	15	Nil
Siddhartha Dey	M.A.	Assistant Professor [WBES]	Post Modern Narratology	1	Nil

11. List of senior Visiting Faculty	Nil
12. Percentage of lectures delivered and practical classes handled (programme wise) by temporary faculty	Nil

13. Student-Teacher Ratio (Programme wise)			
Academic Session	Total no of students	Total no of teachers	Student-teacher ratio
2014 – 2015	81	4	20:1
2013 – 2014	82	3	27:1
2012 – 2013	89	5	18:1
2011 – 2012	91	6	15:1
2010 – 2011	77	6	13:1

14. Number of academic support staff (technical) and administrative staff, [sanctioned and filled]					
Sanctioned	Filled	Actual	Name of the Employee	Designation	Category
Nil	Nil	Nil	NA	NA	NA

15. Qualification of Teaching Faculty with D. Sc./ D. Litt./ Ph. D/ M. Phil./ PG	
Highest Qualification	No. of Teaching Faculty [present status]
D. Sc./ D. Litt.	Nil
Ph. D	02
M. Phil	Nil
PG	02

16. Number of faculty with ongoing projects from a) National b) International funding agencies and grants received	
a) National	Nil
b) International funding agencies	Nil
Total grants received	Nil

17. Departmental projects funded by DST-FIST, UGC, DBT, ICSSR etc. and total grants received [2010 – 2015]			
A] Ongoing Projects			
Project Title	Principal Investigator	Funding Agency	Grants Received (₹)
Nil	Nil	NA	NA

B] Completed Projects			
Project Title	Principal Investigator	Funding Agency	Grants Received (₹)
Nil	Nil	NA	NA

18. Research Centre/ facility recognized by the University	NA
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19. Publications [2010 – 2015]												
[Detailed list of publication are in Annexure- I]												
Total no. of Publication											34	
National Journals											07	
International journals											03	
Conference Proceedings Paper											NIL	
Books with ISBN / ISSN											4	
Faculty	No. of papers published in peer reviewed journals (National and international)	No. of publication listed in International Database	Monographs	Chapter in Books	Books edited	Books with ISBN/ ISBN	Citation Index	SNIP	SJR	Impact factor	h-index	
KetakiDatta	10	-	-	12	1	3	-	-	-	-	-	

20. Areas of consultancy and income generated	Nil
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21. Faculty as members in	
a) National Committees	Nil
b) International Committees	01
c) Editorial Board	01

Faculty	Committee
Dr. KetakiDatta	1. The American Biographical Society as professional learner of the year since 2005 2. Writers editors critics of international journal of multidisciplinary studies 3. K. Datta on the advisory board of two journals published regularly from Kerala

22. Student projects	NA
a) Percentage of students who have done in-house projects including inter departmental/ programme	NA
b) Percentage of students placed for projects in organizations outside the institution i.e., research laboratories/ Industry/ other agencies	NA

23. Awards/Recognition received by Faculty & Students:	
Faculty	Professional Woman of the Year, 2005, conferred on KetakiDatta by the American Biographical Society
Students	Nil

24. List of eminent Academicians and Scientist/ Visitors to the department		
Name of the Resource Persons	Date	Title of the Invited Talk
1. Prof SanjuktaDasgupta, Dean , Arts Faculty, Calcutta University	02/08/2013	The Tasks & Targets of Literary Translation
2. Prof. SupriyaChowdhury, Prof Emeritus, jadavpur University	03/08/2013	Translation & World Literature
3. Prof. SaugataBhadury, JNU, New Delhi	02/08/2013	Translation in the Era of Globalisation
4. SamikBandopadhyay, Eminent Film Critic and Translator	03/08/2013	Translation in the Postcolonial Era
5. Prof. ChinmoyGuha, Calcutta University	03/08/2013	Knife in the Head: Confessions of a Translator
6. DrSamantak Das, Jadavpur University	02/08/2013	Translating Culture

25. Seminars/ Conferences/ Workshops organized & the source of funding	
a) National funded by UGC	01
b) International	Nil

Seminar Topic	Level	Funding Agency	Date	Collaboration
Literature in Translation	National	UGC	August 2-3, 2013	Barasat Govt College

26. Student profile programme/ course wise					
Name of the course/ programme [English Honours]	Application received	Selected	Enrolled		Pass percentage (%)
			Male	Female	
2014 – 2015	772	35	14	21	100
2013 – 2014	721	36	17	19	95.50
2012 – 2013	922	40	19	21	96.30
2011 – 2012	519	35	10	25	90
2010 - 2011	525	35	13	22	100

27. Diversity of Students			
Name of the Course [English Honours]	% of students from the same State	% of students from the other States	% of students abroad
2014 – 2015	100	Nil	Nil
2013 – 2014	100	Nil	Nil
2012 – 2013	95	5	Nil
2011 – 2012	100	Nil	Nil
2010 - 2011	100	Nil	Nil

28. How many students have cleared National and state competitive examinations such as NET, SLET, GATE, Civil Service, Defence Service etc.	Not applicable since the Department only provides UG Courses
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29. Student progression	Percentage against enrolled in Academic Session				
	2014 - 2015	2013-2014	2012-2013	2011-2012	2010 – 2011
UG to PG	Data Unavailable	Data Unavailable	Data Unavailable	Data Unavailable	Data Unavailable
PG to M.Phil.	Data Unavailable	Data Unavailable	Data Unavailable	Data Unavailable	Data Unavailable
PG to Ph.D	Data Unavailable*	Data Unavailable*	Data Unavailable*	Data Unavailable*	Data Unavailable*
Ph.D. to Post-Doctoral	Data Unavailable	Data Unavailable	Data Unavailable	Data Unavailable	Data Unavailable
Employed	Data Unavailable	Data Unavailable	Data Unavailable	Data Unavailable	Data Unavailable
• Campus selection	Data Unavailable	Data Unavailable	Data Unavailable	Data Unavailable	Data Unavailable
• Other than campus recruitment	Data Unavailable	Data Unavailable	Data Unavailable	Data Unavailable	Data Unavailable
Entrepreneurship/ Self-employed	Data Unavailable	Data Unavailable	Data Unavailable	Data Unavailable	Data Unavailable

*The Department of English is an UG Department.

Name of the Service	No. of students selected [2010 – 2015]
Central Government Service	Data Unavailable
State Government Service	Data Unavailable
School Service Commission	Data Unavailable
Bank and related service	Data Unavailable
Railway Service	Data Unavailable
Insurance Service	Data Unavailable
Private sector	Data Unavailable

30. Details of Infrastructural facilities	
a) Library	One Central Library & a Seminar Library with 382 books
b) Internet facilities for Staff & Students	Common Internet connection for faculty members
c) Class room with ICT facility	One Common Class Room
d) Laboratories	NA

31. Number of students receiving financial assistance from College, University, Government or other agencies					
Session	Type of financial assistance		No. of students receiving financial assistance		
			Total	Male	Female
2014 – 2015	Merit cum-Means, SC-ST Post Matric, Kanyasreeetc [Govt]	S.R.Jindal [Pvt]	10	6	4
2013 – 2014	Merit cum-Means, SC-ST Post Matric, Kanyasreeetc [Govt]	S.R.Jindal [Pvt]	30	14	16
2012 – 2013	Merit cum-Means, SC-ST Post Matric, etc [Govt]	S.R.Jindal [Pvt]	18	6	12
2011 – 2012	Merit cum-Means, SC-ST Post Matric, etc [Govt]	S.R.Jindal [Pvt]	29	8	21
2010 – 2011	Merit cum-Means, SC-ST Post Matric, etc [Govt]	S.R.Jindal [Pvt]	30	11	19

32. Details of students enrichment programmes (special lecture/ workshops/ seminar) with external experts				
Programme	Year	Title	Funding agency	External Experts / Resource Persons
Special lecture	18/04/2012	Students' Seminar & Counselling	College	Prof. Meenakshi Krishnan, RSC, Barrackpore
Special lecture	10/09/2012	Please Take It Personally: Theory & Identity	College	Prof. Niladri Chatterjee, Kalyani University
Special lecture	14/09/2012	William Blake	College	Prof. Subir Dhar, Rabindra Bharati University
Workshop	03/09/2013	On Translation	UGC	Prof. Samik Bandopadhyay, JNU, New Delhi
Special lecture	06/12/2014	Basic Concerns of Linguistics	College	Prof. Indranee Ghosh,
Special lecture	27/02/2015	Third Theatre and Breaking the 4 th . Wall	College	Prof. Indranee Ghosh,

33. Teaching methods adopted to improve students' learning

1. Tutorial Classes
2. Class Tests at regular interval
3. Remedial Classes

Year	Date of Excursion	Place of Excursion
2015	NA	NA
2014	NA	NA
2013	NA	NA
2012	NA	NA
2011	NA	NA
2010	NA	NA

34. Participation in Institutional Social Responsibility [ISR] and Extension activities

Students of the department are actively engaged in different activities of NSS

35. SWOC analysis of the department and Future Plans

Strength	<ul style="list-style-type: none"> • Teacher-taught relationship
Weakness	<ul style="list-style-type: none"> • Want of smart class-rooms
Opportunities	<ul style="list-style-type: none"> • Systematic & organized efforts • Seminars & workshops • Access to online journals and other resources
Challenges	<ul style="list-style-type: none"> • To help students from the backward areas to learn generally correct English and then encourage initiation into English literature
Future Plans	<ul style="list-style-type: none"> • Setting up smart class-rooms

14. Department of History

1. Name of the Department	HISTORY
2. Year of establishment	1984
3. Names of Programmes/Courses offered (UG, PG, M. Phil, Ph. D, Integrated Masters, Integrated Ph. D etc.) Under Graduate (Honours) & Under Graduate (General)	
4. Name of Interdisciplinary courses and the departments /Units involved	Nil
5. Annual/ semester/ choice based credit system (programme wise) B.A History Honours: Annual Examination [Part I, Part II and Part III] B.A History General: Annual Examination [Part-I and Part-II]	
6. Participation of the department in the courses offered by other departments History is offered as a General Subject for other B.A. Hons subjects	
7. Course in collaboration with other universities, industries, foreign institution, etc.	Nil
8. Details of programmes discontinued, if any, with reasons	Nil

Academic Session	Faculty	Sanctioned	Filled	Actual (including CAS & MPS)
2014 – 2015	Professor	Nil	-	-
	Associate Professor	05	02	02*
	Assistant Professor		02	02
2013-2014	Professor	Nil	-	-
	Associate Professor	05	03	03*
	Assistant Professor		01	01
2012-2013	Professor	Nil	-	-
	Associate Professor	05	03	03*
	Assistant Professor		01	01
2011-2012	Professor	Nil	-	-
	Associate Professor	05	03	03*
	Assistant Professor		01	01
2010 – 2011	Professor	Nil	-	-
	Associate Professor	05	04	04*
	Assistant Professor		01	01

**Except the post of Professor, all the other posts are those of Assistant Professor, upgraded by Govt. Order due to CAS.*

10. Faculty profile with name, qualification, designation, area of specialization, experience and research under guidance [Academic Session: 2014 – 2015]					
Name	Qualification	Designation	Area of Specialization	Years of experience	No. of Ph. D/ M. Phil. Students guided for the last 4 years
SumatiMajumder	M.A., M.Phil.	Associate Professor [WBES]	Modern India	30	Nil
Ratan Kumar Biswas	M.A., M.Phil, Ph.D.	Associate Professor [WBES]	Modern India with special reference to Bengal	29	Nil
Eeshita Chatterjee	M.A., Ph.D.	Associate Professor [WBES]	Modern India	30	Nil
Swati Sen	M.A., B.Ed.	Assistant Professor [WBES]	Ancient Indian History and Culture	13	Nil
Sujit Das	M.A., B.Ed.	Assistant Professor [WBES]	Ancient Indian History and Culture	01	Nil

11. List of senior Visiting Faculty	Nil
12. Percentage of lectures delivered and practical classes handled (programme wise) by temporary faculty	Nil

13. Student-Teacher ratio (programme wise)			
Academic Session	Total no of students	Total no of Teachers	Student-Teacher ratio
2014 – 2015	38	4	10:1
2013 – 2014	39	4	10:1
2012 – 2013	47	4	12:1
2011 – 2012	67	4	17:1
2010 – 2011	50	5	10:1

14. Number of academic support staff (technical) and administrative staff, [sanctioned and filled]					
Sanctioned	Filled	Actual	Name of the Employee	Designation	Category
Nil	-	-	-	-	-

15. Qualification of Teaching Faculty with D. Sc./ D. Litt./ Ph. D/ M. Phil./ PG	
Highest Qualification	No. of Teaching Faculty [present status]
D. Sc./ D. Litt.	Nil
Ph. D	02
M. Phil	02
PG	05

16. Number of faculty with ongoing projects from a) National b) International funding agencies and grants received	
a) National	Nil
b) International funding agencies	Nil
Total grants received	Nil

17. Departmental projects funded by DST-FIST, UGC, DBT, ICSSR etc. and total grants received [2010 – 2015]			
A] Ongoing Projects			
Project Title	Principal Investigator	Funding Agency	Grants Received (₹)
Nil	Nil	NA	NA

B] Completed Projects			
Project Title	Principal Investigator	Funding Agency	Grants Received (₹)
Nil	Nil	NA	NA

18. Research Centre/ facility recognized by the University	Nil
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19. Publications [2010 – 2015] [Detailed list of publication are in Annexure- I]	
Total no. of Publication	22
National Journals	14
International journals	00
Conference Proceedings Paper	02
Books with ISBN/ ISSN	02

Faculty Name	No. of papers published in peer reviewed journals (National and international)	No. of publication listed in International Database	Monographs	Chapter in Books	Books edited	Books with ISBN/ ISBN	Citation Index	SNIP	SJR	Impact factor	h-index
RATAN KR. BISWAS	02	-	-	-	-	02	-	-	-	-	-
EESHITA CHATTERJEE	06	-	-	04	-	-	-	-	-	-	-
SWATI SEN	06	-	-	-	-	-	-	-	-	-	-

20. Areas of consultancy and income generated	Nil
21. Faculty as members in	
National Committees	Nil
International Committees	Nil
Editorial Board	Nil

Faculty	Committee
NA	NA

22. Student projects	NA
Percentage of students who have done in-house projects including inter departmental/ programme	NA
Percentage of students placed for projects in organizations outside the institution i.e., research laboratories/ Industry/ other agencies	NA

23. Awards/ Recognition received by Faculty and Students	Nil
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24. List of eminent Academicians and Scientist/ Visitors to the department	Nil
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25. Seminars/ Conferences/ Workshops organized & the source of funding	
National	Nil
International	Nil

Seminar Topic	Level	Funding Agency	Date	Collaboration
NA	NA	NA	NA	NA

26. Student profile programme/ course wise [History Honours]

Name of the course/ programme	Application received	Selected	Enrolled		Pass percentage
			Male	Female	
2014 – 2015	72	11	06	05	100
2013 – 2014	280	10	03	07	100
2012 – 2013	121	23	06	17	100
2011 – 2012	236	32	20	12	100
2010 -- 2011	245	18	09	09	100

27. Diversity of Students

Name of the Course [HISTORY Honours]	% of students from the same State	% of students from the other States	% of students abroad
2014 – 2015	100	NIL	NIL
2013 – 2014	100	NIL	NIL
2012 – 2013	100	NIL	NIL
2011 – 2012	100	NIL	NIL
2010 - 2011	100	NIL	NIL

28. How many students have cleared National and state competitive examinations such as NET, SLET, GATE, Civil Service, Defence Service etc.

Not applicable since the Department only provide UG degree

29. Student progression	Percentage against enrolled in Academic Session				
	2014 - 2015	2013-2014	2012-2013	2011-2012	2010 – 2011
UG to PG	83%	86%	82%	76	86%
PG to M.Phil.	NA	NA	NA	NA	NA
PG to Ph.D	01	NA	NA	NA	NA
Ph.D. to Post-Doctoral	NA	NA	NA	NA	NA
Employed	02	-	-	-	-
• Campus selection	01	NIL	NIL	NIL	NIL
• Other than campus recruitment	01	Data Unavailable	Data Unavailable	Data Unavailable	Data Unavailable
Entrepreneurship/ Self-employed	Data Unavailable	Data Unavailable	Data Unavailable	Data Unavailable	Data Unavailable

Name of the Service	No. of students selected [2010 – 2015]
Central Government Service	-
State Government Service	01
School Service Commission	-
Bank and related service	-
Railway Service	-
Insurance Service	-
Private sector	01

30. Details of Infrastructural facilities	
Library	The department has a Seminar Library with 414 books. Students are allowed to borrow books fortnightly
Internet facilities for Staff & Students	Common Internet facility for Faculties
Class room with ICT facility	Nil

31. Number of students receiving financial assistance from College, University, Government or other agencies					
Session	Type of financial assistance		No. of students receiving financial assistance		
	Govt	Pvt	Total	Male	Female
2014 – 2015	Merit cum- Means, SC-ST Post Matric, Kanyasreeetc	S.R.Jindal	01	01	0
2013 – 2014	Merit cum- Means, SC-ST Post Matric, Kanyasreeetc	S.R.Jindal	08	02	06
2012 – 2013	Merit cum- Means, SC-ST Post Matric, etc	S.R.Jindal	07	02	05
2011 – 2012	Merit cum- Means, SC-ST Post Matric, etc	S.R.Jindal	21	12	09
2010 – 2011	Merit cum- Means, SC-ST Post Matric, etc	S.R.Jindal	14	07	07

32. Details of students enrichment programmes (special lecture/ workshops/ seminar) with external experts				
Programme	Year	Title	Funding agency	External Experts / Resource Persons
Nil	NA	NA	NA	NA

33. Teaching methods adopted to improve students learning

- a) Chalk and talk method
- b) Educational tours- 01 day study tour
- c) Computer aided methods for showing them the places of historical importance

Year	Date of Excursion	Place of Excursion
2014-2015	NA	NA
2013-2014	NA	NA
2012-2013	NA	NA
2011-2012	09 th September, 2011	Victoria Memorial and Calcutta Museum
2010-2011	NA	NA

34. Participation in Institutional Social Responsibility [ISR] and Extension activities

- a) In different activities of NSS

35. SWOC analysis of the department and Future Plans

Strength	<ul style="list-style-type: none"> • Department is a unique combination of Experienced and energetic faculty members, engaged in active research and writing books • Encouraging and motivating students for pursuing higher studies • Arranging special classes for the weak students • Arranging special classes for the students by other departmental teachers of the institution
Weakness	<ul style="list-style-type: none"> • Shortage of class rooms • Low student strength • Non-availability of computers • No departmental staff room
Opportunities	<ul style="list-style-type: none"> • Scope of further higher studies and PG Courses in newly constructed building • Encouragement and counselling of students for higher education and research
Challenges	<ul style="list-style-type: none"> • Despite the lack of academic autonomy to create deep interest in the subject through innovative teaching in the class room and in the field • Accommodate and evaluate the potentiality of annual increase in student strength • To fulfil the ambition of needy students with meagre resources.
Future Plans	<ul style="list-style-type: none"> • Increasing space for smart class rooms, museum and library. • Enhancing the number of research projects and collaboration with other departments and Institutes • Increasing remedial and tutorials for weak students • Upgrading the UG department to Postgraduate programme.

15. Department of Philosophy

1. Name of the Department	PHILOSOPHY
2. Year of establishment	1984
3. Names of Programmes/Courses offered (UG, PG, M. Phil, Ph. D, Integrated Masters, Integrated Ph. D etc.) Under Graduate (Honours) & Under Graduate (General)	
4. Name of Interdisciplinary courses and the departments /Units involved	Nil
5. Annual/ semester/ choice based credit system (programme wise) B. A. Philosophy Honours: Annual Examination [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 Political Science (Hons.), English (Hons.), Bengali (Hons.) and History (Hons.)	
7. Course in collaboration with other universities, industries, foreign institution, etc.	Nil
8. Details of programmes discontinued, if any, with reasons	NA

9. Number of teaching posts sanctioned, filled and actual (Professor/ Associate Professor/ Assistant Professor/ Others)				
Academic Session	Faculty	Sanctioned	Filled	Actual (including CAS & MPS)
2014 – 2015	Professor	-	-	
	Associate Professor		2	2*
	Assistant Professor	5	2	2
2013-2014	Professor	-		
	Associate Professor	5	3	3*
	Assistant Professor		2	2
2012-2013	Professor	-		
	Associate Professor	5	3	3*
	Assistant Professor		2	2
2011-2012	Professor	-		
	Associate Professor	5	3	3*
	Assistant Professor		2	2
2010 – 2011	Professor	-		
	Associate Professor	5	4	4*
	Assistant Professor		1	1

* Except the post of Professor, all the other posts are those of Assistant Professor, upgraded by Govt. Order due to CAS.

10. Faculty profile with name, qualification, designation, area of specialization, experience and research under guidance [Academic Session: 2014 – 2015]					
Name	Qualification	Designation	Area of Specialization	Years of experience	No. of Ph. D/ M. Phil. Students guided for the last 4 years
Sewli Das (Karmakar)	M.A., M.Phil.	Associate Professor (WBES)	Western Logic and Indian Philosophy	17	Nil
Sankalita Ghosh	M.A, M.Phil, Ph.D.	Assistant Professor (WBES)	Indian Philosophy (Vedanta).	8	Nil
Tanima Chatterjee	M.A., B.Ed.	Assistant Professor (WBES)	Western Logic	1	Nil

11. List of senior Visiting Faculty	Nil
12. Percentage of lectures delivered and practical classes handled (programme wise) by temporary faculty	Nil

13. Student-Teacher ratio (programme wise)			
Academic Session	Total no of students	Total no of Teachers	Student-Teacher ratio
2014 – 2015	20	4	5:1
2013 – 2014	23	5	4:1
2012 – 2013	31	5	6:1
2011 – 2012	42	5	8:1
2010 – 2011	33	4	8:1

14. Number of academic support staff (technical) and administrative staff, [sanctioned and filled] Nil					
Sanctioned	Filled	Actual	Name of the Employee	Designation	Category
Nil	Nil	Nil	Nil	Nil	Nil

15. Qualification of Teaching Faculty with D. Sc./ D. Litt./ Ph. D/ M. Phil./ PG	
Highest Qualification	No. of Teaching Faculty [present status]
D. Sc./ D. Litt.	Nil
Ph. D	1
M. Phil	1
PG	1

16. Number of faculty with ongoing projects from a) National b) International funding agencies and grants received	
a) National	Nil
b) International funding agencies	Nil
Total grants received	Nil

17. Departmental projects funded by DST-FIST, UGC, DBT, ICSSR etc. and total grants received [2010 – 2015]			
A] Ongoing Projects		Nil	
Project Title	Principal Investigator	Funding Agency	Grants Received (₹)

B] Completed Projects			
Project Title	Principal Investigator	Funding Agency	Grants Received (₹)
Karya Prapancher Vivarta Viseya Advaitamata Samiksha	Sankalita Ghosh	UGC	86,000

18. Research Centre/ facility recognized by the University	NA
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19. Publications [2010 – 2015] [Detailed list of publication are in Annexure- I]											
Total no. of Publication											02
National Journals											Nil
International journals											Nil
Conference Proceedings Paper											Nil
Books with ISBN/ ISSN											Nil
Faculty	No. of papers published in peer reviewed journals (National and international)	No. of publication listed in International Database	Monographs	Chapter in Books	Books edited	Books with ISBN/ ISBN	Citation Index	SNIP	SJR	Impact factor	h-index
Sewli Das(Karmakar)	Nil	-	-	02	-	-	-	-	-	-	-

20. Areas of consultancy and income generated	Nil
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21. Faculty as members in	Nil
National Committees	1
International Committees	Nil
Editorial Board	1

Faculty	Committee
Sewli Das(Karmakar)	Member of Board of Studies, WBSU Member of Editorial Board, AUREOLE, an academic Journal

22. Student projects	NA
Percentage of students who have done in-house projects including inter departmental/ programme	NA
Percentage of students placed for projects in organizations outside the institution i.e., research laboratories/ Industry/ other agencies	NA

23. Awards/ Recognition received by Faculty and Students	Nil
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24. List of eminent Academicians and Scientist/ Visitors to the department	Nil
25. Seminars/ Conferences/ Workshops organized & the source of funding	
National funded by UGC in collaboration with BSI	Nil
International	Nil

Seminar Topic	Level	Funding Agency	Date	Collaboration
Nil	Nil	NA	NA	NA

26. Student profile programme/ course wise [Philosophy Honours]					
Name of the course/ programme	Application received	Selected	Enrolled		Pass percentage
			Male	Female	
2014 – 2015	37	07	0	07	84.6
2013 – 2014	279	07	02	05	76.1
2012 – 2013	104	12	04	08	83.3
2011 – 2012	239	21	04	17	85.6
2010 - 2011	245	13	04	09	71.4

27. Diversity of Students			
Name of the Course [Philosophy Honours]	% of students from the same State	% of students from the other States	% of students abroad
2014 – 2015	90%	10%	NIL
2013 – 2014	100	NIL	NIL
2012 – 2013	100	NIL	NIL
2011 – 2012	100	NIL	NIL
2010 - 2011	100	NIL	NIL

28. How many students have cleared National and state competitive examinations such as NET, SLET, GATE, Civil Service, Defence Service etc.	Not applicable since the Department only provide UG degree
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29. Student progression	Percentage against enrolled in Academic Session*				
	2014 - 2015	2013-2014	2012-2013	2011-2012	2010 – 2011
UG to PG	10	25	35	25	35
PG to M.Phil.	NA	NA	NA	NA	NA
PG to Ph.D	NA	NA	NA	NA	NA
Ph.D. to Post-Doctoral	NA	NA	NA	NA	NA
Employed					
• Campus selection	Nil	Nil	Nil	Nil	Nil
• Other than campus recruitment	Data Unavailable	Data Unavailable	Data Unavailable	Data Unavailable	Data Unavailable
Entrepreneurship/ Self-employed	Nil	Nil	Nil	Nil	Nil

Name of the Service	No. of students selected [2010 – 2015] *
Central Government Service	Data Unavailable
State Government Service	2
School Service Commission	Data Unavailable
Bank and related service	Data Unavailable
Railway Service	Data Unavailable
Insurance Service	Data Unavailable
Private sector	11

30. Details of Infrastructural facilities	
Library	The department has a Seminar Library with more than 500 books. Students are allowed to borrow books fortnightly.
Internet facilities for Staff & Students	Common Internet facility for staff
Class room with ICT facility	nil

31. Number of students receiving financial assistance from College, University, Government or other agencies [Philosophy Honours]					
Session	Type of financial assistance		No. of students receiving financial assistance		
			Total	Male	Female
2014 – 2015	Merit cum-Means, SC-ST Post Matric, Kanyasree etc	S.R.Jindal	0	0	0
2013 – 2014	Merit cum-Means, SC-ST Post Matric, Kanyasree etc	S.R.Jindal	2	0	2
2012 – 2013	Merit cum-Means, SC-ST Post Matric, etc	S.R.Jindal	1	1	0
2011 – 2012	Merit cum-Means, SC-ST Post Matric, etc	S.R.Jindal	13	1	12
2010 – 2011	Merit cum-Means, SC-ST Post Matric, etc	S.R.Jindal	7	2	5

32. Details of students enrichment programmes (special lecture/ workshops/ seminar) with external experts				
Programme	Year	Title	Funding agency	External Experts / Resource Persons
Seminar	27.2.2015	Morality & its extension	BNC	Prof. Avik Bannerjee

33. Teaching methods adopted to improve students learning
<ul style="list-style-type: none"> a) Chalk and talk method b) Tutorial Sessions for the students c) Written and Verbal tests are conducted frequently to monitor the progress of the students d) Study materials and Question banks are given to the students for their convenience e) Regular Class Tests and Unit Tests are taken f) Formal and Informal Counselling of students on a regular basis for both academic and co-curricular activities g) Providing exposure to the students in different academic platforms like seminars, special lectures within the department, , celebration of special days

Year	Date of Excursion	Place of Excursion
2015	Nil	Nil
2014	Nil	Nil
2013	Nil	Nil
2012	Nil	Nil
2011	Nil	Nil
2010	Nil	Nil

34. Participation in Institutional Social Responsibility [ISR] and Extension activities

- a) In different activities of NSS
- b) Students actively participate in all departmental and college activities with keen interest in nature and environment

35. SWOC analysis of the department and Future Plans

Strength	<ul style="list-style-type: none"> • Experienced and energetic faculty members • Engaged in active research and writing books • Encouraging and motivating students for pursuing higher studies • Arranging special classes for the weak students • Regular interaction with guardians on academic and related issues
Weakness	<ul style="list-style-type: none"> • Shortage of class rooms • Low student strength • Non-availability of computers • No departmental staff room
Opportunities	<ul style="list-style-type: none"> • Scope of further higher studies and PG Courses in newly constructed building • Encouragement and counselling of students for higher education and research • Guidance of students for UGC-NET • Easier provision of aids to financially and physically underprivileged students • Enhancing the overall standard of education by analysing the teaching methods followed at other leading universities.
Challenges	<ul style="list-style-type: none"> • Despite the lack of academic autonomy to create deep interest in the subject through innovative teaching in the class room and in the field • Accommodate and evaluate the potentiality of annual increase in student strength • To fulfil the ambition of needy students with meagre resources.
Future Plans	<ul style="list-style-type: none"> • Arrangement of workshops for both teachers and students. • Enhancing the number of research projects and collaboration with other departments and Institutes • Increasing remedial and tutorial classes for weak students • Upgrading the UG department to Postgraduate programme. • Use of Slides Presentation for the convenience of students • Health awareness drives at backward areas with students.

16. Department of Political Science

1. Name of the Department	POLITICAL SCIENCE
2. Year of establishment	1984
3. Names of Programmes/Courses offered (UG, PG, M. Phil, Ph. D, Integrated Masters, Integrated Ph. D etc.) Under Graduate (Honours) & Under Graduate (General)	
4. Name of Interdisciplinary courses and the departments /Units involved	Nil
5. Annual/ semester/ choice based credit system (programme wise) B. A. Political Science Honours: Annual Examination [Part I, Part II and Part III] B. A. Political Science General: Annual Examination [Part I and Part II]	
6. Participation of the department in the courses offered by other departments Political Science is offered as a General Subject for Philosophy (Hons.), English (Hons.), Economics (Hons.), Bengali (Hons.) and History (Hons.)	
1. Course in collaboration with other universities, industries, foreign institution, etc.	Nil
8. Details of programmes discontinued, if any, with reasons	NA

9. Number of teaching posts sanctioned, filled and actual (professors/ Associate Professors/ Asst. Professors/ Others)				
Academic Session	Faculty	Sanctioned	Filled	Actual (including CAS & MPS)
2014 – 2015	Professor	-	-	-
	Associate Professor	05	04	04*
	Assistant Professor		00	0
2013-2014	Professor	-		
	Associate Professor	05	04	04*
	Assistant Professor		00	0
2012-2013	Professor	-	-	-
	Associate Professor	05	05	05*
	Assistant Professor		0	0
2011-2012	Professor	-	-	-
	Associate Professor	05	05	05*
	Assistant Professor		0	0
2010 – 2011	Professor	-		
	Associate Professor	05	05	05*
	Assistant Professor		0	0

***Except the post of Professor all other posts are basically those of Assistant Professor, upgraded by Govt order due to CAS*

10. Faculty profile with name, qualification, designation, area of specialization, experience and research under guidance [Academic Session: 2014 – 2015]					
Name	Qualification	Designation	Area of Specialization	Years of experience	No. of Ph.D./ M. Phil. Students guided for the last 4 years
Shahid Jamal Siddiqi	M.A., M.Phil., Ph.D.	Associate Professor (WBES)	International Law	31	nil
Tathagata Chakraborty	M.A., M.Phil., Ph.D.	Associate Professor (WBES)	Political Sociology	30	nil
Saibal Gupta	M.A., M.Phil.	Associate Professor (WBES)	Socialist Thought	30	nil
Suparna Sengupta	M.A., M.Phil.	Associate Professor (WBES)	Socialist Thought	18	nil
Deeplekha Sengupta Dasgupta	M.A., M.Phil.	Assistant Professor (WBES)	International Relations	1	nil

11. List of senior Visiting Faculty	Nil
12. Percentage of lectures delivered and practical classes handled (programme wise) by temporary faculty	Nil

13. Student-Teacher ratio (programme wise)			
Academic Session	Total no of students	Total no of Teachers	Student-Teacher ratio
2014 – 2015	12	04	3:1
2013 – 2014	48	04	12:1
2012 – 2013	34	5	7:1
2011 – 2012	52	5	10:1
2010 – 2011	50	5	10:1

14. Number of academic support staff (technical) and administrative staff, [sanctioned and filled]					
Sanctioned	Filled	Actual	Name of the Employee	Designation	Category
Nil	Nil	Nil			

15. Qualification of Teaching Faculty with D. Sc./ D. Litt./ Ph. D/ M. Phil./ PG	
Highest Qualification	No. of Teaching Faculty [present status]
D. Sc./ D. Litt.	Nil
Ph. D	02
M. Phil	03
PG	Nil

16. Number of faculty with ongoing projects from a) National b) International funding agencies and grants received	
a) National	Nil
b) International funding agencies	Nil
Total grants received	Nil

17. Departmental projects funded by DST-FIST, UGC, DBT, ICSSR etc. and total grants received [2010 – 2015]			
A] Ongoing Projects			
Project Title	Principal Investigator	Funding Agency	Grants Received (₹)
Nil	Nil	Nil	Nil

B] Completed Projects			
Project Title	Principal Investigator	Funding Agency	Grants Received (₹)
Nil	Nil	Nil	Nil

18. Research Centre/ facility recognized by the University	NA
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19. Publications [2010 – 2015]											
[Detailed list of publication are in Annexure- I]											
Total no. of Publication									NIL		
National Journals									NIL		
International journals									NIL		
Conference Proceedings Paper									NIL		
Books with ISBN/ ISSN									NIL		
Faculty	No. of papers published in peer reviewed journals (National and international)	No. of publication listed in International Database	Monographs	Chapter in Books	Books edited	Books with ISBN/ ISBN	Citation Index	SNIP	SJR	Impact factor	h-index
Nil	-	-	-	-	-	-	-	-	-	-	-

20. Areas of consultancy and income generated	Nil
21. Faculty as members in	
National Committees	Nil
International Committees	Nil
Editorial Board	Nil

Faculty	Committee
Nil	Nil

22. Student projects	NA
Percentage of students who have done in-house projects including inter departmental/ programme	NA
Percentage of students placed for projects in organizations outside the institution i.e., research laboratories/ Industry/ other agencies	NA

23. Awards/ Recognition received by Faculty and Students	
Faculty	Nil
Students	Nil

24. List of eminent Academicians and Scientist/ Visitors to the department	Nil
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25. Seminars/ Conferences/ Workshops organized & the source of funding	
National	Nil
International	Nil

Seminar Topic	Level	Funding Agency	Date	Collaboration
Nil				

26. Student profile programme/ course wise [Political Science Honours]					
Name of the course/ programme	Application received	Selected	Enrolled		Pass percentage
			Male	Female	
2014 – 2015	48	04	0	04	100
2013 – 2014	278	19	09	10	100
2012 – 2013	124	14	08	06	100
2011 – 2012	247	17	05	12	100
2010 - 2011	245	21	15	06	100

27. Diversity of Students [Political Science Honours]			
Name of the Course	% of students from the same State	% of students from the other States	% of students abroad
2014 – 2015	100	Nil	Nil
2013 – 2014	100	Nil	Nil
2012 – 2013	92.31	7.69	Nil
2011 – 2012	96.15	3.85	Nil
2010 - 2011	100	Nil	Nil

28. How many students have cleared National and state competitive examinations such as NET, SLET, GATE, Civil Service, Defence Service etc.	Not applicable since the Department only provide UG degree
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29. Student progression	Percentage against enrolled in Academic Session				
	2014 - 2015	2013-2014	2012-2013	2011-2012	2010 – 2011
UG to PG	Data Unavailable	Data Unavailable	Data Unavailable	Data Unavailable	Data Unavailable
PG to M.Phil.	NA	NA	NA	NA	NA
PG to Ph.D	NA	NA	NA	NA	NA
Ph.D. to Post-Doctoral	NA	NA	NA	NA	NA
Employed					
• Campus selection	Nil	Nil	Nil	Nil	Nil
• Other than campus recruitment	Data Unavailable	Data Unavailable	Data Unavailable	Data Unavailable	Data Unavailable
Entrepreneurship/ Self-employed	Data Unavailable	Data Unavailable	Data Unavailable	Data Unavailable	Data Unavailable

Name of the Service	No. of students selected [2010 – 2015]
Central Government Service	Nil
State Government Service	Nil
School Service Commission	Nil
Bank and related service	Nil
Railway Service	Nil
Insurance Service	Nil
Private sector	Nil

30. Details of Infrastructural facilities	
Library	Departmental Seminar Library. Students can borrow books from this Library.
Internet facilities for Staff & Students	Common Internet Connection
Class room with ICT facility	Nil
Laboratories	NA

31. Number of students receiving financial assistance from College, University, Government or other agencies [Political Honours]					
Session	Type of financial assistance		No. of students receiving financial assistance		
	Govt	Pvt	Total	Male	Female
2014 – 2015	Merit cum- Means, SC-ST Post Matric, Kanyasree etc	S.R.Jindal	0	0	0
2013 – 2014	Merit cum- Means, SC-ST Post Matric, Kanyasree etc	S.R.Jindal	13	6	7
2012 – 2013	Merit cum- Means, SC-ST Post Matric, etc	S.R.Jindal	0	0	0
2011 – 2012	Merit cum- Means, SC-ST Post Matric, etc	S.R.Jindal	12	4	8
2010 – 2011	Merit cum- Means, SC-ST Post Matric, etc	S.R.Jindal	16	12	4

33. Teaching methods adopted to improve students learning
Assessment in the form of class test, half-yearly, annual and test examination

Year	Date of Excursion	Place of Excursion
	NIL	

34. Participation in Institutional Social Responsibility [ISR] and Extension activities
In different activities of NSS Students actively participate in all departmental and college activities with keen interest in nature and environment

35. SWOC analysis of the department and Future Plans	
Strength	The department of Political Science has experienced and qualified faculty. The library has a rich collection in the subject area.
Weakness	The department is in dire need of more classrooms and rooms for faculty members. Absence of Calcutta University brand is a real weakness to attract new students.
Opportunities	Students of the department have opportunities in the field of editorship, journalism and mass communication as well as in other media specific careers. Also they are prepared and eligible for different All India and State level Competitive Exams.

Challenges	College went under newly established WBSU in 2008 from the renowned Calcutta University, leading to a sharp decline in quality of the inflow of students. The only way out is to highlight the good academic output of the department resulting from an organised conscientious effort made by the faculty.
Future Plans	To set up a smart class room

**POST
ACCREDITATION
INITIATIVES**

POST ACCREDITATION INITIATIVES

ACTIONS TAKEN ON THE RECOMMENDATIONS OF THE NAAC PEER TEAM DURING CYCLE-1 VISIT IN 2006.

1. Recommendation: Library needs to be computerized with networking and linkage.

The College Central Library is being set up in a renovated form in the New Administrative building with 600.9 sq m of working area. The enriched hard copy holdings in forms of books and journals is about 53000

The Newly built Central Library offers inflibnet (funded by the UGC) facility , and an ongoing computerization process is on till date. The library will provide facilities of open access system for the students and the teachers. Further the college provides access to more than 97000 e-books, 6000 e- journals and periodicals through inflibnet services. In regard to the Computerization of the library, process of installation of computers is ongoing and will suffice the needs of the faculties and students in very near future. The Library Software KOHA is used in the Library.

2. Recommendation: Reading room needs an extension of internet facility to students

The newly established library after being shifted to the new building has enlarged spatial reading room facility with a seating capacity of about 50 readers at a time. The process is on to provide internet facility to the students in near future after the setting up of the library is complete. It is going to be WI-FI enabled so that the readers with desk-tops in front can have access to a multiplicity of sources.

3. Recommendation for Central computer facility and access to internet facility for students and faculty.

In match with the peer team recommendation, Bidhannagar College has set up a centralized computer facility with access to internet facility for different Social science Departments such as Education, Geography and Economics. However for some of the departments like those of Statistics, Mathematics, Microbiology have set up computer laboratories of their own.

4. Recommendation: Innovative Classroom teaching.

Eight Departments, namely Anthropology, Botany, Chemistry, Geography, Mathematics, Microbiology, Physics and Zoology, have SMART classrooms (funded by UGC – XI Plan). Each of these SMART classrooms provide for innovative Classroom teaching with help of different gadgets like screen-projection, interactive pen display, laptops and digital sound systems. The other Departments use the same infrastructure occasionally, for more effective teaching taking help from the departments having IT enabled services.

5. Recommendation regarding fulfillment of the vacant post of the faculty

The vacant post of the faculties in Bidhannagar College is almost filled up. Of 110 sanctioned teaching posts, 101 (as on 01.07.2016) are presently filled up.

6. Recommendation: Consultancy and extension activity may be structured more diligently

A number of Consultancy and extension programme has been undertaken in recent past for the cause of a greater society some of which is mentioned hereby:

- (i) The research project, entitled “*Production of functional Dahi by isolated probiotic strain from breast fed human baby*” undertaken by Dr. Subhas Chandra Jana, officer-in-charge of the college produces an applied aspect of research from the institution for the sake of a greater community. The work involves isolation of probiotic lactic acid bacteria from breast milk samples. The aim of the study is to produce a functional food, dahi, containing probiotic starter cultures and make this probiotic dahi available especially to schoolchildren in remote rural areas, to combat not only diarrhea and other enteric illness, but also to boost up their nutrition and this way can be helpful to maintain a more healthy longer life. In near future, we also intend to make the probiotic dahi available through mid-day meal scheme. Furthermore, we have made an agreement with an industrial partner,

The “Dr. Subhas Mukherjee Memorial reproductive Biology Research Centre” has made a MOU with Dr. Subhas Jana of the department of Microbiology & Officer-in-Charge of the College after successful completion of laboratory work and discussion of the product. The main aim is to pass on the scientific achievements for the use of common people through the ‘lab to land’ program.

- (ii) Paan (betel leaf) has worldwide market because of its global dispersion of the pan chewing South Asians and its scientific recognition of medicinal values of pan. The vast economic potentiality of the crop can be adequately established by the fact that about 15-20 million people consume betel leaves in India on a regular basis besides those in other countries of the world which may include over 2 billion consumers. In India, this crop is grown on about 55,000 Ha of land and may constitute a gross production of leaves worth about Rs. 9000 million per annum. This clearly indicates the foreign exchange earning potentiality of the crop. In spite of its severe economic importance it faces high rate of wastage in the field due to bacterial and fungal infections. The research project undertaken by Dr. Subhas Chandra Jana entitled “*Studies on agricultural applications of biopesticides in different combinations for the management of betel vine disease*” creates an element of awareness advocating transfer of relative findings of research of the institution for the sake of a greater community.
- (iii) In recent past (2013) Dr. Sankha Priya Guha of the Department of Anthropology while supervising fieldwork in Pallah Road in Burdwan district stayed in Shikshaniketan [an NGO imparting education to students of SC’s and ST’s and Kids of Agriculture Labour

Section (Economically Weaker Section)] interacted with the aforesaid students and imparted them fundamental knowledge pertaining to the basic sciences.

Moreover, every year, Department of Anthropology while undertaking fieldwork in different tribal villages across West Bengal undertake surveys related to the literacy status of the community and the students actively communicate with the natives seeking the constraints related to the spread of education.

In regard to the consultancy services it should be mentioned that the services are provided on an honorary basis by the faculty and therefore, no revenue is generated. Some of the consultancy services performed by the faculties are mentioned hereby

- (i) Dr. Sumona Mukherjee, head of the department of Botany reviewed two international journals i) Reviewer of International Journals i) NUCLEUS (Springer) ii) JOURNAL OF MEDICINAL PLANTS during the concerned period. Not only is that she the member of the Board of Judges of JBNSTS since 2007.
- (ii) Dr. Kaushik Mazumder, assistant professor of this department also act as a reviewer of two international journals, namely Applied Microbiology & Biochemistry [Elsevier], 2011 and - Scientia Horticulturae [Elsevier], 2015
- (iii) Dr. Ketaki Datta, Associate professor of Department of English, is the Associate Editor of 'Writers, Editors, Critics'[An International Bi-annual Journal of English Language and Literature], Kerala.[ISSN: 2231-198X] and International Journal on Multicultural Literature, Kerala.[2231-6248], since 2013.

7. Recommendation: Co-curricular activities need to be boosted up with interdepartmental participation involving majority of students.

The students of the college participate in different types of co-curricular activities which include, Essay & Creative writing competition, Debates, Quiz, Sports, Cultural Programmes, Youth Parliament and the like. The Student Union of the College organizes an annual cultural program, 'DHUN' which is very popular among the student fraternity of the other colleges in and around the city. Students of the different post graduate Departments take part in different state and national-level seminars and Poster Competitions organized by different Universities, Institutes and Colleges. Participation of the students in all such activities is indirectly monitored by the College authority and/or directly by a committee formed by the Teachers' Council. Prizes are distributed among the successful participants, either individually or collectively.

A playground with an area of 7200 sq. ft. is there within the college premises for games and sports. It has been put to regular use for the all-round development of the students. Students regularly play outdoor games like Football, Cricket, Badminton, Athletics and indoor games like Table Tennis and Carom for recreation. The Annual Sports Meet and the Inter-government

College Sports Meet are organized here. A gymnasium is set up of late, equipped with advanced fitness accessories.

8. Canteen needs to be more spacious with more choice of healthy wholesome food for the students.

A newly set up spacious canteen is located adjacent to the College playground is running successfully within the college premise. Healthy, tasty and hygienic multi cuisine foods are served here at a cheaper rate.

9. College space/premises need to be used optimally to increase usage of facilities.

The College authority has its objective laid in optimal usage of spatial facilities. A newly built six storey administrative & humanities building complements the existing building to be redefined as science building will provide the academic infrastructure of the laboratory base science departments. The set up proposes for optimal utilization of spatial facilities. The new administrative building provides the in house facilities to , the Principal's chamber and the Office of the Principal, Student's Section, the Library, the Students' Union , the Alumni Association, scope for extension programmes and the Sick room. The building will also cater the needs of the humanities and social science departments.

An air-conditioned auditorium with a capacity of 300 persons is proposed to be built together with two adjacent big halls in this building to be availed for Organizing seminars at the national, and international, level; cultural programmes; different shows; cultural exhibitions, counselling for academic courses and job opportunities.

10. Recommendation: More P.G Programmes should be introduced and Laboratory equipments need upgradation, especially for P.G. practical.

PG Course have been introduced in Chemistry in recent past. The College authority has an objective of setting up of new PG departments in both science and humanities in near future. The newly built physical infrastructure in the college will suffice the academic and administrative needs of the newly proposed Post Graduate departments. It can only be initiated after the completion of the building with full facilities.

The policy-making in this regard however rests with the Government of West Bengal, the College being purely a Govt. Establishment. Yet, the college has a significant role. Projects for expansion and/ or any change for the better are forwarded to the Higher authority for consideration and approval on the condition that they contribute to the state's general education policy and vision.

In regard to the laboratories, the Science Departments have upgraded their laboratories with specialized modern equipments and/ or computers, which enable students and teachers to pursue advanced research work.

Specialized experiments using Gel electrophoresis, column chromatography and many more are being done in the Zoology. The Zoology Department has Digital Microscope with photographic attachment, UV illuminator with head-gear protection, BOD incubator for maintaining constant temperature, Autoclave, Microtome, spin win, the high speed centrifuge machine – all put to regular use.

The Microbiology Department is equipped with Thermal Cyclers, Lyophilizer, UV visible spectrophotometer, CO₂ incubator, Cold Centrifuge, ELISA Plate reader, Laminar air flow system, Gel Electrophoresis apparatus with power pack, Trans illuminator, Digital Balance, -86⁰ C Refrigerators

In the PG Department of Chemistry important equipments like Rotary evaporator and Spectrophotometer are being brought in.

The College has a a proposal of building a centralized Instrument Room for Life Science Departments and an Animal House. .

11. Recommendation for organizing seminar and workshops:

Academic and Community concerned seminars are more or less regularly held. Students participate in them quite actively. A Sensitizing Programme exclusively for the Girl Students was conducted at Rabindra Bhavan, Barasat, in 2013, sponsored by the Legal Service Cell, WB. In total 9 UGC-sponsored seminars were organized by various departments in the last few years. Departments also organized 6 seminars and workshops meant for the students for their active participation and involvement, duly funded by the college. Special lectures by veterans too were conducted for the students.

12. Efforts to be made for funded research as well as for resource generation

Teachers of the Humanities and the Science Departments have been actively engaged in research work (both Minor & Major) sponsored by UGC and other funding agencies.

In keeping with the suggestion by IQAC a Research and Development Committee has been formed under the Teachers Council as well as a committee for the UGC-related matters have been formed. Autonomy is given to the Principal researcher and the College provides major infrastructural facilities like library, laboratory, computer and internet facilities to support and speed up research activities.

The college is planning to generate resources by selling vermicompost and multipurpose bio-fertilizers to the cultivators at the government rate. The institute can also generate resources by selling probiotic ‘dahi’ to the common people.

The institute is also planning to generate resources by organizing training programmes which will train faculty members of different colleges in using several high-end instruments which are housed in the college.

13. Recommendation regarding Career oriented and/or add on certificate courses such as Computer Applications, Conversational English, Journalism, Tissue Culture, etc. should be started

In collaboration with the National Institute of Electronics & Information Technology (NIELIT), the College has set up a study Centre under Department of Information Technology, Govt. of India, approved by AICTE. It is there on the ground floor of the Science building, imparting compulsory Basic Training in computers to all the students and some of the administrative staffs at a nominal cost. This centre is popular among the students as DATA-Q (Code: 88000030). In 2008 the Directorate of Higher Education accorded the permission for conducting IT education at Bidhannagar College and DATA-Q got the accreditation of B-Level, equivalent to MCA being recognized nationally.

14. Proper Women's Sexual Harassment/ Grievance Redressal Cell needs to be established as per UGC norms.

An Internal Complaints Committee (ICC) has been set up under the Teachers Council for dealing with the complaints filed under the Sexual Harassment of Women at Workplace (Prevention, Prohibition and Redressal) Act 2013. Complaints to the Committee can be lodge in person to the Convenor of the Committee or can be dropped in the Drop Box located outside the Principal's chamber. The procedure is based on the principles of natural justice. The college has also constituted a Gender Sensitization Committee against sexual harassment. Complaints can be lodged once again either physically or through e-mail.

15. Proper career counseling and placement cell with facilities for competitive examinations coaching facilities needs to be started.

The College has set up a Career Counselling Cell which functions on a regular basis and brings in industry placement experts for students' career counselling. The Career Counselling and Placement cell under the Teachers Council has been very active since the last few years. It organized several seminars, interactive sessions, Industry-faculty meet, recruitment drives and awareness programmes. A list in this regard is given below.

- i) 15th January, 2013: the Textile Committee, Government of India (Ministry of Textile) conducted an 'Awareness Programme on Handloom Mark Scheme'.
- ii) 19th February, 2013: The ICFAI University conducted a seminar on 'Future Career Prospects of students after graduation'.
- iii) 6th March, 2013: Vista-Mind conducted a seminar on 'Nature of Jobs after graduation'.

- iv) 16th.Sept 2013: The National Skill Development Corporation (NSDC) of the Ministry of Finance, in collaboration with Orion Edutech Private Limited conducted a career counselling programme.
- v) 16th.Sept 2013: The Talent Acquisition Manager of Met Technologies conducted a Campus Recruitment Programme.
- vi) 23rd.Nov.2013: A seminar was held by WLC for the final year students.
6th.Dec.2013: A seminar was held on 'Alternative Career Options'. The speakers on the occasion were :
 - S.V.Raman, former Programme Director, Goethe Institute, Max Muller Bhavan, Kolkata.
 - Abhijit Dasgupta, former Station Director, Doordarshan.
 - Sandip Mitra, Kolkata Campus, WLC College.
 - Debarati Majumdar, Head of Admission, United World School of Business.
- vii) 9th.April.2014: A workshop on Career Opportunities in Official Statistics with special reference to NSSO was held.
- viii) The College has a NET – SET coaching programme fully-funded by UGC to impart training for success of SC / ST minority students in NET – SET examination

16) Office Management needs to be strengthened by an Administrative and an Accounts Officer

Bidhannagar College lies under the administration of Higher Education Department, Govt of West Bengal. The College being a Government College does not have the provision for the placement of an Administrative or Accounts Officer. The Principal with his office looks after the administrative affairs As well as the accounts affairs of the College. Hence as per provision the posts of Accountant & Cashier is filled up to do the needful.

ANNEXURE

ANNEXURE -I**PUBLICATION LIST (2010-2015)****ANTHROPOLOGY****PAPERS**

- 1) Guha, Sankha Priya, 2011, Ecocities Formation through Cultural Practices, **Journal of Indian Anthropological Society**, Vol. 46:191 – 203.
- 2) Guha, Sankha Priya, 2013, Capitalism in Agriculture and the Cultural Identity of the Labours: A case study from a village in West Bengal, **Journal of Indian Anthropological Society**, Vol. 48: 257 – 262.
- 3) Chanda, Sudesna, 2013, Risk of Chromosome damage as cancer initiator among the mobile phone users: A call for management practice, **Journal of behavioural management**, Vol. 1: 167- 172.
- 4) Polley, Krishnendu, 2010, A Preliminary study on the Stone Age Cultures of Khuntly and its Adjoining regions, **Puratatva**, Vol. 40: 51-70.
- 5) Polley, Krishnendu, 2010, Flint Knapping Experiment: An Overview in Indian Context.”, **Journal of the Indian Anthropological Society**, Vol. 45: 307-314.
- 6) Polley, Krishnendu, 2012, Materiality’ Revisited: Relevance of Material Culture Studies in the Contemporary Era, **Journal of the Department of Anthropology, University of Calcutta**, Vol. 14-15: 1-14.
- 7) Polley, Krishnendu, 2015, Relations between rock art and ritual practice: a case study from eastern India, **Archaeological Research in Asia**, Vol. 3: 34-48.
- 8) Chakraborty, Kartick, Chatterjee, Dipankar, Das, Arnab, 2012, Provisions and Perception of the Hosts in Business at Digha: A Study of Beach Tourism in India, **Anthrocom online journal of Anthropology**, Vol.8.

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1. **Guha, Sankha Priya**, 2014, Anthropology of Space, Avenel Press, Kolkata.
2. Mitra, Debasish, Datta, Sayantan, **Guha, Sankha Priya (ed)**, 2015, From Slumber to Action: Managing the Disaster. Avenel Press, Kolkata

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- 1] **Guha, Sankha Priya**, 2012, Biswanath Babu: The Teacher of my Life in Dipak Piplai (Ed.) Mastermohai – The Teacher (A Commemorative Volume). Adhyapok Biswanath Bandopadhyay Smritirokha Samiti, Kolkata.
- 2] **Guha, Sankha Priya**, 2015, Urbanization and Contradiction: A duality of self and others in Contested Space in S.K. Samanata (Ed.) Development for the Communities and Country. Kolkata: Pragatishil Prakashan.
- 3] **Bhattacharya, Kaushik**, 2012, Bojhaalen Srashtake Baad Diye Srishti Noy (in Bengali) – in Dipak Piplai (Ed.) Mastermohai – The Teacher (A Commemorative Volume). Adhyapok Biswanath Bandopadhyay Smritirokha Samiti, Kolkata.

- 4] Polley, Krishnendu, 2013, Prehistoric art, Artifact and Gender: A Case Study from Eastern India, Gendering Material Culture: Representation and Practice. (Ed.) Subhadra Mitra Channa and Kamal K. Mishra. Rawat Publications, New Delhi, 65-78.

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1. **.Polley, Krishnendu**, 2011, Kurshiburu: A Rock Art of Eastern India, Published in Proceedings of XXIV Valcamonica Symposium, Capo di Ponte, Italy, 354-359

BOTANY

PAPERS

1. Saha Jayita, **Mukherjee Sumona**, Gupta Kamala, Gupta Bhaskar, 2013, *High-performance thin-layer chromatographic analysis of antioxidants present in different parts of Saraca asoca (Roxb.) de Wilde*. **Journal of Pharmacy Research**, Vol. 7: 798-803. (international journal)
2. Saha Jayita, Mitra Taniya, Gupta Kamala, **Mukherjee Sumona**, 2012, *Phytoconstituents and HPTLC Analysis in Saraca asoca (Roxb.)Wilde*. **International Journal of Pharmacy & Pharmaceutical Sciences**, Vol. 4: 96-99.
3. Bandyopadhyay Atrayee, Ghosh Anurupa, Mukherjee Anita, **Mukherjee, Sumona**, 2010, *Modulatory Effects of Sound on Heavy Metal Toxicity in Root Meristematic Cells of Allium cepa L.* **Journal of Botanical Society of Bengal**, Vol. 64: 119-123. ISBN 0971-2976 (national journal)
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ANNEXURE -II

- 1. Affiliation – Section 12 (B)**
- 2. Affiliation – Section 2 (F)**
- 3. Certificate of Accreditation of Cycle -1 (2006)**

UNIVERSITY GRANTS COMMISSION
 BAHADUR SHAH ZAFAR MARG
 NEW DELHI.

F.No.3-46/57 (DPP-1)

The Development & Planning Officer,
 Calcutta University,
 Calcutta-700 073.

11 JAN 1995

Sub:- List of Colleges prepared under Section 2(f) of the
 UGC Act, 1956-inclusion of New Colleges.

Sir,

I am directed to refer to your letter's No.U.G.C./2401/L/
 2/ UGC/1697/L-8 & UGC/1797/L-8 dated 10.3.94, 14.11.94 & 15.12.93
 on the above subject and to say that the names of the following
 three college's have been included in the above list under
 Non-Govt. Colleges teaching upto Bachelor's degree :-

Name of the College	Year of Estt.	Remarks
1. Charuchandra College, 22 Lake Road, CALCUTTA-700 029. (Dr. D.C. Dev)	1947	All the College are declared fit to receive Central Assistance from U.G.C. and other Centr Sources in terms of the rules framed under Section 12 (B) of the UGC. Act, 1956.
2. Kalinagar Mahavidyalaya, Kalinagar, Distt. 24 Parganas-743 442 (Sh. A.K. Sarker)	1925	
3. Bidhannagar College, Block BF, Salt Lake, CALCUTTA-700 064 (Sh. A. Chakravarti)	1984	

Yours faithfully,

R.L. Sondhi
 (R.L. SONOHI)
 UNDER SECRETARY

Copy forwarded to :-


- The Principal, Charuchandra College, 22 Lake Road, Calcutta-
Pin-700 029.
- The Principal, Kalinagar Mahavidyalaya, Kalinagar, Distt. 24 Parga
- The Principal, Bidhannagar College, Block BF, Salt Lake, Calcutt
Pin-700 064.
- The Secretary, Govt. of India, Ministry of Human Resource
Development, Deptt. of Education; T-14 Section, New Delhi.
- All Officers/Sections in the UGC Office.
- S.O. (FD-III Section/CN-IV Section), New Delhi.
- Guard file.

(B.D. MEHTA)
 SECTION OFFICER

Inf. f.c. file 1.1.95

Affiliation – Section 12 (B)

13/9/97



UNIVERSITY GRANTS COMMISSION
BAHADUR SHAH ZAFAR MARG
NEW DELHI-110 002.

13th Sept., 1997.

Sl. No. 6-48/87(CPP-I)

OFFICE CORRIGENDUM

The name of the Bidhannagar College, Block BF-142, Salt Lake, Calcutta, affiliated to the Calcutta University, Calcutta has been included in the list of colleges maintained by the Commission, under Section-2(f) of the UGC Act, 1956 vide this office notification of even number dated the 11th January, 1995.

Inadvertently, the name of the college has been shown in the said list, under the category "Non ~~Govt~~ Government Colleges teaching upto Bachelor's Degree".

Since it is a Government College, the name of the said college is transferred to the category "Government Colleges teaching upto degree level", in the UGC list of colleges maintained under Section - 2(f) of the UGC Act.

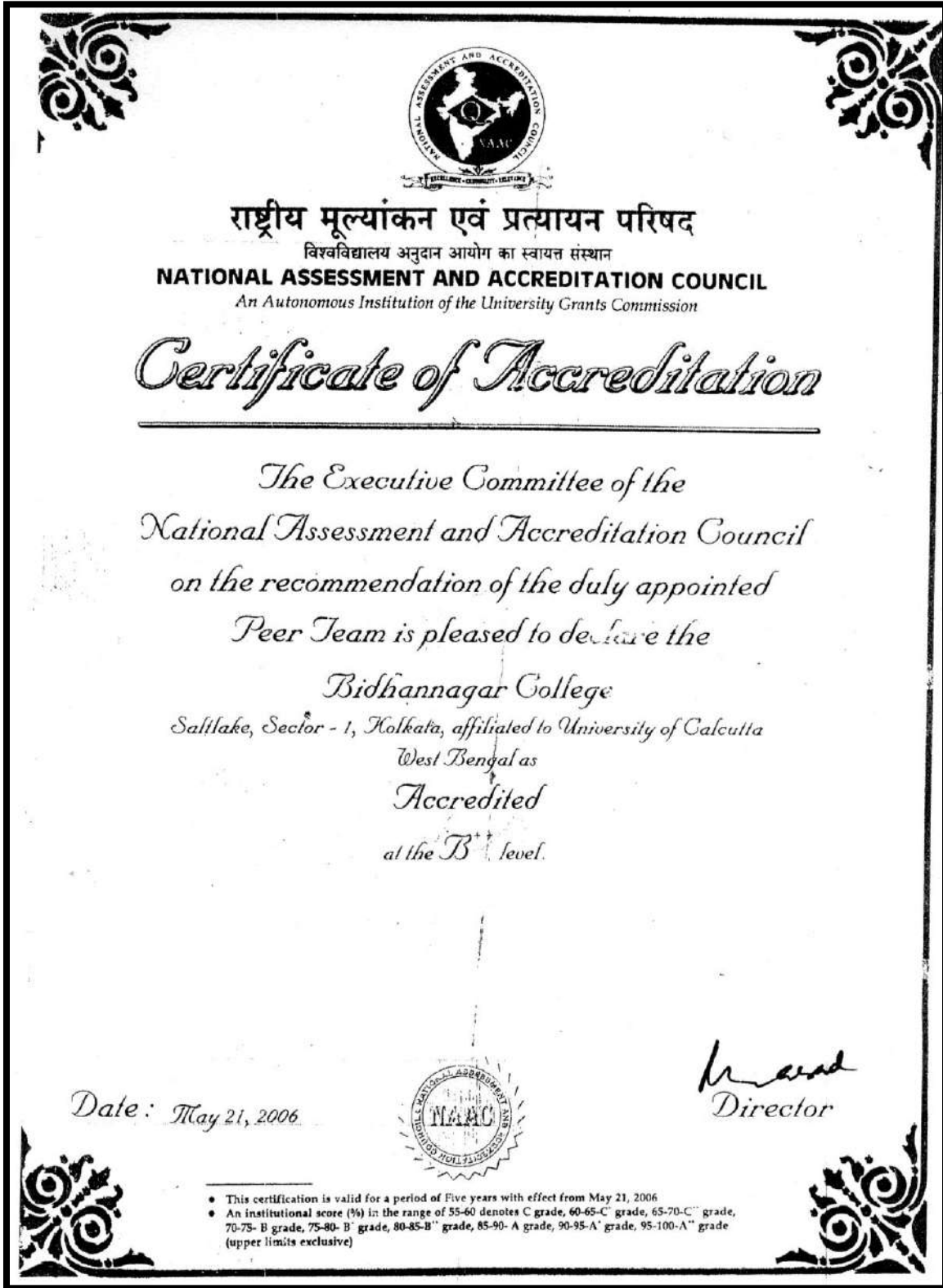
sd/-
(D.D. Mehta)
Under Secretary.

Ref. No. UGC/1330/L-8, dated 5.11.1997.

Copy forwarded for information and necessary action to :-
The Principal, Bidhannagar College, Salt Lake,
Block-BF. 142, Calcutta-700 064.

(D.P. DE)
Dev. and Planning Officer,
Calcutta University. (D.D.)
6.11.97

Affiliation – Section 2 (F)



Certificate of Accreditation of Cycle -1 (2006)

**PRINCIPAL'S
DECLARATION**

OFFICER - IN - CHARGE
BIDHANNAGAR COLLEGE
 Govt. of West Bengal
 EB-2, Sector - I, Salt Lake
 Kolkata - 700 064
 Phone : (033) 2337 4761, 2337-4782
 E-mail : principal@bidhannagarcollege.org



বিধাননগর কলেজ

পশ্চিমবঙ্গ সরকার
 ই. বি. - ২, সেক্টর - ১, সল্টলেক
 কলকাতা - ৭০০ ০৬৪
 দূরভাষ - (০৩৩) ২৩৩৭-৪৭৬১
 (০৩৩) ২৩৩৭-৪৭৮২

Ref. No. 2069.....

Date 26.07.2016..

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 produced by the institution after internal discussions, and no part thereof has been outsourced.

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:

OFFICER-IN CHARGE
 Bidhannagar College
 EB-2, Salt Lake, Kolkata - 64
 GOVT. OF WEST BENGAL

Place:

Date:

