



**MAULANA AZAD COLLEGE**  
8 RAFI AHMED KIDWAI ROAD, KOLKATA-700013  
[www.maulanaazadcollege.in](http://www.maulanaazadcollege.in)



College with Potential for Excellence (2010)  
Recipient of DST-FIST  
Under DBT Star College Scheme

# **SELF STUDY REPORT**

## **ACCREDITATION CYCLE II**



Submitted to:

**NATIONAL ASSESSMENT & ACCREDITATION COUNCIL**

**P.O.BOX-1075, NAGARBHAVI, BANGALORE-560072**



*"Education imparted by heart can  
bring revolution in the society"*

*Maulana Abul Kalam Azad*



Govt. of West Bengal

# Maulana Azad College

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Memo No. 502/NAAC

Date: 14/12/2015

## Certificate of Compliance

(Affiliated/ Constituent/ Autonomous College and Recognized Institutions)

This is to certify that Maulana Azad College, 8, Rafi Ahmed Kidwai Road, Kolkata 700013 fulfils all norms

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

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

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

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the undertaking submitted by the institution is found to be false then the accreditation given by NAAC is liable to be withdrawn.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

(Dr. Bijoy Krishna Roy)  
Principal/ Head of the Institution

(Name and Signature with Office seal)

Date: 14.12.2015

Place: Kolkata

Principal  
Maulana Azad College  
Kolkata



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## **SECTION A: Preface**





## **Preface**

Maulana Azad College, Kolkata, a premier Government college of West Bengal, has a history of sustained development since 1924. Lord Lytton, the Governor of Bengal, had laid the foundation stone of Islamia College on 9<sup>th</sup> December, 1924. Largely responsible for the establishment of the institution was Mr. A.K. Fazlul Haq, the Education Minister of Bengal at that time. The college formally opened its doors on 2<sup>nd</sup> July, 1926, after getting a favourable report from Dr. H.C. Mookherjee, Inspector of Colleges, Calcutta University and started its glorious journey under the efficient leadership of the Principal, Mr. A.H. Harley, who was previously an Assistant Professor of Oriental Languages at Edinburgh University, UK. The main objective was to promote Islamic learning and general education among the Muslims in British India and very soon, the college attained a distinguished position in the field of education. After Independence, the practice of admitting students of all caste, creed and religion was initiated and the changing nomenclature of the institute was reflected in 1948 through its altered name—Central Calcutta College. Professor F.J.F. Pereira took over the leadership of Central Calcutta College as its Principal. The name of the college was finally changed to Maulana Azad College in 1960, in memory of the great national leader, erudite scholar and first Education Minister of Independent India—Maulana Abul Kalam Azad. Prof. B.C. Mukherjee (who later became the Hon'ble Vice-Chancellor of Vidyasagar University, W. Bengal) was the first Principal of Maulana Azad College. The year 1990 was another landmark in the history of the college as it was declared a Co-Educational institution.

Eminent scholars have taught at this prestigious college and enhanced the academic quality of the students. The college had distinguished professors like Bishnu De, Professor of English, Bhabatosh Dutta, Professor of Economics, Bhupesh Mukherjee, ex-Vice Chancellor of Vidyasagar University, P. C. Mukherjee, Professor of Chemistry and ex-Vice Chancellor of NBU, P. K. Mukherjee, ex-Vice Chancellor of Jadavpur University, Kiran Ch. Sen, Professor of History, Raza Ali Wahshat, Professor of Urdu, Md. Saber Khan, Professor of Islamic History and ex-DPI, R. N. Sengupta, ex-DPI and Tapan Roy Chowdhury, Professor of History.

The college presents one of the most striking examples of harmonious co-existence amidst the plurality of language and culture. It can boast of its illustrious alumni comprising notable personages like Sk. Mujibur Rahman, ex-President of Bangladesh, Bimal Krishna Motilal, Professor at Oxford University, Prof. B K Chakraborty, Bhatnagar Laurate, Ex-Director of the Saha Institute of Nuclear

Physics and also alumnus of MAC, Prof. Basudev Chattopadhyay, Ashutosh Professor of History at C.U., Ashok Ganguly, Judge at Orissa High Court, K. M. Yusuf, Justice at Calcutta High Court, apart from several nationalists, ministers, Accountant Generals, IT Commissioners, novelists, IAS, IPS and WBCS officers.

The College was recognized as a Centre with Potential for Excellence (CPE) by the University Grants Commission during the Eleventh Five-Year plan. Maulana Azad College was also identified as one of the few colleges in West Bengal to receive grants under the DBT STAR COLLEGE Scheme for four consecutive years. The DST, Government of India, has supported the college in two phases under its FIST Assistance Scheme. The Indira Gandhi National Open University (IGNOU) houses one of its most thriving study centres here and shares its material and human resources. The institution has been affiliated to the University of Calcutta (C.U.) since its inception. The University of Burdwan, Jadavpur University and Viswa Bharati, in addition to C.U., have recognized this college as a centre for carrying out Ph.D. research work. Since its last NAAC accreditation, 66 research projects, with a substantial outlay, have materialized and nine students of this college have been awarded the Ph. D degree. The college is under administrative control of the Government of West Bengal.

University results of this college depict good academic record of all disciplines consistently. Since the time of initial accreditation, Honours course in Botany, and Post Graduate courses in English and Urdu have been introduced. Career-oriented French Language course has also commenced. Moreover, the prevalent Remedial Coaching seeks to benefit weak students.

This college is proud of its academic community, which strives to impart quality education and is a relentless guiding force for the students. Peer-reviewed publications with ISSN number, like the Journal of English, MAC Journal of Languages and Social Sciences, and MAC Journal of Basic and Applied Sciences, reflect the academic pursuits of the faculty members.

An educational institute requires a healthy environment and effective infrastructure to realize its fullest potential. The Self Study Report reveals the existence of infrastructural support that is imperative to fulfil the goals and objectives set by the college. It is of utmost significance that the college has entered into a MOU with the Airport Authority of India, for improving the Communicative English skill of their newly recruited batch of employees. The Placement Cell of the college successfully caters to the job opportunities for students. Establishment of a new block of the

Boys' Hostel and the ongoing work for a Girls' Hostel are adding to the existing infrastructure. The college has two canteens, a gymnasium, and a well-stocked Digitised Library besides a Grievance Redressal Cell, an Anti-Ragging Cell and the National Service Scheme.

A campus-wide internet link has been developed for students, research scholars and teachers. The college has taken a step towards e-governance and one instance is reforms in administrative governance (COSA) as well as in library documentation (KOHA, INFLIBNET).

This institution discourages gender discrimination and is trying to realize the objective of women's empowerment, as evident from the projects on Women Entrepreneurship and Computer Training for women of minority and of other backward classes.

We are optimistic that in near future the college will have more research facilities, increasing interface with emerging industries, diversified interdisciplinary activities, combining professionalism with humane values.

The college had its first NAAC Peer Team visit in 2007 and earned 'B++' grade. The post-accreditation initiatives towards an all-round improvement of the college have been undertaken since then, with the establishment of IQAC to maintain the inclusiveness of education without compromising the quality of teaching - learning and academic excellence. The college has taken significant measures for a holistic academic ambience in accordance with the valuable suggestions of the NAAC Peer Team. Now, the college wishes to take the opportunity of the second cycle of accreditation by the National Assessment & Accreditation Council (NAAC) and accordingly, a Self Study Report (SSR) has been prepared in compliance with the NAAC guidelines with utmost sincerity and honesty. While preparing this report we had the opportunity to evaluate and assess our activities and performances, our strengths, weaknesses and challenges, our constraints and opportunities based on the prevalent feedback system of our college. We think that the assessment and accreditation is one of the most important initiatives for the future improvement and progress of the college as a centre of excellence.

We extend our sincere gratitude to the first cycle NAAC Peer Team, the Directorate of Public Instructions, the Department of Higher Education, and PWD, Government of West Bengal; the University of Calcutta, UGC, DST, DBT, IQAC, the NAAC Steering Committee, all other faculty members and staff of our college and alumni association for their rigorous involvement in the preparation of SSR.

**Principal, Maulana Azad College, Kolkata**



**SECTION B:**  
**Executive Summary & SWOC Analysis**



## Executive Summary

### Criterion I: Curricular Aspects

- ❖ There are twenty two courses affiliated to the University of Calcutta in Arts, Science and Commerce streams which are offered to the Undergraduates comprising of twenty Honours courses and two General degree courses respectively. Three autonomous Post Graduate degree programmes in Zoology, English and Urdu are currently operative and affiliated to the University of Calcutta.
- ❖ A number of teachers are members in the Undergraduate and Postgraduate Board of Studies in home and other universities. Besides, all teachers take part in curriculum designing through workshops and deliberations.
- ❖ Interdisciplinary approach is reflected in choice of subsidiaries that is offered to an entrant. With as many as six modern and classical languages and six more subjects to pursue under Social-sciences, with all fundamental sciences and interdisciplinary curricula in Microbiology to explore and with opportunity of pursuing Accounting and Finance, this college exhibits a range in variety which is rare in this part of the region.
- ❖ The admission is completely based on merit and the college is continuing to attract students from all corners of this state and from adjacent states. Since it was declared co-educational, there had been a steady increase in number of girl students and many of them are first generation learners.
- ❖ The college strictly adheres to reservation policy of the state and a large section of students come from socially and financially challenged families.
- ❖ Consistent with its vision and mission, the college operates a number of support schemes for deserving students. Schemes aimed at women empowerment have been astutely harnessed by the dedicated team of faculty and staff members.
- ❖ Irrespective of their caste, creed and religion, the students and all other stakeholders trust this college as one of the major institutions of higher learning that remains unfailingly dedicated to its social responsibilities. The college continues to be an epitome of amity and unity among substantial diversity that its students and staff reflect.
- ❖ The demand to admission ratio has been improving steadily and so is the success rate. The number of rank-holders has been consistently bettered.
- ❖ Hands-on training programmes, projects, student publications, have become

important part of curriculum enrichment initiatives. The benefits of these initiatives are reflected in high success rate of students from the science streams in national level competitive examinations for entry into premier research institutions and universities has been encouraging.

- ❖ The college itself ran a number of study centres to help both internal as well as external students crack various competitive exams (NET, SET, UPSC, WBCS, and Madrasah Service Commission etc.).

### **Criterion II: Teaching-Learning and Evaluation**

- ❖ The faculty of this college, excepting the Part-time teachers and the Guest teachers, belong to the West Bengal Education Service (WBES) and West Bengal Senior Education Service (WBSES). Eligible Part time teachers and Guest teachers are engaged only after getting the approval from Higher Education Department.
- ❖ Among the 110 (103 WBES+ 7 WBSES) sanctioned posts 92 (90+2) are filled at the moment. Out of our 92 full time teachers 54 are Ph.D. degree holders. All Part Time Teachers are NET/SET qualified except the retired teachers. Highly experienced teachers and professionals are engaged as Guest teachers.
- ❖ Teachers regularly act as resource persons in external agencies and won recognitions in academic, administrative and co-curricular fields. Feedback from students, peer bodies and self assessment are three important tools in evaluating a teacher's performance in this institution.
- ❖ The Department of Sociology, History, Political science and Philosophy undertakes research on gender issues, organizes seminars and various other programmes to discuss and deliberate on gender issues.
- ❖ A Cell against sexual harassment is there in place. Different community development programmes like Blood-donation camps, drinking water monitoring facility, socio-cultural meets like Iftar, Milad-un-Nabi, Swaraswati Puja, and Independence Day and Republic Day celebrations in the locality are centred on this college.
- ❖ The College has excellent library resources. Apart from near about 90,000 books, the DELNET INFLIBNET connected library subscribes to 29 journals and one hugely resourceful E-inventory like JSTOR. An archive of old and rare books has been recognized by the National Achieves.
- ❖ College magazine, little magazines published jointly by students and teachers,



periodicals on environmental issues environment awareness, visits to research institutes, and industries, field tours, cultural programmes & competitions like drama, quiz, youth –parliament etc are some of our student-centric initiatives.

- ❖ The college is fully managed by the Government of West Bengal and therefore, the services of the staff including that of the Principal, is transferable. Despite that, the college makes all effort to maintain a commendable teacher –student ratio.
- ❖ Retraining the staff and faculty through computer training is under active consideration of the Institute.
- ❖ Computer skill and literacy development programmes for Girl students from economically challenged backgrounds and minorities are being conducted every year and easily rated as one of our more popular student-centric initiatives.

### **Criterion III: Research, Consultancy and Extension**

- ❖ Since last accreditation in 2007, at least 67 research projects were handled by the teachers of which 12 were Major Research Projects funded by UGC, DST, DBT, SERB (Fast Track), ICMR, NTRF etc. Thirty of these have been completed and rest are ongoing.
- ❖ 45% of our teachers have had projects of their own during this period. Teachers attended 19 capacity building programmes in institutions outside during the last four years. At least 20 scientists, members of our alumni included, took part in interactive sessions in the college as parts of workshops, seminars and peer meet programmes.
- ❖ During the period under reference, academicians, personalities from Judiciary, Drama, Music, Films and various other spheres of performing arts and academics have visited this college. Prof. Tapan Roy Chowdhury and Prof. William Radice of Oxford, Prof. George James of North Texas, Prof. Akhil Banerjee of Indian Institute of Immunology, Prof. Sunanda Banerjee of LHC, CERN project, Justice Chittatosh Mukhopadhyay, singer, playwright and Film director Anjan Dutt, Poet Joy Goswami, Prof. Amitava Roychowdhury, Bhatnagar Laurate, Dept. of Physics, University of Calcutta and also Ex Director of HRI, Allahabad, Jnanpeeth awardee Poet Jayanta Mahapatra, Academy award winner Sanjib Chattopadhyay, Javed Akhtar are to name just a few among those glitterati.
- ❖ The publication profile of last four years show steady increase in both number and quality of the papers published over time. During the referred period,

Teachers have received visiting fellowships like Fulbright-Nehru Visiting Fellowship in USA. Our faculty had been part of international environment project funded by NSF, USA during the years of report. There have been two MOUs with AAI and DBT respectively. Dr. Pradip Kumar Kar, is the Indian PI of National Science Foundation (USA), Planetary Biodiversity Inventory grant of US\$ 3 Million, sanctioned to Prof. Janine Caira of University of Connecticut in 2008, as part of the M.O.U. signed between Dr. Pradip Kumar Kar and the Provost, University of Connecticut.

- ❖ The institution has a body in place for liaisons on linkage establishment and implementation. The college responds to all available opportunities to strengthen its resources. Our response to invited proposals by UGC, DBT, DST etc have yielded positive results.
- ❖ The institution engages eminent academicians as Guest Faculty, as members of the Board of studies and as Advisors in funded projects.
- ❖ There are two patents to the credit of this institution and six research fellows have been awarded Ph.D. degrees under University of Calcutta and Visva Bharati.
- ❖ Our Lab to Field initiatives has brought to light the state of quality of drinking water available in Government Hospitals, in canteens of select colleges in the city and also that of food and vegetables.
- ❖ The college volunteers in imparting and sharing biodiversity issues with school children and a dedicated Biodiversity Centre (SEBCA) is operating and liaise the process.
- ❖ In order to take up small scale research project in socio-cultural issues, the college provided limited amount of seed money under CPE assistance scheme of UGC. 8 such projects were completed in this period and a publication titled “Women, Work, War and Well being” (ISBN 2395-2431) has resulted.
- ❖ The institution garnered good support for student research from various agencies like UGC, DST, DBT and several student publications have been reported. Several interdisciplinary programmes have been organized among which Hands-on training programmes are most important.
- ❖ To optimize resource sharing, the college has developed a Central Instrumentation Centre. Several high –end instruments like FTIR, GELDOC console, Lyophilizer, UV-Vis Spectrophotometers, Thermal amplifiers, Animal

- and Plant Tissue culture laboratories,
- ❖ Animal house etc. Has enabled us to pursue meaningful research in this college with significantly reduced need of knocking the doors of other institutions.
  - ❖ 15 collaborations have been recorded in this period and some of these are international projects undertaken with European and American Universities.
  - ❖ The college publishes three peer reviewed journals in addition to the college magazine and other little magazines published by the students.
  - ❖ Being a Government College, there is little scope of generating or mobilizing resources from consultancy, but, some significant contributions have been made by the faculty in this area as well.
  - ❖ Our Institutional Social responsibility is not only reflected in having a strong NSS unit but also in nurturing an environment awareness centre and maintaining close contact with people of the locality who together with us take part in socially relevant ceremonies and celebrations. The institution round the year monitors drinking water quality of the area, checks presence of vector mosquito larvae, if any, in accumulated water, arranges Iftar during fasting of Ramadan, arranges workshops on women entrepreneurship, arranges Doctor Meet from time to time on women's health and general health.
  - ❖ Students and teachers won several accolades. A NCC cadet has received the Governor's medal in Republic Day parade in 2015, an athlete has represented National Games in Track and Field, and another student is in receipt of Fellowship of Sangeet Natak Academy. There are Teachers too who have won laurels as dramatists, actors and directors.

#### **Criterion IV: Infrastructure and Learning Resources**

- ❖ The Institution aims at providing a threshold level of instrumental and logistic support to its students. During the period of report, laboratories and libraries have been substantially upgraded.
- ❖ Successful implementation of benchmarking requirements allowed us to mobilize resources from UGC, Central and State DST and DBT. Furthermore, curricula are augmented by extensive inclusion of Add-On programmes and by encouraging the students to take central roles in designing and carrying out several significant projects.
- ❖ The student: teacher ratio had always been healthy and all teachers including the part-time teachers are essentially qualified as per UGC norms.

- ❖ The college, besides several IT enabled classrooms and laboratories, has a Central Instrumentation Facility.
- ❖ Apart from central library, there are about 20 seminar libraries from which students can borrow books. The students and teachers alike can access digital resources and inventories from a common high efficiency server platform.
- ❖ There is a well maintained medicinal garden in the premises of this college.
- ❖ The playground and club house are located off campus at 33, Gorachand Lane. Several major outdoor and indoor games facilities are available. The college had University Blues in Athletics, Basketball and Badminton during the years under review.
- ❖ The canteen and recreational facility for the students are regularly monitored by a dedicated committee. All major events of national and regional importance are observed and an Annual Fest is organized by the students. The students take part in Drama, Debate, Quiz and Youth Parliament and commendable achievements of the staff and students of this college in performing arts have been recognized both at National and State level.
- ❖ The college has boys' hostels with two buildings named Baker Government Boys' Hostel and Bangabandhu Annex Building named after the first President of Bangladesh Sk. Mujibar Rahaman who was an alumnus of this Institution. 600 boarders are accommodated there.
- ❖ Another UGC funded Hostel exclusively for girls' is coming up soon.
- ❖ The college has had a limited Medical Check up facility at the Hostel campus and each of its students is a beneficiary of State run Students Health Home located close by.
- ❖ Several other student centric initiatives like the grievance Redressal cell, the Women's Cell, the Career Counselling and Career guidance Cell and placement unit, a cell against sexual harassment and an anti-ragging cell are operative in the college.

#### **Criterion V: Student Support and Progression**

- ❖ The college maintains a transparent and open admission policy and engages professionals to facilitate fully online admission and data management. The students also get to know about all welfare schemes available to them through our multipronged information percolation initiatives.
- ❖ The government guidelines for reservation of seats are strictly adhered to. On an

average nearly 50% of the students receive scholarships from the government agencies every year. Majority of them belong to minority communities and the number of beneficiaries steadily increased over these years.

- ❖ Remedial coaching , coaching for Entry into Services, certificate course in ICT skill development and mathematical skill development are some of our catch-up programmes which have benefitted a number of students .
- ❖ Our interaction with industry can best be exemplified by National Tea Research foundation (NTRF) awarding a major research project in the Zoology department and Airport Authority of India approaching the Department of English for Skill development in Communicative English for its newly recruited batch of employees.
- ❖ Students from the Science Departments regularly interact with industry and research institutions. They actively participate in different Seminars & Workshops organized by renowned institutions.
- ❖ Science Students regularly undertake academic excursions and visits to various firms and institutes as a part of their academic courses. The students get exposure to research and higher learning through Peer Meets, about 35 of which were arranged in last four years.
- ❖ College students publish a literary magazine and an environment awareness periodical. Three journals are published by the college.
- ❖ The College has organized two UGC sponsored career-oriented Entrepreneurship programmes for Girl students under its CPE scheme in association with NGOs. The College had been the Eastern regional nodal centre for training and workshop on Women Managers.
- ❖ Sportsmen are given preference in admission as per rules and provided with kits and coaching assistance.
- ❖ The College has a Career Counselling Cell which regularly interacts and brings in industry placement experts for students career counselling. The number of campus placements is increasing.
- ❖ The Cell against Sexual Harassment is open to any exigencies which are brought to their notice. Not a single case, however, been reported till date. The Anti – Ragging cell deals with the erring students in case of complaint and the issues are usually resolved by the Hostel Committee
- ❖ The results of the students in the University examination have shown remarkable

improvement after UGC-CPE and DBT-Star College recognitions were conferred. Pass Percentage was always very high, but, the increase in number of students obtaining First Class and obtaining Ranks has shown improvement over these four years.

- ❖ Majority of Graduate students take to Post-graduation after completion in college. Students have been doing remarkably well in All India entrance Examinations for Ph.D. and P.G degrees.
- ❖ The risk of drop out is minimized by offering the students opportunity to pursue Distance Education Programme under IGNOU in our college premises itself. Remedial coaching is offered in all the subjects and the facility is open to all students whoever wishes to take the opportunity.
- ❖ The college women's badminton team champion in inter college tournament in 2010-11 and Men's Team was Runner Up. Both boys and girls take interest in sports and games and almost regularly our students, one or the other, get nominated for University Blue.
- ❖ The college has a rich heritage of cultural activities and teacher, staff and student combination has been doing wonderfully well in National Forum in theatre.
- ❖ Feedback mechanism of the college is time tested. Feedback is collected in prescribed proforma from the outgoing Third year students on curriculum. Feedbacks are collected from participants from all enrichment programmes and remedial programmes. Feedbacks are received from peers, funding agencies, Accountant General's office. The faculty have the opportunity to submit feedback report in Self Appraisal mode. All inputs are discussed threadbare and action taken to overcome the deficiencies.
- ❖ The college has an elected students' body and the General Secretary is member in IQAC and Governing Body. The Students' Union, as stakeholders, can deliberate on the issues of Students' interest and help in maintaining the general order and discipline inside the college.
- ❖ The alumni have very strong bonds with the college and their vision is helpful in maintaining general quality and ambiance of the college.

**Criterion VI: Governance, Leadership & Management**

- ❖ The administrative facilities of the college have been upgraded in order to keep pace with the dynamic growth trajectory of the college. The admission process has been transformed into an online mode from 2013 for smooth conduction and management of the huge number of applicants.
- ❖ A well laid out college website gives a thorough glimpse of salient features and courses offered by the college.
- ❖ CCTV facility has been installed at various important points including the main entrance point, Principal's chamber, library etc. To keep a close vigil of the affairs.
- ❖ The Teachers Council is the representative body of all teachers with Principal (ex officio) as the President. A number of subcommittees are in charge of the various administrative and academic matters.
- ❖ A useful blend of top down and bottom up approaches ensure smooth running of the college affairs. The Director of Public Instruction, Government of West Bengal sits at the highest rung of the Governing Body of the college.
- ❖ Incorporation of key findings from Feedbacks of the students had been an important parameter in the college's planning procedures. Benchmarking is the principal way of reinforcing the culture of excellence.
- ❖ Organizational change is decided upon by the Government, but, academic autonomy in PG courses does exist.
- ❖ The young members are gradually exposed to the affairs of admission, discipline maintenance, evaluation, budgeting and purchasing etc through their participation in different sub-committees.
- ❖ The General Secretary of Students' Union is a member of the IQAC as well as the Governing Body. Involving students and giving them responsibilities help build their character and inculcates the pride they carry forward in being students of this college.
- ❖ Since 2010-11 the college is following the UGC-CPE assistance scheme as model for delegating power and operational autonomy towards a decentralized governance.
- ❖ Our policy on strategy development is based on inclusiveness without compromising with the quality. The deployment of this policy is reflected in many aspects like its admission policy and a number of support schemes

available to the students. The Principal ensures support in implementation of these strategies by delegating power to academic and administrative staff to effectively garner their support and involvement.

- ❖ The college has a functional Grievance Redressal Cell and an Anti-Ragging Cell which are vigilant enough to pre-empt and prevent any untoward occurrence in and outside the college.
- ❖ Evaluation of the efforts put in by the members of the staff is recorded by the Principal in Annual Confidential Reports (ACR) prepared for each employee. Performance Appraisal Reports are integral parts of CAS procedures. Both procedures entail percolation of information if inadequacy is to be reported.
- ❖ There are some benefit schemes for the staff. Most importantly, all desirous teachers and non-teaching staff and their dependent family members have been brought under WB health scheme under which they can avail cashless benefits amounting to Rs.1,00,000/- if hospitalization is required. Training programmes on computer skill development for staff members were arranged.
- ❖ There are established transparent procedures and processes for planning and allocation of financial resources. External audit is done by Government Auditors. Audit of other grants (UGC, DBT, and DST) is done by reputed Chartered Accountants.
- ❖ In compliance with NAAC recommendations, the IQAC was established in August 2008. It has external members in the form of representatives from the Government, University and the Kolkata Municipal Corporation. The Institutional policy was guided by its vision statements. The IQAC is functional in planning and implementation of infrastructural and academic upgrades.
- ❖ The college involves several external quality assurances benchmarks in upholding its goal. This college is an oasis of harmony and amity among the religiously and economically diverse community of students and staff. The Governance and management policies are aimed at upholding and inculcating this spirit.

### **Criterion VII: Innovations and Best Practices**

- ❖ Innovations introduced in academics during last four years include construction of an Animal House, a Medicinal Plant Garden, introduction of a Scientific Waste Management, efforts in monitoring micro-environment, formation of a “School of Environment and Biodiversity Conservation and Awareness”



(SEBCA), introduction of a number Extra-Academic add-on programmes, many of which are interdisciplinary in nature, introduction of compulsory projects on environment etc.

- ❖ Innovations in Teaching Learning evaluation include up gradation to Postgraduate Departments, and implementation of DBT Star college scheme. E-Inventory in Library, OPAC in library, several Wi-Fi access points in networking, introduction of semester system for PG with introduction of CGPA evaluation method, building new E-classrooms.
- ❖ Innovations in Research include Project funding from UGC, DST, DBT etc. Establishing new collaborations home and abroad, seed money for college level research, publication of ISSN coded journals and emphasis on student research and inter language hub.
- ❖ Innovations in Infrastructure Building include new annexe building in Boys Hostel complex, construction of a Girls Hostel , CC TV monitoring, a 20 KV generator, construction of Animal House, plant and animal tissue culture lab and procurement of a number of high end instruments to facilitate interdisciplinary teaching and research.
- ❖ Innovations in Student support and Progression include Digitized searching, lending and borrowing; a number of welfare schemes were already available to the students- Newly Kanyashree scholarship introduced for girl students; quota for Muslim Minorities under OBC category without reducing the number of seats available for the General category students; skill development courses and Entry into services centre for SC/ST/OBC/Minority Students; Peer Meet programmes in college; Support for achieving excellence in sports, Cultural affairs like song drama, publication of magazines etc are indeed some areas to mention.
- ❖ The college building is a Class I heritage structure with pleasantly detectable signature marks of Indo-Islamic Architecture. Our effort, over the years, had been to care and protect this heritage structure.
- ❖ The college identified its Multicultural Milieu and its Student Support System as two of its best practices. The college is an epitome of unity, amity, peace and harmony among the diversity it reflects in caste, creed, religion and vernaculars of its students.
- ❖ The college regularly arranges Hands on Training programmes for students to motivate them for pursuing higher education and research and enable them to

expand their knowledge beyond curricula.

- ❖ Regular interaction of the students with the eminent academicians/scientists enriches them beyond the usual class room teaching.
- ❖ Students, especially from honours stream, are evaluated through class tests arranged by the respective department itself. Slow and fast learners are identified through such tests and slow learners are treated separately through tutorial and remedial classes.
- ❖ Educational tours are regularly arranged by the concerned departments especially by Zoology, Botany, and Microbiology etc.

## SWOC Analysis

### Strength:

- The college blends study of classical languages and social studies with that of the most fundamental and interdisciplinary science subjects in the most efficient manner. It was established in 1926 as an Institution to focus on Islamic studies in Bengal. Very soon the founders could understand the importance of study of Science to facilitate an all round development of the students who were initially exclusively from Muslim community but it did not take long to open the facilities to the children of all caste, creed and religion. Now, it is one of the major colleges in this part of the country fostering equally enviable diversity and growth in both the disciplines.
- The college has been consistently excelling in research. There are at least five (5) departments which have Ph.D. students registered under it. There are two (2) patents to its credit and research funding from UGC, DST, DBT, ICMR, NTRF etc have materialized in last few years. The volume and quality of publications speak for the college to be rated as the best college teaching Science in this region. \*

*\*AC Nielsen–India Today Survey of Educational Institutions of India 2015*

- The college practices the inclusiveness that is fundamental to its vision and mission. Majority of the students belong to Muslim minorities and little less than half of them are women. Many of them come from highly challenged socio-economic background and many are first or second generation learners. This college provides all kinds of academic and extra-academic material support to include them in its growth trajectory. To be trusted as one of the major educational service providers to this large section of the changing society consistently for a very long period of time has been one of our very strong points that we want to uphold in the years to come.
- The college can boast of excellent library and laboratory resources. The DELNET INFLIBNET connected library has more than 90,000 books and subscribes to valuable E-inventories like JSTOR. The students benefit from a dual borrowing – lending system. The laboratories are continuously upgraded and can substantially support research without external support for instruments to a large extent.
- The college was recognized as a Centre with Potential for Excellence (CPE) by the UGC during the XI Plan period. It is one of the very few colleges of the state recognized by the DBT, Government of India for its Star College programme. Recently DBT, Government of India has decided to celebrate 30 years of DBT through yearlong activities and selected our college as one of the 24 Star Colleges of India to conduct student centric

activities (D.O. No. BT/01/DBT/SES dated 15.09.2015). The DST, Government of India, has recognized the college for its FIST assistance programme. The State DST recognized the college for its BOOST programme. All these recognitions are outcome of our endeavours to blend a host of extra-academic programmes that augment the curricula and inculcate among the students a work culture that is reflected in impressive student progression record.

- The college practices a decentralized mode of functioning with clearly identified key areas looked after by nodal persons chosen among the teachers and the staff. This allows grooming of younger faculty members and prepares them to take responsibilities and leadership.
- The college attracts students from all corners of the state and outside it. During the last few years, 250 more seats were added to the existing 350 seats with the new Annexe building erected beside the existing facility. Besides, a 72 seat Girls' Hostel is under construction and will be ready shortly.
- The college has several schemes to support the girl students in particular. There are schemes like 'Kanyashree', launched by the Government of West Bengal, under which any girl student belonging to BPL category is given 'one time assistance of Rs. 25000/-' for pursuing higher studies. Besides, 'scholarships under Minorities Development Finance Board' and under 'Merit cum Means scheme' are available to them. Deserving students are given 'full or half-free ship'.
- The college conducts free certificate course in computer skill development for girl students of different challenged categories including minorities.
- The college has successfully operated two of its coaching centres under the merged scheme, namely, 'NET/ SET Coaching Centre' and 'Entry into Services' Centre.

### **Weakness:**

- The principal weakness is dearth of space. The college is located in the heart of the city and its five acre premises is classified as Class-I heritage property of Kolkata Municipal area. Hence, addition- alterations to the existing structure are out of question. With no second campus earmarked as yet, the college faces difficulty in accommodating all 20 departments and opening newer Post Graduate courses.
- Vacancy position in both faculty and staff categories are a cause of concern. As the appointments are done by the Government of West Bengal and in turn the vacancy in pool affects the requirement needed by the college. Recently, a substantial number of

appointments were made in teaching positions but vacancies in non-teaching positions are still alarming.

- There is no separate space for UG Arts departments and they have to operate from the Staff Room. This prevents the desired level of interaction to take place between the students and the teachers.
- The loss of Classes for University Examinations is a real cause of worry. The University allocates seats for various Undergraduate Examinations during the months of April to August each year. This pressure many a times forces us to suspend classes to accommodate examinees.
- The College has to depend on the Government for development grant as student fees are compulsorily deposited to the exchequer. The delays in allotment of funds sometimes affect the day to day functioning of the college.
- As the admission process is exclusive of other colleges, there is always a possibility of a candidate seeking transfer to another college and to technological or medical education courses after counselling. This apparently impacts negatively the number of actually admitted students taking classes.
- Separate computer laboratories in all science departments have not yet materialized either.
- The college can be made completely Wi-Fi compliant instead of partial compliance that has been achieved.
- Student facilities like canteen, common room, Gymnasium etc remain to be upgraded to the desired level due to lack of space.

### **Opportunities:**

- ⇒ The college proved its worth in more than several meaningful ways to deserve a second campus for itself. A second campus will be a potential educational hub for this college as newer Post graduate courses can be opened and extra-academic add-on courses can be added.
- ⇒ The College offers six languages comprising of Bengali, English, Sanskrit, Urdu, Persian and Arabic. With so much diversity to nurture, the college can form an inter-disciplinary School of Languages for taking up valued projects in oriental studies.
- ⇒ Number of Major Research Projects can be increased substantially. Departments of Economics, Chemistry, Physics, Microbiology and Zoology are recognized as Ph.D. degree pursuing centres and therefore can seek the opportunity of upgrading their Research facilities by proposing for more projects. Likewise, Major Research Projects

can be proposed by a number of other faculty members who have shown continuity in research and have excellent publication records to back them up.

- ⇒ The Staff quarters can be renovated and refurbished in a scientific manner so that the amenities can be modernized and space problem can be addressed to some extent.
- ⇒ Setting up of a Health Centre to cater the need of the students in Hostels and people in the locality was experimentally successful for our CPE years. This facility can be reintroduced if the funds are made available.
- ⇒ Separate computer laboratories for social science departments can be set up.
- ⇒ The Library should be able to upgrade to completely Open Access System of operation.
- ⇒ To be meaningfully functional, the college can be made completely Wi-Fi compliant instead of partial compliance that has been achieved.
- ⇒ Facilities like Career Counselling cell, Women's Studies etc can be allowed in exclusive functional space instead of shared space according to the prevailing practice.

### Challenges:

- ✓ Many students come from much challenged socio-economic background. Despite being extended a variety of support schemes, they, particularly the girls feel peer pressure, pressure from the communities preventing them to take it in their strides till the end. A remarkable improvement is required and one tends to believe that increasing GER is not only about giving opportunities, it is still about a paradigm shift in the mind-set of a large section of people.
- ✓ The college had a playground at 33, Gorachand Road, Kolkata-14 which in course of time had been transferred from Education Department to Minority Affairs Department. Now we have a large tract of land, a clubhouse and a few staff quarters adjacent to this property. Wrestling this property by outsider is a challenge that the college is facing at this moment.
- ✓ With common share of space for examination and classes, the students and teachers face constraint in completing the syllabus. The situation can be well improved if only the University allot lesser number of students to this college than they usually do. The college has taken up the matter with the University and hopefully the issue will be resolved at least to some extent in coming days.
- ✓ Recruitment in Industries has considerably dwindled in this region. The industries are more interested in recruiting from technological sector rather than from the core sciences. To face this challenge we have approached third parties to facilitate campus recruitment and results are encouraging.

- ✓ The college has an enviable collection of Urdu, Arabic and Persian scripts and manuscripts. Unless Librarians with knowledge in these languages are recruited, the college would have to depend on library assistants for deciphering them.
- ✓ Post Graduate Departments have far lesser number of posts than what is desired. Sanctioning new posts for these and potentially upgradable departments is a challenge the college is facing. Likewise, sanctioning new posts for office and departments is one task which has been prioritized by the college.





## **SECTION C: Profile of the College**



## PROFILE OF THE COLLEGE

### 1. Name and Address of the College:

Name : **Maulana Azad College**  
 Address : **8 Rafi Ahmed Kidwai Road**  
**Kolkata 700013**  
**West Bengal, India**  
 Website : **www.maulanaazadcollege.in**

### 2. For Communication:

<i>Designation</i>	<i>Name</i>	<i>Telephone with STD code</i>	<i>Mobile</i>	<i>Fax</i>	<i>E-mail</i>
Principal	<b>Dr. Bijoy Krishna Roy</b>	<b>033 22493737/ 22264306</b>	<b>8697470478</b>	<b>+91 033 22264306</b>	<b>bijoykroy859@gmail.com</b>
Vice Principal	-	-	-	-	-
Steering Committee Coordinator	<b>Dr. Dipak Kumar Som</b>	<b>033 22493737/ 22264306</b>	<b>9674914308</b>	<b>+91 033 22264306</b>	<b>dipaksom@gmail.com</b>

### 3. Status of the Institution :

Affiliated College

Constituent College

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

**6. Source of Funding:**

Government	<input checked="" type="checkbox"/>
Grant-in-aid	<input type="checkbox"/>
Self-financing Any other	<input type="checkbox"/>

**7.**

- a. Date of establishment of the college: **09/12/1926**  
(dd/mm/yyyy)
- b. University to which the college is affiliated /or which governs the college (If it is a constituent college): **University of Calcutta**
- c. Details of UGC recognition

Under Section	Date, Month & Year (dd-mm-yyyy)	Remarks
<b>i. 2(f)</b>	<b>03/03/1956</b>	<b>Since inception</b>
<b>ii. 12 (B)</b>	<b>03/03/1956</b>	

(Enclose the Certificate of recognition u/s 2 (f) and 12 (B) of the UGC Act):

**Please see Annexure: I**

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

Under Section/Clause	Recognition/Approval details Institution/ Department/Programme	Day, Month and Year (dd-mm-yyyy)	Validity	Remarks

(Enclosed the recognition/approval letter)

**8. Does the affiliating University Act provide for conferment of Autonomy (as recognized by the UGC), on its affiliated Colleges?**

Yes  No

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

Yes  No

**9. Is the College recognized:**

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

Yes  No

If yes, date of recognition: **18/03/2010**

- b. For its performance by any other governmental agency?

Yes  No

If yes, Name of the agency **DST (FIST programme), DBT (Star College Scheme)**

Dates of recognition: **2010, 2011**

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

<i>Location</i>	<i>Urban</i>
<b>Campus area in sq. Mts.</b>	<b>5, 143.62 square meters</b>
<b>Built up area in sq. Mts.</b>	<b>2,449 square meters</b>

**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 : **01**
- Sports facilities
  - \* ✓ Play ground **01**
  - \* Swimming pool
  - \* ✓ Gymnasium **02**
- Hostel
  - \* ✓ Boys' hostel
    - Number of hostels **01**
    - Number of inmates **600**
    - Facilities (mention available facilities) **Gymnasium, Common Room, Library, Computer, TV, prayer room**
  - \* ✓ Girls' hostel
    - Number of hostels **01** (under construction)
    - Number of inmates **80** (proposed)
    - Facilities (mention available facilities)
  - \* Working women's hostel
    - Number of hostels
    - Number of inmates
    - Facilities (mention available facilities)
- ✓ Residential facilities for teaching and non-teaching staff (give numbers available – cadre wise): **10 non-teaching staff quarters**
- ✓ Cafeteria **02**
- ✓ Health centre **Students' Health Home** (near to College)
  - First aid, Inpatient, Outpatient, Emergency care facility, Ambulance.....
  - Health centre staff –
    - Qualified doctor Full time  Part time
    - Qualified Nurse Full time  Part time
- Facilities like banking, post office, book shops
- Transport facilities to cater to the needs of students and staff
- ✓ Animal house **01**
- ✓ Biological waste disposal
- ✓ Generator or other facility for management/regulation of electricity and voltage.
- ✓ Solid waste management facility **Maintained by KMC**
- Waste water management
- Water harvesting

## 12. Details of Programmes offered by the College (Give data for current academic year)

Sl. No.	Programme Level	Name of the Programme/ Course	Duration	Entry Qualification	Medium of Instruction	Sanctioned / approved Student strength	No of student admitted
1.	Under Graduate	<b>Honours Courses:</b> English, Bengali, Urdu, Persian, Arabic, Sanskrit, Sociology, Pol. Sc., History, Islamic History & Culture, Philosophy, Economics, Statistics, Physics, Chemistry, Mathematics, Botany, Microbiology, Zoology, Accounting & Finance	3 years	W.B.H.S./ ISC/CBSE (+2) or equivalent	English	41+35+76 + 46+46+24 + 35+46+35 + 41+35+46 + 21+35+35 + 35+19+ 19+30+58	758
		<b>General Courses:</b> Arabic, Persian	3 years	W.B.H.S./ ISC/CBSE (+2) or equivalent	English	42+41	83
2.	Post Graduate	English, Urdu, Zoology	2 years	B.A./ B. Sc.	English	24+37+28	89
3.	Integrated Programme: PG	-	-	-	-	-	-
4.	Ph.D.	Zoology Chemistry Urdu	-	Post Graduate	-	4+3+8	15
5.	M.Phil.	-	-	-	-	-	-
6.	Certificate Courses	-	-	-	-	-	-
7.	UG Diploma	-	-	-	-	-	-
8.	PG Diploma	-	-	-	-	-	-

## 13. Does the College offer Self-Financed Programmes?

Yes  No   
 If yes, how many?

## 14. New Programmes introduced in the College during the last five years if any:

Yes  No  Number   
 (Botany Hons, English M.A., Urdu M.A.)

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

Particulars	UG	PG	Research
Science	Physics, Chemistry, Mathematics, Botany, Microbiology, Zoology, Economics, Statistics	Zoology	Zoology Chemistry Microbiology Physics Botany
Arts	English, Bengali, Urdu, Persian, Arabic, Sanskrit, Sociology, Pol. Sc., History, Islamic History & Culture, Philosophy	English, Urdu	Urdu
Commerce	Accounting & Finance	-	-
Any Other not covered above Certificate UG & PG Diploma	-	-	-

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

- a. Annual System
- b. Semester System
- c. Trimester System

17. Number of Programmes with:

- a. Choice Based Credit System
- b. Inter/Multidisciplinary Approach
- c. Any other ( specify and provide details)

18. Does the College offer UG and/or PG programmes in teacher education?

Yes  No

If yes,

- a. Year of Introduction of the programme(s)..... (dd/mm/yyyy)  
and number of batches that completed the programme
- b. NCTE recognition details (if applicable)  
Notification No.: .....  
Date: ..... (dd/mm/yyyy)  
Validity:.....
- c. Is the institution opting for assessment and accreditation of Teacher Education Programme separately?  
Yes No

**19. Does the College offer UG or PG programme in physical education?**

Yes  No

If yes,

- Year of Introduction of the programme(s)..... (dd/mm/yyyy)  
and number of batches that completed the programme
- NCTE recognition details (if applicable)  
Notification No.: .....  
Date: ..... (dd/mm/yyyy)  
Validity:.....
- Is the institution opting for assessment and accreditation of Physical Education Programme separately?  
Yes No

**20. Number of Teaching and Non-Teaching positions in the Institution:**

Positions	Teaching faculty								Non-teaching staff		Technical staff	
	Professor		Associate Professor		Assistant Professor		Part time teacher		*M	*F	*M	*F
	*M	*F	*M	*F	*M	*F	*M	*F	*M	*F	*M	*F
Sanctioned by the UGC/ University/ State Government	7		103				22		64		02	
<i>Recruited</i>	2	0	27	4	45	14	11	11	39	5	2	0
<i>Yet to recruit</i>	5		13						20		0	
Sanctioned by the Management/ society or other authorized bodies	-	-	-	-	-	-	-	-	-	-	-	-
<i>Recruited</i>												
<i>Yet to recruit</i>	-	-	-	-	-	-	-	-	-	-	-	-

\*M-Male \*F-Female

**21. Qualifications of the Teaching Staff:**

Highest Qualification	Professor		Associate Professor	Assistant Professor			Total
	Male	Female	Male	Female	Male	Female	
<b>Permanent teachers</b>							<b>92</b>
D.Sc./D.Litt.	-	-	-	-	-	-	-
Ph.D.	2	-	17	1	26	8	54
M. Phil	-	-	3	1	5	3	12
PG	-	-	7	2	14	3	26
<b>Temporary teachers (Guest faculty)</b>							<b>23</b>
	Male			Female			
Ph.D.	14			3			17
M. Phil	-			-			-
PG	2			4			6
<b>Part-time teachers</b>							<b>22</b>
Ph.D.	9			5			14
M. Phil	-			1			1
PG	2			5			7



**22. Number of visiting faculty /guest faculty engaged with the College:**

23

**23. Furnish the number of the students admitted to the College during the last four academic years:**

Categories	Year 2011		Year 2012		Year 2013		Year 2014	
	Male	Female	Male	Female	Male	Female	Male	Female
SC	25	16	55	28	63	26	34	21
ST	04	Nil	13	02	09	02	09	02
OBC	-	-	58	21	102	40	96	24
General	213	220	393	394	407	407	364	309

**24. Details on students sent in the College during the current academic year:**

Type of students	UG	PG	M. Phil.	Ph. D.	Total
Students from the same state where the college is located	644	72	-	08	724
Students from other states of India	28	01	-	-	29
NRI students	00	00	-	-	00
Foreign students	01	00	-	-	01
<b>Total</b>	<b>673</b>	<b>73</b>	<b>-</b>	<b>08</b>	<b>754</b>

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

UG

11%

PG

01 %

**26. Unit cost of education:**

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

a) Including the salary component\*

Rs. 43,721/-

b) Excluding the salary component\*\*

Rs. 8,424/-

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

Yes

No

If yes,

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

Yes

No

b) Name of the University which has granted such registration

c) Number of programmes offered

d) Programmes carry the recognition of the Distance Education Council

Yes

No

**28. Provide Student-Teacher ratio for each of the programme course offered:**

Sl. No.	Courses	Student-Teacher Ratio
1	B.A. Arabic (H)	35 : 1
2	B.A. Bengali (H)	28 : 1
3	B.A. English (H)	23: 1
4	B.A. Persian (H)	24 : 1
5	B.A. Sanskrit (H)	6: 1
6	B.A. Urdu (H)	42 : 1
7	B.A. Islamic History& Culture (H)	36 : 1
8	B.A. History (H)	17 : 1
9	B.A. Philosophy (H)	8 : 1
10	B.A. Political Science (H)	22: 1
11	B.A. Sociology (H)	27 : 1
12	B.Sc Botany (H)	9 : 1
13	B.Sc Chemistry (H).	6 : 1
14	B.Sc. Economics (H)	24 : 1
15	B.Sc. Microbiology (H)	6 : 1
16	B.Sc Mathematics (H)	21 : 1
17	B.Sc. Physics (H)	12 : 1
18	B.Sc Statistics(H)	21 : 1
18	B.Sc Zoology (H)	7: 1
19	B.Com Accounting and Finance (H)	47: 1
20	B.A. ( Arabic Gen)	25 : 1
21	B.A. ( Persian Gen)	79: 1
23.	M.A Urdu	10 : 1
24	M.A English	10 : 1
25	M.Sc. in Zoology	5 : 1

**29. Is the College applying for:**

Accreditation: Cycle 1  **Cycle 2**  Cycle 3  Cycle 4

Re-Assessment:

**30. Date of Accreditation\* (Applicable for Cycle 2, Cycle 3, Cycle 4 and Re-Assessment only):**

<b>Cycle 1:</b>	<b>31/03/2007</b> (dd/mm/yyyy)	<b>Accreditation Outcome/Result: Grade B<sup>++</sup></b>
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.: <b>Please see Annexure II for the copy of accreditation certificate 2007</b>		

**31. Number of Working Days during the Last Academic Year:**

**198**

**32. Number of Teaching Days during the Last Academic Year:**

**168**

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

**IQAC** **09/10/2008** (dd/mm/yyyy)

**34. Details Regarding Submission of Annual Quality Assurance Reports (AQAR) to NAAC:**

<b>AQAR</b>	<b>(i)</b>	<b>2011-12</b>	<b>(29/07/2013)</b>
<b>AQAR</b>	<b>(ii)</b>	<b>2012-13</b>	<b>(29/07/2013)</b>
<b>AQAR</b>	<b>(iii)</b>	<b>2013-14</b>	<b>(30/04/2015)</b>
<b>AQAR</b>	<b>(iv)</b>	<b>2014-15</b>	<b>(07/10/2015)</b>

**35. Any Other Relevant Data (Not Covered Above) The College Would Like To Include. (Do Not Include Explanatory Descriptive Information): – NONE**



## **SECTION D: Criterion-Wise Inputs**



## 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 stake holders.

The institution is committed to provide quality and affordable higher education for all, including the underprivileged sections of the society.

- ❖ With its modest beginning as Islamia College during the British period, and being an exclusively men's college till more than two decades ago, the institution now –
  - a) Serves both men and women, many of them first generation degree-seekers from minority communities, and economically weakest sections of the society.
  - b) Offers 20 Honours degree courses in language group (six languages), humanities, science and commerce and three PG courses (English, Urdu and Zoology). Also offers General degree course in Persian and Arabic.

This growth trajectory itself speaks about the efforts to translate the vision into mission, and to remain oriented to the needs of the changing times. The endeavour to integrate the curriculum with the objectives of the institution is a continuous process, and the introduction of one UG (Botany) and two PG courses (English and Urdu), and a host of enrichment programmes during the last few years bear testimony to this.

- ❖ The mission, vision and objectives of the institution are communicated to the various stakeholders through:
  - a) Information dissemination; i.e., prospectus, website, academic calendar, college magazines, departmental journals etc.
  - b) Human interaction; i.e., meetings, workshops, orientation programmes etc.

#### 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 implements the curricula set by its affiliating university in all its UG Courses. In the PG courses, however, the curricula are framed by the Board of Studies that includes all the teachers of the respective departments and some other eminent educationist of other renowned institutions.
- ❖ In order to effectively implement the curriculum, the institution has developed a two-fold action plan of support and assessment.

- ❖ Support includes, apart from classroom teaching and tutorials, a dual library borrowing system where the students can access books both from the central and departmental seminar libraries.
- ❖ Our college subscribes to INFLIBNET. All the students are entitled, and encouraged, to access the free e-resources to supplement the regular sources of knowledge.
- ❖ While remedial classes are arranged in many departments to give extra support to academically weaker students, seminar presentations by students are encouraged to broaden their knowledge base. This two-fold approach attempts to strike a balance between social inclusiveness and academic standards. The contribution of PG students in the peer-reviewed academic journal of the English department is a case in point.
- ❖ The laboratories, financially supported by the State Government, DBT and DST-FIST, regularly upgrade their stock of equipment to integrate the students with the ever-widening practical aspects of the curriculum and to encourage them towards a hands-on approach to studies.
- ❖ Study tours, field trips etc., an integral part of the college's academic programme, are designed in such a way so as to implement as well as supplement curricular goals. For example, the project work of the students of the Economics and Sociology department are often based on primary data collected through intensive field study, like the "Street dwellers of Kolkata: A Socio-Economic Analysis" done in 2015 by a third year undergraduate student of Economics.
- ❖ Regarding assessment, regular class tests and assignments, periodic Mid-Term tests and Test Examinations for sending up students for the university examination are part of the academic programme that is in conformity with the requirements of the university.
- ❖ The students are evaluated through an annual evaluation system over three years of their Undergraduate study referred to as 1+1+1 system. The three PG courses – i.e., English, Urdu and Zoology – follow the semester system of evaluation. The Zoology department has recently introduced a Choice Based Credit System.

### **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?**

- ✓ For effective delivery of curriculum and teaching practices, the college works under the broad framework drawn by the University, that include – a) the syllabi b) prescribed



texts and references c) teaching modules d) lists of practical experiments etc. These are available in the University website and printed communiqué.

- ✓ Periodic changes in the syllabi are preceded by interactive workshops conducted by the University. The teachers of the college take part in these exercises.
- ✓ Refresher Courses and Orientation Programmes, conducted by the Academic Staff College under the aegis of the University, also help the teachers improve teaching practices, and to remain conversant with the emerging trends in curriculum development.

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

- The teachers of the college prefer inputs at workshops conducted by the University, where they deliberate on modes of curriculum delivery and transaction based on their experiences of classroom teaching and tutorials.
- Similar opportunities are put to good use at examiners'/moderators' meetings conducted by the University, where there is a scope to discuss and offer feedbacks on curricular aspects.
- The teachers who are members of different Boards of Studies utilize the scope for more direct contribution in this regard, and have a broader role to play in curriculum design.
- Student's feedbacks are taken by the teachers at the end of each year or semesters.
- Last, but not the least, are the efforts to complete the syllabus, and to enrich it with tutorials and remedial classes.

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

1. Our college being primarily an undergraduate institution offering courses in Humanities, Sciences and Social Sciences and Commerce, the scope of having industry and/or research bodies as *beneficiaries* is limited. However, the college has been able to develop interactive *partnership* with industry and research institutions and have operated a series of Institution-Industry Interface under the UGC-CPE programme.
2. Interactive sessions with doyens of science and technology from acclaimed institutions such as VECC, Kolkata, Saha Institute of Nuclear Physics, Kolkata, Indian Institute of Chemical Biology, Bose Institute, Calcutta University, S.N. Bose Institute etc. Have been of great help in effective operationalization of the curriculum.

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

- ✓ Eight teachers of the college are members of various UG Board of Studies of the affiliating University and the PG Board of Studies of institutions affiliated to it. Our college being a premier centre of learning of Arabic, Persian and Urdu, the contribution of senior members from these departments in various Boards of Studies is significant. Equally significant are the contribution of teachers of Zoology and Microbiology, both DBT and DST funded departments.
- ✓ As the three PG departments of English, Urdu and Zoology offer autonomous courses, all faculty members, who are part of the Board of Studies, exercise their freedom of curriculum design and implementation. These exercises are subject to the approval of the appropriate University authorities.

**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 and the courses for which the curriculum has been developed.**

Teachers of various departments are engaged in various skill development programmes from time to time to augment the curriculum. For example, in recent years –

- Teachers of the Department of Mathematics have designed and implemented value added extension programme “Mathematical Skill Development for Appearing in Competitive Examinations” under UGC-CPE assistance programme in 2010-11 and 2011-12. Dr. Bidyut Kr. Pal (retired in April 2015) was the nodal person.
- Dr. Debaprasad Chatterjee, Associate Professor, Department of Sociology was instrumental in designing, implementing and assessment of participants in Certificate Course in Computer Skill development in association with West End Institute, Kalyani, WB.
- A Study Centre of IGNOU is housed in the college premises and is very much a part of the institution as they share academic infrastructure and human resources. Teachers of various departments often take active part in designing the courses.

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

- ✓ Through continuous assessments that include Tests, periodic assessments and Internal Class Tests.
- ✓ Through performance of the students in University examinations.
- ✓ Through feedback from students.
- ✓ Through performance of the students in All India level Competitive Examinations.
- ✓ Through feedbacks obtained from teachers in the universities after their progression to Post graduation.

The performance analysis of the students follow a four-cornered structure of In-campus, Off-campus, Evaluative methods and Feedback.

- In-campus – a) attendance b) continuous assessment c) curricular and co-curricular activities
- Off-campus – a) students' performance in progressed campus b) performance in pan India selection tests c) performance in various extension activities.
- Evaluative methods – a) through performance in University examination b) through class tests, term end tests and selection tests
- Feedback – a) from teachers and students b) from peers and interacting institutions c) from parents and guardians

## 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 certificate/diploma/skill development courses and programmes are designed by the departments to equip the students for the dynamic employment market. The Certificate Course in computer skill development for Minority Girl Students, and the Certificate Course in French run by the Post Graduate Department of English, and open to all the students of the college, is examples of this.

**Table 1.1: Efforts in Skill Development**

Course	Conducted by	Remarks
Certificate Course in French	Department of English	Any student/staff can enrol.
Certificate course in Computer skill development	Department of Sociology	Programme to encourage inclusiveness.
Mathematical skill development	Department of Mathematics	For the students who need to develop math skill for appearing in competitive exams.

Course	Conducted by	Remarks
NET/SET Coaching Centre	Zoology, English and Urdu Department	Enables the students for appearing in Life Sciences and these two languages.
Entry into Services Coaching Centre	Islamic History and culture department	For SC/ST/OBC/ Minority students

### 1.2.2 Does the institution offer programmes that facilitate twinning/dual degree? If “yes”, give details.

The norms of the affiliating University do not permit the college to offer a dual degree. But it does facilitate the opportunity of a dual degree through the Study Centre of IGNOU within the college premises, where our students have the freedom to pursue one of the three certificate courses IGNOU offer. The strong enrolment rate of our students at our Study Centre shows that they are making full utilization of the facility.

#### Certificate Programmes offered by IGNOU:

- Certificate in Teaching of Primary School Mathematics (CTPM)
- Certificate Programme in Laboratory Techniques (CPLT)
- Bachelor’s Preparatory Programme (BPP)

### 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.

With six language departments (that include classical languages like Arabic, Persian and Sanskrit) a wide range of social sciences departments and science departments led by the flagship departments of biological sciences, our college is uniquely placed among the institutions in eastern India to offer students an eclectic mix of subjects that range from Islamic History and Culture to Microbiology, Urdu to Sociology. All the 3<sup>rd</sup> year students of the college participate in Environmental Sciences course as per the University of Calcutta curriculum. This also underlines our institution’s goal of a holistic, interdisciplinary educational environment rooted to the past and tuned to the future. However, we have to exercise this flexibility within the limits of the statute of the affiliating University, and generally the students are offered three to five subsidiary subjects (from which they have to opt for two) along with a major subject at the undergraduate level.

**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.**

- ❖ Being a fully government-run institution, our college is not mandated to offer any self-financed programme under the core programmes affiliated to Calcutta University. However, all distance education programmes affiliated to IGNOU are self financed.
- ❖ The Study Centre of IGNOU not only shares space and infrastructure with the college, but many of our teachers are actively engaged in curriculum design and delivery.

**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.**

As ours is basically a degree college that offers courses in core subjects of Sciences, Social Sciences, Commerce, Languages and Humanities, there is not much scope and support infrastructure to provide specific skill oriented programmes. The Study Centre of IGNOU, an integral part of our institution, addresses this aspect. Also, please refer to 1.2.3 above.

**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?**

Yes

- ◆ The students are informed about the IGNOU study centre on their admission to this college.
- ◆ The Study Centre is housed in the same premises. Large number of faculty acts as counsellors and offers their first hand knowledge on benefits of these courses.
- ◆ A large number of students in their final years or immediately after completion of their regular course 47nrol for distance learning courses in IGNOU. This effectively minimizes the drop-out rate among the students.

### **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?**

- Seminars, workshops and interactive sessions with luminaries from different fields are organized by various departments to give the students exposure to the evolving trends in

different subjects. These are supplemented by field trips, study tours etc. (See also 1.1.2 & 1.1.5)

- The college authority, sometimes with active involvement of the Students' Union, organizes programmes to commemorate special occasions like Milad Un-Nabi, the birth of Prophet Mohammed, International Mother Tongue Day etc. The 150<sup>th</sup> Birth Anniversary of Swami Vivekananda was celebrated with a seminar and a film show. Seminars and invited lectures were arranged to commemorate 125<sup>th</sup> Birth Anniversary of Maulana Abul Kalam Azad, 150<sup>th</sup> Birth anniversary of Sir Asutosh Mukherjee, Sir Jagadish Chandra Bose and Acharya Prafulla Chandra Roy. The passing away of legendary historian Prof. Tapan Ray Chaudhuri was commemorated where eminent literary critic Prof. Chinmoy Guha and historian Prof. Chittaranjan Panda, ex-curator of Victoria Memorial, were guest speakers. The college organizes a vibrant Mushaira annually where poets from all corners of the country participate. Such programmes exemplify the efforts to take the students beyond the narrow grid of University curriculum to a broad secular environment and to keep them abreast of the larger academic world.

### **1.3.2 What are the efforts made by the institution to modify, enrich and organize the curriculum to explicitly reflect the experiences of the students and cater to needs of the dynamic employment market?**

- The college teachers give their inputs at the workshops conducted by the University, where they deliberate on modes of curriculum delivery and transaction based on their experiences of classroom teaching and tutorials.
- Similar opportunities are put to good use at examiners'/moderators' meetings conducted by the University, where there is a scope to discuss and offer feedbacks on curricular aspects.
- The teachers who are members of different UG Boards of Studies utilize the scope for more direct contribution in this regard, and have a broader role to play in curriculum design, enrichment and organisation.
- Student's feedbacks are taken by the teachers at the end of each year or semesters.
- Last, but not the least, are the efforts to complete the syllabus, and to enrich it with tutorials and remedial classes.
- The college undertakes regular inter-departmental workshops and Hands-On-Training programmes as enrichment initiatives.

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

In recent years, the college has taken some specific steps to address and integrate cross-cutting issues. They are:

**Women Study Centre:** The College opened its door for women only two decades ago. Within this short period of time, however, the girl students are almost outnumbering the boys. Many of them are from minority communities and first generation learners. The women faculty strength is also very impressive. These facts have prompted us to open a Women's Study Centre in the college. Various awareness and empowerment programmes are organized, sometimes with support from NGOs working in this field. Several short term projects on gender issues were carried out with the help of seed money offered by the college:

**Table1.2: Short term projects to address gender-issues**

Titles of the Projects	Investigators
i) Exploring Social-Ethical Context of Indian Medical Science	Prof. Arpita Sengupta, Associate Professor, Dept. of Philosophy (Transferred) Prof. Ananya Roy Choudhury, Asst. Prof.; Dept. of History (Transferred)
ii) Stress Management among Professional couples	Prof. Aditi Basu, Asst. Prof.; Dept. of Sociology
iii) Employment Prospect and Economic Status of Women Workers in Unorganized Sector	Prof. Nandita Basak, Associate Prof. of Economics (superannuated) Prof. Barnana Guha Thakurta, Asst. Prof of Political Science
iv) Concept of war and its Socio-Economic Political Impaction Political Philosophy	Prof. Sanghamitra Dasgupta, Asst. Prof. of Philosophy
v) An analytical survey of Female workers in Shopping Malls of Kolkata	Prof. Sampa Dutta Gupta, Associate Prof. of Sociology (Transferred)
vi) An Analytical Survey of Management Values in W.B: Ethical and Non-Ethical Issues	Prof. Nandita Bagchi, Associate Prof. of Philosophy (Transferred)
vii) Group Theatre and Women	Prof. Nandini Saila Dasgupta, Asst. Prof. of History (Transferred)
viii) 'Daughters' Who overstepped the Threshold: Women in the Terrorist Movement of Bengal (1907-1932)	Prof. Sucharita Ghosh Sengupta, Asst. Prof. of History

**IT Training Programme for Minority Girls Students:** As a step towards empowerment of students from underprivileged sections of the society, the college has conducted training programme in computer skill development under the UGC CPE Scheme for the Minority Girls Students. The programme, known as ITTPMGS, trained 70 girl students in the year 2013, and 73 in the year 2014. The programme was followed by extensive feedback from the beneficiaries. This helped us to modify and fine-tune it.

**Water Testing Analysis Centre:** This is part of an outreach programme of the institution, mandated to periodically check the drinking water supply of the college, the hostel and the locality. For example, a high coli form level in the drinking water facility in the Boys' hostel was brought to the notice of the Kolkata Municipal Corporation and action taken immediately. Water Quality Analysis is also carried out with any water sample brought to the centre. The Centre had carried out an extensive survey in four major city hospitals of Kolkata. The findings were presented at a national seminar at Dum Dum Motijheel College, Kolkata in collaboration with Bose Institute, Kolkata and Botanical Survey of India in February 4-6, 2012.

**Programme for Entrepreneurship for SC, ST and Minority Girls Students** and a **Cell for the Prevention of Sexual Harassment on the Campus** are two other steps taken by the college towards gender equity and human rights.

**Anti-Ragging Cell in Hostel** and a **Health Check up Unit** are there in the college to address issues related to human rights and health. A 24X 7 CCTV facility is now available in one of the hostels. There is also a Health Check up Unit is equipped with Primary Patient Observation System.

**School of Environment and Biodiversity Awareness Programme** –Established by the Department of Zoology as part of a CPE programme to create environmental awareness among youngsters. This is part of an outreach activity and was carried out in eight schools spread over urban and rural areas. Biodiversity training programs included – Pugmark analysis for Tiger census, Use of Camera Trap in wild life biology, Use of GPS and Laser Range finder in wild life biology.

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

From a workshop on “How to Raise Self-esteem” to one on Laboratory Techniques, from Computer Skills to the Teaching of Primary School Mathematics, a range of value added courses and enrichment programmes are offered by the college so as to equip our students to survive and contribute to a knowledge-driven society (*Table 1.4 for details*).

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

◆ The students comprise the core body with a direct stake at the curriculum, and their feedbacks are central to enriching it. The college has a system in place where feedback



from all UG and PG students are given due consideration. Recently, UG Board of Studies of the University was prevailed upon to modify a part of the Sociology syllabus based on students' feedback.

◆ At the post-graduate level, feedback from students and teachers are extensively used to enrich the curriculum. For example, an optional semester paper in Phonetics and Linguistics has been introduced in the English Department this year.

◆ Feedback collected from all participants of Remedial Coaching Programmes and Hands-on Training Programmes have helped modify the contents from design to delivery level.

◆ Feedback from other Peer bodies, like the UGC-CPE, DBT and DST-FIST has given us direction from time to time. For example, feedback obtained from the Observer Sri Sanjeev Srivastava and Dr. Garima Gupta from DBT, the external experts Dr. T.B. Jha, professor of Botany, WBSES and Prof. Subhash Chandra Bhattacharyya, Department of Chemistry, JU, after their meetings with students of all science departments in the college, have been of great value.

◆ Feedback from eminent academics in editorial board of the peer reviewed journals published by the college, from external experts involved in the design of enrichment programmes, from Higher Education Department, Government of West Bengal, and last, but not the least, the guardians of students, helps us enrich the curriculum at different stages between design and delivery.

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

The quality of the enrichment programmes is regularly evaluated by the Internal Quality Assurance Cell and concerned sub-committees are entrusted with the responsibility of organizing and running the programmes. Feedback from students and particularly the alumni also helps us modify and monitor the quality of the 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?**

**At the UG level:** Inputs of the members of the Board of Studies, and other teachers who participate in curriculum related workshops conducted by the University at the UG level.

**At the PG level:** The members of the Board of Studies (internal and external) take active role in designing and developing the curriculum of the autonomous courses.

**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?**

- ❖ The college has a system of obtaining regular feedback from students and other stakeholders. Being an affiliated college under the University, our feedback system focus more on curriculum delivery rather than on design and development. There is a system in place to communicate this to the University, and the teachers utilize these opportunities. The system is detailed in 1.4.1 above. In this way, for example, the introduction of Tissue culture in Botany, bacterial growth curve in Microbiology, Computer applications in Commerce, were initiated at the UG level in recent years.
- ❖ The feedback system helped us initiate new programmes (please see 1.3.4).

**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?**

**Table1.2: Programmes introduced in last four years.**

Course	Conducted by	Introduced in	Remarks
Certificate Course in French	Department of English	2010-11	Any student/staff can 52nrol for skill development in an European language
Certificate course in Computer skill	Department of Sociology	2011- 12	Programme to encourage inclusiveness of SC/ST/OBC/Minority Girl Students
Mathematical skill development	Department of Mathematics	2010-11	For the students who need to develop math skill for appearing in competitive exams.

**Table 1.3: Curriculum Enrichment initiatives**

Curriculum	Enrichment initiatives	Year of Introduction	Reason
PG Urdu	Introduction of Seminar	2008-09	Curriculum augmentation
PG English	Seminar Presentation	2009-10	Curriculum augmentation
PG in Zoology	Introduction GPS application in Ecology	2009-10	Enrichment initiative
UG degree in Accounting	Computer applications	2009 -10	Curriculum augmentation
UG degree in Sociology	Project Based Practicals	2009 -10	Curriculum augmentation
Microbiology	Isolation and purification of important extracellular enzymes.	2010-11	Enrichment initiative
Botany	Tissue Culture	2010-11	Enrichment initiative
Zoology	Animal House and animal tissue culture	2010-11	Enrichment initiative
Chemistry	Introduction of FTIR based	2012-13	Enrichment initiative

Curriculum	Enrichment initiatives	Year of Introduction	Reason
	hands-on training		
Physics	DBT Workshop on Experimental and Theoretical Physics	2012-13	Enrichment initiative
Zoology	Hands on training of fruit fly <i>Drosophila</i> culture, identification of sex comb and <i>Drosophila</i> food preparation	2013-14	Enrichment initiative
Zoology	Preparation of polytene chromosome from salivary gland and Malpighian tubules	2013-14	Enrichment initiative
Chemistry	Bio-applicability In Chemistry	2013-14	Enrichment initiative
Physics	DBT Workshop on Experimental and Theoretical Physics	2013-14	Enrichment initiative

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

- In compliance with the recommendations of the last NAAC assessment team, the college has started the UG course in Botany and PG courses in English and Urdu, apart from a number of certificate courses and enrichment programmes.
- Ph.D. programmes are run in the departments of Zoology, Chemistry, Economics and Microbiology.
- In recent years, different departments of the college have come together to initiate multi-disciplinary projects and programmes with a view to implement the institution's vision of holistic education. For example –
  1. Six language departments of the college came together to complete one project on translation of selected works of Jnanpeth Awardee poet Bishnu De.
  2. The departments of Economics, Political Science, History, Philosophy and Sociology have jointly completed seven short term projects and the observations have been published in a volume titled “Wanderings on Women, Work, Well Being and War”: Ed. Prof. Shantanu Ghosh, Department of Economics, ISBN 978-81-928246-0-4 ;September 2013
- A proposal for the introduction of a PG course in Microbiology has been placed and is awaiting the approval of the concerned authorities.



## Criterion II: Teaching – Learning and Evaluation

### 2.1 STUDENT ENROLMENT AND PROFILE

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

The earnest endeavour of the college is to ensure admittance to all deserving and meritorious students and to ensure this the college takes the following steps:

- Publicize college admission process in the leading newspapers and television channels.
- Announcement of its admission process through the college website [www.maulanaazadcollege.in](http://www.maulanaazadcollege.in).
- To ensure transparency in the admission process the college has made it mandatory for applications: to be filed and submitted online and all financial transactions to be done through a selected nationalized bank.
- Publishing college Prospectus mentioning details regarding admission procedure, number of seats available per subject and reservations, cut off marks per subject, combination of general subjects, fees structures, faculty details etc.
- Admission tests are conducted to test the aptitude of students opting for Post-Graduate studies.
- Counselling is done according to Provisional merit list.
- The college is under contract with organisation, offering solutions for handling the logistics of the admission process. However, the office has been equipped to handle the admission process online with physical back up rendered for all cases of admission
- Admission data is managed in Visual Basic and a unique Student ID Card is given to every student.
- Merit lists are open to all and can be approached by clicking 'click to view' hyperlinks.
- Physical examination of all credentials, documents in favour of caste, financial status of the family, eligibility for reservation are undertaken to leave little room for error. There had not been any RTI enquiry on admission in the past years.
- Admission is strictly based on merit only.
- The entire process of admission is conducted by an Admission committee nominated by the Teachers' Council, the members of which work in tandem with the Students' section of the college under the leadership of the Principal. This committee is formed a

new every year and by rotation allowing a majority of teachers to gain experience in handling the process.

The following table presents an overview of the intake capacity of the Honours subjects (2015-16) together with the combination of the general subjects:

**Table 2.1: Courses of Study, Flexibility and Intake Capacity:**

Subjects	Intake Capacity	Subject Combinations
HONOURS		
<b>Arabic</b>	<b>46</b>	<b>Any Two of (i), (ii), (iii)</b> (i) Bengali / Urdu (ii) English / Philosophy* / Economics* (iii) History* / Islamic History & Culture*
<b>Bengali</b>	<b>35</b>	<b>Any Two of (i), (ii), (iii)</b> (i) English / Philosophy*/Economics* (ii) History* / Islamic History & Culture* (iii) Arabic / Persian / Sanskrit / Sociology* / Political Science*
<b>English</b>	<b>41</b>	<b>Any Two of (i), (ii), (iii)</b> (i) Bengali / Urdu (ii) History* / Islamic History & Culture* (iii) Arabic / Persian / Sanskrit / Sociology* / Political Science*
<b>Persian</b>	<b>46</b>	<b>Any Two of (i), (ii), (iii)</b> (i) Bengali / Urdu (ii) English / Philosophy* / Economics* (iii) History* / Islamic History & Culture*
<b>Sanskrit</b>	<b>24</b>	<b>Any Two of (i), (ii), (iii)</b> (i) Bengali / Urdu (ii) English / Philosophy* / Economics* (iii) History* / Islamic History & Culture*
<b>Urdu</b>	<b>76</b>	<b>Any Two of (i), (ii), (iii)</b> (i) English / Philosophy* / Economics* (ii) History* / Islamic History & Culture* (iii) Arabic / Persian / Sanskrit / Sociology* / Political Science*
<b>Islamic History &amp; Culture</b>	<b>41</b>	<b>Any Two of (i), (ii), (iii)</b> (i) Bengali / Urdu (ii) English / Philosophy* / Economics* (iii) Arabic / Persian / Sanskrit / Sociology* / Political Science*
<b>History</b>	<b>35</b>	<b>Any Two of (i), (ii), (iii)</b> (i) Bengali / Urdu (ii) English / Philosophy* / Economics* (iii) Arabic / Persian / Sanskrit / Sociology* / Political Science*
<b>Philosophy</b>	<b>35</b>	<b>Any Two of (i), (ii), (iii)</b> (i) Bengali / Urdu (ii) History* / Islamic History & Culture* (iii) Arabic / Persian / Sanskrit / Sociology* / Political Science*
<b>Political Science</b>	<b>46</b>	<b>Any Two of (i), (ii), (iii)</b> (i) Bengali / Urdu (ii) English / Philosophy* / Economics* (iii) History* / Islamic History & Culture*
<b>Sociology</b>	<b>35</b>	<b>Any Two of (i), (ii), (iii)</b> (i) Bengali / Urdu (ii) English / Philosophy* / Economics* (iii) History* / Islamic History & Culture*

Subjects	Intake	Subject Combinations
<b>Botany</b>	<b>19</b>	(i) Chemistry (ii) Zoology
<b>Chemistry</b>	<b>35</b>	(i) Mathematics (ii) Physics
<b>Economics</b>	<b>46</b>	(i) Mathematics (ii) Statistics / Political Science
<b>Micro-Biology</b>	<b>19</b>	(i) Chemistry (ii) Botany / Physics
<b>Mathematics</b>	<b>35</b>	(i) Physics (ii) Chemistry / Statistics
<b>Physics</b>	<b>35</b>	(i) Mathematics (ii) Chemistry / Statistics
<b>Statistics</b>	<b>21</b>	(i) Mathematics (ii) Physics / Economics
<b>Zoology</b>	<b>30</b>	(i) Chemistry (ii) Botany
<b>Accounting &amp; Finance</b>	<b>58</b>	Compulsory Elective Subjects <b>Group I &amp; Group II</b>
<b>GENERAL</b>		
<b>Arabic</b>	<b>42</b>	<b>Arabic and any two of the followings</b> (i) Bengali / Urdu (ii) English / Philosophy* / Economics* (iii) History* / Islamic History & Culture*
<b>Persian</b>	<b>41</b>	<b>Persian and any two of the followings</b> (i) Bengali / Urdu (ii) English / Philosophy* / Economics* (iii) History* / Islamic History & Culture*

At least one of the combination subjects should be non-language (marked \*)

**2.1.2 Explain in details 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.**

The admission to UG courses is solely on the basis of merit. Criteria of Admission are as follows:-

- **UG:** For admission to the Under-graduate level the marks obtained in the last examination i.e. Class XII School Leaving Examinations are required. Usually we calculate the marks obtained in the best four subjects along with the marks obtained in the desired Hons. Subject for computing the merit score for the respective Hons. Subject. (Note: University recommended marks for each subject are necessary for applying albeit not sufficient for procuring admission in the respective subject of the college)

The criteria are adopted for admittance to undergraduate courses of 2014-15 session of the college is appended below:

- The candidate must pass Higher Secondary (10 + 2) or its equivalent Examination in the year **2013 & 2014** and he/she should have also passed in **English** in a 100 marks paper.
- Candidates who passed from the West Bengal State Council of Vocational Education & Training are not eligible to apply.

**Table 2.2: Criteria of Admission in Various UG Courses**

Subjects	Requirement of Subjects to be Study in H.S. or its Equivalent Examination	Minimum Marks Obtained in H.S. or its Equivalent Examination		Score to be Calculated for Merit List
		General Caste	SC / ST	
<b>Honours Course</b>				
Arabic	Arabic	50% in aggregate & 50% in Arabic	40% in aggregate OR 40% in Arabic	Aggregate Marks + Marks in Arabic
Bengali	Bengali	50% in aggregate & 50% in Bengali	40% in aggregate OR 40% in Bengali	Aggregate Marks + Marks in Bengali
English	English	60% in aggregate & 60% in English	40% in aggregate OR 40% in English	Aggregate Marks + Marks in English
Persian	Persian OR Urdu	50% in aggregate & 45% in Persian/Urdu OR 55% in Persian/Urdu (Candidate having Persian will be given first preference)	40% in aggregate & 40% in Persian/Urdu OR 45% in Persian/Urdu (Candidate having Persian will be given first preference)	Aggregate Marks + Marks in Persian/Urdu
Sanskrit	Sanskrit	50% in aggregate & 45% in Sanskrit OR 55% in Sanskrit if aggregate is less than 50%	40% in aggregate OR 40% in Sanskrit	Aggregate Marks



Subjects	Requirement of Subjects to be Study in H.S. or its Equivalent Examination	Minimum Marks Obtained in H.S. or its Equivalent Examination		Score to be Calculated for Merit List
		General Caste	SC / ST	
Urdu	Urdu	50% in aggregate & 50% in Urdu	40% in aggregate OR 40% in Urdu	Aggregate Marks + Marks in Urdu
Islamic History & Culture	History / Islamic History	50% in aggregate & 45% in History / Islamic History OR 55% in History / Islamic History	40% in aggregate OR 40% in History / Islamic History	Aggregate Marks + Marks in History / Islamic History
History		50% in aggregate & 50% in History OR 55% in aggregate if History is not studied	40% in aggregate OR 40% in History	Aggregate Marks + Marks in English
Philosophy	Philosophy	50% in aggregate & 45% in Philosophy OR 55% in Philosophy	40% in aggregate OR 40% in Philosophy	Aggregate Marks + Marks in English + Marks in Philosophy
Political Science	Political Science	50% in aggregate & 50% in Political Science	40% in aggregate OR 40% in Political Science	Aggregate Marks + Marks in English + Marks in Political Science
Sociology		50% in aggregate OR 50% in aggregate & 45% in Sociology if Sociology is studied	40% in aggregate if Sociology is not studied OR 40% in Political Science	Aggregate Marks + Marks in English
Botany	Biology / Botany and Chemistry	55% in aggregate & 60% in Biology / Botany	40% in aggregate & 40% in Biology / Botany	Aggregate Marks + Marks in Biology / Botany + Marks in Chemistry

Subjects	Requirement of Subjects to be Study in H.S. or its Equivalent Examination	Minimum Marks Obtained in H.S. or its Equivalent Examination		Score to be Calculated for Merit List
		General Caste	SC / ST	
Chemistry	Chemistry, Physics and Mathematics	60% in aggregate & 60% in Chemistry & 40% in Mathematics	40% in aggregate & 40% in Chemistry	Aggregate Marks + Marks in Chemistry + Marks in Mathematics
Economics	Mathematics (With at least 50% Marks)	50% in aggregate & 50% in Economics OR 55% in aggregate if Economics is not studied	40% in aggregate OR 40% in Economics	Aggregate Marks + Marks in Mathematics + Marks in English
Micro-Biology	Biology & Chemistry and Physics in PCM/B Combination	60% in aggregate & 60% in Biology & 60% in Chemistry	40% in aggregate OR 40% in Biology & 40% in Chemistry	Aggregate Marks + Marks in Chemistry + Marks in Biology
Mathematics	Mathematics, Physics and Chemistry / Statistics	60% in aggregate & 60% in Mathematics	40% in aggregate & 40% in Mathematics	Aggregate Marks + Marks in Mathematics
Physics	Physics, Mathematics and Chemistry	60% in aggregate & 60% in Physics & 60% in Mathematics	40% in aggregate OR 40% in Physics & 40% in Mathematics	Aggregate Marks + Marks in Physics + Marks in Mathematics
Statistics	Mathematics	50% in aggregate & 50% in Mathematics	40% in aggregate & 40% in Mathematics	Aggregate Marks + Marks in Mathematics
Zoology	Biology / Zoology and Chemistry	60% in aggregate & 60% in Biology / Zoology	40% in aggregate OR 40% in Biology / Zoology	Aggregate Marks + Marks in Biology / Zoology + Marks in Chemistry

Subjects	Requirement of Subjects to be Study in H.S. or its Equivalent Examination	Minimum Marks Obtained in H.S. or its Equivalent Examination		Score to be Calculated for Merit List
		General Caste	SC / ST	
Accounting & Finance	Accountancy / Mathematics	60% in aggregate & 60% in Accountancy / Mathematics	40% in aggregate OR 40% in Accountancy / Mathematics	Aggregate Marks + Marks in Accountancy / Mathematics (whichever is higher)
<b>General Course</b>				
Arabic	Arabic	40% in aggregate	40% in aggregate	Aggregate Marks + Marks in Arabic
Persian	Persian / Urdu	40% in aggregate & 30% in Persian/Urdu (Candidate having Persian will be given first preference)	40% in aggregate	Aggregate Marks

\*\* Aggregate = Sum of best four marks (having at least pass mark) excluding compulsory environmental Study / Education.

- **PG:** For admission to the Post-graduate level results of B.A. (Hons) / B. Sc. (Hons) are considered for appearing in the admission test. Thus it is a combination of merit and entrance test that is adopted by all the Post-Graduate departments of this university. 60 % seats are filled from among the students of the same university on the basis of merit and 40% seats are open to home and away universities on the basis of admission test. The criteria for admission for SC, ST, OBC and Differently abled person are as per Govt. of West Bengal norms.

**The criteria for admission to different PG course are as follows:**

**Table 2.3: Criteria of Admission in Various PG Courses**

Subject	No. of seats	Criteria
<b>Zoology</b>	28	The minimum eligibility criterion for application is 55% (CU) and 60% (Non CU) marks in UG. 60% seats are filled up according to marks obtained in entrance examination and 40% according to merit (from C.U. only)
<b>English</b>	24	The minimum eligibility criterion for application is 50% (CU) and 55% (Non CU) marks in UG. 60% seats are filled up according to marks obtained in entrance examination and 40% according to merit (from C.U. only)

<b>Urdu</b>	37	The minimum eligibility criterion for application is 50% (CU) and 55% (Non CU) marks in UG. 60% seats are filled up according to marks obtained in entrance examination and 40% according to merit (from C.U. only)
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**2.1.3 Give the minimum and maximum percentage of marks for admission at entry level for each of the programmes offered by the college and provide a comparison with other colleges of the affiliating university within the city/district.**

- The criteria for admission for SC, ST, OBC and Differently abled persons are as per Govt. of West Bengal norms.

**Table 2.4: Comparative account of Admission criteria with neighbouring Government College in the academic year, 2013-14**

Name of the Programme	Maulana Azad College		Lady Brabourne College	
	Min. %	Max %	Min. %	Max %
B.A in Arabic	58.75	85.25	-	-
B.A in Bengali	54.75	80.25	46.25	93.00
B.A in English	55.75	93.25	47.00	97.50
B.A in History	54.50	89.25	46.25	97.25
B.A in IHC	50.00	85.00	-	-
B.A in Philosophy	50.25	86.75	46.25	92.75
B.A in Persian	41.00	78.75	47.75	69.75
B.A in Pol.Sc.	54.75	83.50	46.25	95.75
B.A in Sanskrit	50.00	80.50	59.75	87.75
B.A. Sociology	54.75	87.25	46.25	97.5
B.Sc in Botany	52.25	86.50	52.75	97
B.Sc in Chemistry	59.00	94.50	60	97.25
B.Sc in Economics	66.25	97.00	62.5	98.25
B.Sc in Microbiology	67.50	95.50	54	97.5
B.Sc in Mathematics	65.75	91.00	62.5	97.75
B.Sc in Physics	63.75	94.75	59.5	96.75
B.Sc in Statistics	67.25	93.50	65.5	97
B.Sc in Zoology	53.25	91.75	-	-
B.com in Accounting & Finance	49.75	91.00	-	-
Arabic General Course	40.75	76.00	-	-
Persian General Course	42.00	68.50	-	-
M.A English	43.00	55.12	44.25	62.5
M.A Urdu	47.62	65.00	-	-
M.Sc. Zoology	56.25	73.75	-	-

**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.

- Our college has an Admission Committee which reviews the admission process annually.
- Also we have a databank, a digitized database for applied and enrolled students through which admission committee can review students’ profile annually.
- Every year before admission, the admission committee conducts several meetings with teachers especially with departmental Heads to ensure the requisite marks, number of seats available for admission in various subjects for that year.

**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**

As stated in our vision statement, this college primarily aims at inclusiveness of the underprivileged, socially challenged section of the society in mainstream system of its education. The college was established in order to bring the pupils of Muslim community at the same level with the rest of the country and in its endeavour the college has earned commendable trust among this section of the society. National commitment to diversity and inclusion is addressed to as applicable to all other institutions of the state.

The following Table depicts admission in reserved categories as well as diversity of students admitted over last four years:

**Table 2.5: Diversity in categories of students admitted reflecting inclusiveness.**

Year	Admitted	Male	Female	Non-Minority General	Minorities General	Others General	SC	ST	OBC	PH
2014-15	856	442	414	304	395	10	41	10	88	8
2013-14	748	421	327	263	335	10	26	10	101	3
2012-13	777	409	368	285	359	9	43	14	60	7
2011-12	710	377	333	264	343	12	39	9	35	8
2010-11	763	414	349	293	389	11	51	9	0	10

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

**Table 2.6: Programmes offered by the institution and detailed data for number of applications received against number of students admitted**

Programme	No. Applied (2010-11)	No. Applied (2011-12)	No. Applied (2012-13)	No. Applied (2013-14)	No. Applied (2014-15)	Admitted (2010-11)	Admitted (2011-12)	Admitted (2012-13)	Admitted (2013-14)	Admitted (2014-15)
BA in Arabic	334	178	217	359	268	50	51	56	58	45
BA in Bengali	658	205	181	357	224	46	38	45	45	28
BA in English	954	1,316	1,430	2652	1499	54	45	64	53	43
BA in History	642	292	310	372	364	42	37	44	39	42
BA in Pol.Sc.	369	237	242	370	243	47	48	51	53	44
BA in Philosophy	318	74	67	96	34	28	23	29	25	19
BA in Sanskrit	225	55	29	64	30	21	17	12	9	3
BA in Persian	187	40	19	44	29	25	31	43	30	45
BA in Urdu	380	144	175	212	243	74	78	89	83	89
BA in IHC	263	65	87	96	161	39	41	43	39	40
BA in Sociology	306	157	182	337	228	35	32	41	39	33
B.Sc in Economics	576	330	275	577	429	51	52	55	48	46
B.Sc. in Physics	755	1,777	1,138	1594	1350	53	40	53	35	35
B.Sc. Chemistry	894	1,122	996	2029	1618	54	46	59	43	30
B.Sc. Mathematics	982	1,304	679	2130	1049	50	44	57	49	29
B.Sc. in Zoology	516	1,349	1,481	659	2116	39	34	50	34	35
B.Sc. Botany	460	449	405	574	570	30	25	32	25	19
B.Sc. Microbiology	188	532	564	925	831	25	26	20	18	17
B.Sc. Statistics	212	368	228	659	388	26	25	24	25	27
B.Com Accounting and Finance	1,230	1,456	1,337	1812	1627	81	74	85	73	58
B.A Arabic General	322	51	62	95	429	40	40	40	40	43

Programme	No. Applied (2010-11)	No. Applied (2011-12)	No. Applied (2012-13)	No. Applied (2013-14)	No. Applied (2014-15)	Admitted (2010-11)	Admitted (2011-12)	Admitted (2012-13)	Admitted (2013-14)	Admitted (2014-15)
B.A Persian general	233	261	332	481	-	43	41	63	65	42
M.A. in English	186	192	181	251	114	20	20	20	20	24
M.A. in Urdu	128	126	134	97	35	35	35	35	35	37
M.Sc. in Zoology	226	338	346	666	469	25	25	25	25	28
Total PG	540	656	661	1014	618	80	80	80	80	89
TOTAL UG	13025	17719	15234	18051	13370	932	871	1058	930	856

\*From 2010-2014- pre registration data

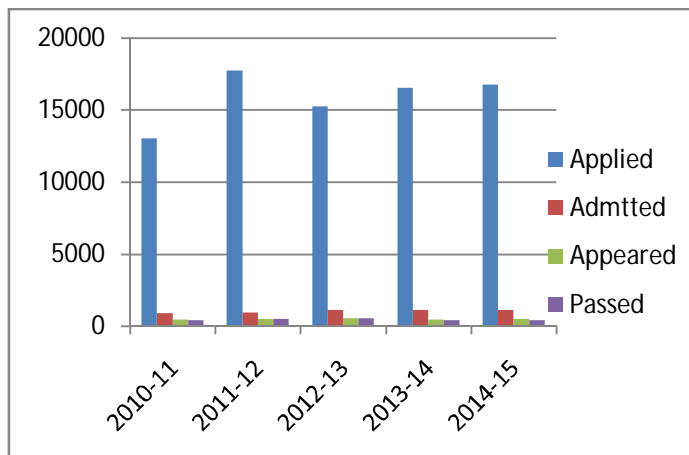


Fig 2.1: Figure depicting Demand: Admittance ratio over the years: A Comparative account of demand, admission and success ratio from 2010-11 to 2014-15 academic sessions.

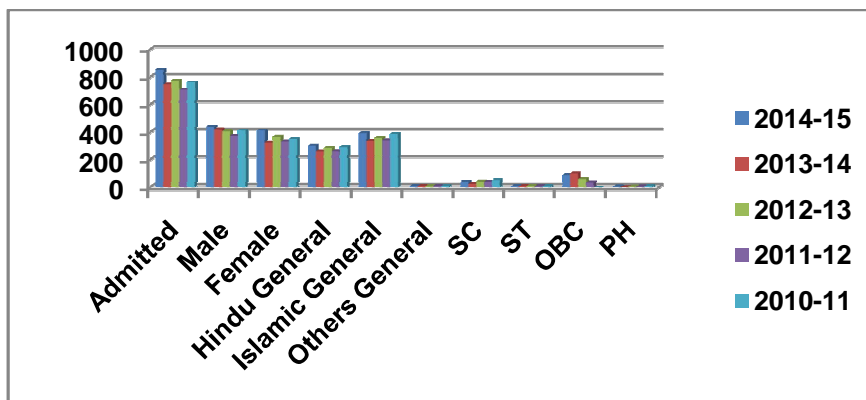


Fig 2.2: Figure depicting Student Diversity in admission

## 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 is fully governed by the Government of West Bengal and strictly adheres to the proclaimed policy of reservation for differently able applicants.
- Separate merit list is published for this category and the college has infrastructure facilities including ramp, wheel chairs etc.
- The fee structure for these candidates is determined as per rules.
- Applications for free studentship on merit-cum-means basis are collected on the day of admission itself from these students.
- Seats in Hostels are allotted in accordance to the existing government rules.
- Need based support is available for the differently abled students inside the college.

### 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

**UG-** The criterion for admission to UG courses, as mentioned earlier, is merit alone. However, total admission procedure is conducted through counselling. Students are counselled on the day of the admission to help them to take admission to the suitable subjects and courses. Moreover, during admission there is a student's Help Desk to address the needs of the applicants and also to answer their queries.

**PG-** In Post Graduate courses, 40 % seats are open to home and other universities. And admission tests are conducted to fill in these seats. For the rest 60%, merit list is prepared on the basis of marks obtained in last degree examination. In addition, counselling is conducted prior to admission.

### 2.2.2. What are the strategies drawn and deployed 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?

The college has a U.G.C. sponsored Remedial course for students of the non-creamy layers. Special classes are held in various subjects to help the academically weaker students. These classes provide academic help to those students who need extra coaching and more personalized attention to tackle the UG syllabi.

- Apart from this, regular Tutorial classes are held to bridge the knowledge gap.



- Group-discussions on a selected topic raised by the students are frequently conducted for conceptual clarification.
- Student projects have become an important part of curriculum enrichment in the last few years in different subjects. These projects have really been proved to be highly effective in bridging the gaps.
- The college conducts add on courses like Basic Computer Skill development for the non-creamy section as a part of their initiation to higher studies.

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

**On Gender Issues:** Despite a co-educational system, the college caters to the educational needs of women. The college has a U.G.C. funded Women's Studies Centre which undertakes research on gender issues, organizes seminars and various other programmes to discuss and deliberate on gender issues. The Cell against sexual harassment organizes seminars, employs students in poster competitions regarding awareness of women- ability and potentiality.

**On Inclusion:** The institution is an inclusive one where there is no discrimination made on the basis of religion, caste, ethnicity, region, language, sex, social status etc. Different interactive programmes are being organized to sensitize the students about the same. The anti-ragging cell of the college is active in this regard.

**On Environment:** The institution is also fully aware of its responsibility to protect and preserve the environment of the college. The NSS unit of Maulana Azad College leads in this field. This unit organizes different student-oriented programmes for the maintenance, beautification, cleanliness and the aesthetics of the college premise. A botanical/ medicinal plant garden maintained by the Botany department is one indicator to monitor the environment inside the campus. Despite the fact that, the college is situated at the heart of the city, there is a good collection of healthy exotic plants inside the campus. Moreover, the college has its own environment awareness initiative named, SEBCA, which works in tandem with selected schools, both urban and rural, towards the desired goals i.e. generating bio-diversity awareness.

**Other community initiatives:** Different community awareness programmes like Blood-donation camps, drinking water monitoring facility, socio-cultural meets like Iftar, Milad-ul-Nabi, Swaraswati Puja, Independence Day and Republic Day celebrations in the locality are centred on this college. This college acts as a nodal and pivotal model for amity and harmony in the unique diversity of the population of the area concerned.

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

Besides supporting academically backward students, the college provides various scopes and opportunities for advanced learners. Followings are worth mentioning among them.

- **Library resources:** The College has excellent library resources. Apart from near about 90,000 books, we subscribe to 23 journals and one hugely resourceful E-inventory like JSTOR. The archival collection of the library is enviable. Digitizations of many old Persian and Urdu manuscript and books have been completed.
- **Networking:** The Library is DELNET INFLIBNET connected. All departments are networked. Open access search engines can be accessed to by any student during college hours and vacations. Wi Fi connectivity is there in majority of the college premises. JSTOR can be accessed from home as well.
- **Dual borrowing:** The College offers a dual borrowing facility to all its students. Two books each can be borrowed from Central and Departmental Library each. The departments provide sufficient study materials to advanced students, both texts and references. Moreover advanced students can apply for Book Grants under UGC-CPE assistance scheme.
- **Language laboratory:** With six language options, the students seeking to pursue literature, can get involve in different activities of Language lab like the translation projects, interactive seminars symposia etc.
- **Laboratory Resources:** All science laboratories are DST-FIST recognized and have been funded through UGC-BSR grant. Biological Sciences along with Physics and Chemistry laboratories are recognized under DBT STAR COLLEGE scheme. Hands-on training programmes, projects, student publications, have become important parts of curriculum enrichment initiatives.
- **Student projects & Seminars:** Apart from compulsory project work, enterprising students are very often engaged with different projects to enhance their academic skill. Each and every department organize students' seminar to augment the skill development (DBT- star College programme).
- **College publications:** The college publishes peer reviewed journals in Science and Humanities named "MAC Journal of Basic and Applied Sciences" (issues in 2013 and 2015), and "MAC Academic Journal of Languages and Social Sciences" (first issue in 2015) and the Journal of PG Department of English (issued since 2011).

Enterprising students publish their own little magazine “ALOKJATRI” periodically in which the teachers also contribute their articles. ENVIRONEWS is published by National Environmental Science Academy, Kolkata Chapter in association with the Microbiology Department. In addition, all departments publish their respective wall magazines from time to time.

- **Peer meets:** Different departments frequently invite eminent scientists and academicians for delivering speech on selected topic of the syllabi. Student participation at those talks is immensely helpful for their preparations in the examinations and their outlook is also widened.
- **Visit to institutions/labs:** visits to research institutes, and industries to address the needs of advanced learners. Students of the various departments attend special classes in different research institutes for wider research exposure.
- **Field tours:** Some Science Departments like Zoology, Botany etc. And the Department of Sociology regularly conduct field-tours. Apart from that, other departments also organize excursions. These initiatives go a long way in qualitative improvement in teacher-student relationship which in turn benefits both.
- **Cultural Programmes & Competitions like Drama/quiz/mock-parliament:** These types of programmes, uniting students of different department together, also help to enrich academic upliftment. By their participation in such extra-curricular activities, they manage to develop their personalities and thereby become more successful and responsible citizens of the nation.

**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):**

**Results:** The academic performance of the students is best revealed by the examination results. This data enables the teachers of the college to advice and guide the students and also counsel those who are weak and fail to cope with the academic standard of the college. Remedial classes as said earlier are taken by the faculty members of the institution to help the under-performers.

**Feedback from the faculty:** The faculty is in the best position to form an opinion about a student. They counsel them, contact their guardians, and try to take opinions from their friends to suggest remedial activities.

**Feedback from hostel:** Feedback from hostel superintendant is important to support a student in such risk. The faculty also tries to gather information from hostel mates.

**Feedback from guardians:** Parent–teacher meetings are organized as part of initiation activity. Periodic meetings with guardians are usually organized post-tests to make them aware of their wards.

## 2.3 TEACHING –LEARNING PROCESS

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

- **Academic Calendar:** Departmental committees meet at the beginning of the session to frame the academic calendar as per university guidelines. The teachers' Council approves this in its meetings.
- **Assigning modules:** The modules are assigned in the respective departmental meetings and distribution of syllabi is in conformity with the statutes and requirements of the university. The teaching plan is made known to the students before the session.
- **Assigning classes:** The classes are assigned to the teachers and the same is sent to the central Routine Committee of the college. The Time table is then formally framed by this committee and uploaded in the college website.
- **Evaluation:** The academic calendar takes into account the term end tests and annual tests for each class. The class tests are routinely taken but no fixed timetable is set for this purpose.

Through all these procedures the college plans and organizes the teaching, learning and evaluation schedules.

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

The members of IQAC hold meetings to plan overall development of the college and suggest the means of implementing these plans. It frames AQARs annually, finalizes the budget, and looks over the general administrative and academic affairs within the ambits of UGC and University guidelines. The IQAC monitors research proposals and their implementations. A detailed account of facilities developed is maintained by the IQAC. It takes into account individual teacher's performance in both curricular and extra-

curricular areas for their career advancement. The schemes like UGC Plan and merged grants, DST-FIST, DBT Star College etc have been proposed and implemented under the overall guidance of the IQAC. Following are examples of a few of the goals set by the IQAC and achieved through its initiatives from 2009-10 to 2013-14:

Goals	Status
Research scale up gradation of laboratories	PG department of Zoology ,Department of Chemistry and Microbiology have been recognized as Ph.D. centre by the University
Improvement of Library	Open Access facility introduced.
Medicinal Plant Garden	Achieved
Socio-Economic interdisciplinary Research with provision of seed money	7 projects completed
Translation workshop in all languages taught in this college	Two works completed
Establishment of a Centre for environment awareness	SEBCA established
Imparting IT training as a catch up measure for underprivileged	Established an IT training facility and three batches till date benefitted.
Institutional prizes	Successfully implemented and Prize distribution ceremony held in 2013 and 2015
Establishment of anti-ragging cell	Implemented
Establishment of Women's' Study Centre	Implemented

### 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?

- **Student centric initiatives:** The institution has internet and LAN based connectivity through which the students can access study materials as and when they require. Interactive learning is conducted through workshops, seminars and peer meets with faculties from Central and State universities and Research Institutions. A brief highlight of these initiatives is given in 2.3.4 below.
- **Teacher development Initiatives:** Teachers can approach ICT based teaching-learning as the college provides ample opportunity to do so. They have free access to printers, papers, CDs, laptops, interactive consoles, amplifiers, LCD projectors in addition to majority of books of their choice. They guide student projects, conduct workshops and publish papers with students. The college encourages retraining of teachers and gives necessary leave for the purpose.

### 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?

- Post admission, the **students meet the faculty in initiation programmes** where they are introduced to the scopes and objectives of the subject. The students are cited examples of alumni who have done well in their respective fields of study.
- Several **peer meet programmes** are arranged throughout the year where old students pursuing academics and other areas are called to meet the students in close interactive sessions. These initiatives have been very fruitful for the students in departments like Zoology, Microbiology etc
- Students are encouraged to optimally **use the ICT** in developing interest and skill. They are encouraged to compete for all **national entry level examinations** and given required resources and guidance for the purpose. Every year, some students crack various All India Entrance Tests like JAM, JNU Biotech, NET, and GATE. Students in last four years have been able to get themselves admitted in IISc Bangalore, Forest research Institute, Dehradun; NCBS, IITs, Chennai Mathematical Institute, Hyderabad University, Osmania, Jamia Milia, Delhi University etc. They are the true inspirations for students who are admitted to this college.
- Several **student centric programmes** have formed part of our academic schedule. Quiz fest, Inter college debate, essay writing competitions, institution visits, excursions, Mock Parliament, Mushira, Translation project, Drama projects have been materialized at the initiative of the students.
- In addition, teachers are encouraged to impart **extra-academic hands-on training** to the students to motivate them and to enhance their skills in handling instruments, designing experiments and present their observations in larger forum.

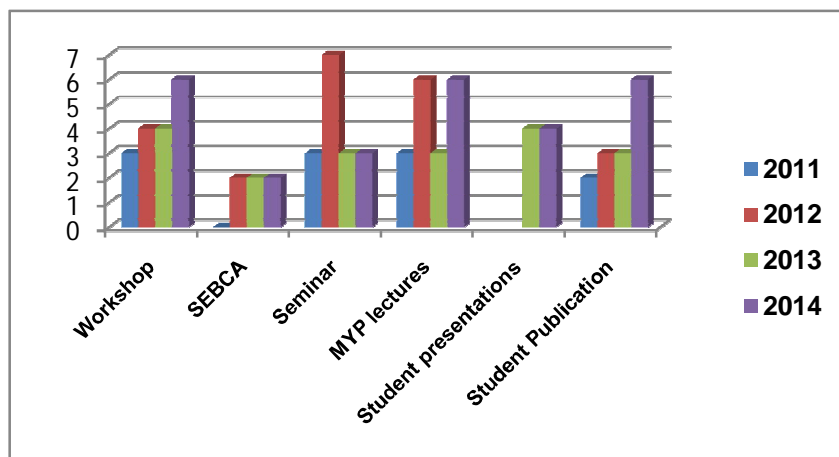


Fig 2.3: Depiction of Student centric activities during last four years.

### 2.3.5 What are the technologies and facilities available and used by the faculty for effective teaching?

- ✓ The library is DELNET/INFLIBNET connected and teaching/research materials can be sourced from there.
- ✓ Access to e-inventories like JSTOR had been hugely instrumental in material preparation.
- ✓ Wi-Fi connected smart classrooms in several laboratories have been useful in sourcing e-materials in teaching.
- ✓ Molecular Biology cyber lab ([www.life.illinois.edu/molbio/](http://www.life.illinois.edu/molbio/)) is open source virtual lab which is frequently sourced for molecular biology protocols.
- ✓ Howard Hughes Medical School Virtual open source materials are frequently accessed to ([www.hhmi.org/biointeractive](http://www.hhmi.org/biointeractive)) particularly for animations.

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

In addition to the programmes mentioned in 2.3.3 and 2.3.4 the college organized several National Level seminars/symposia/capacity building programmes during this period:

**Table 2.7: National Level Seminars, Symposia, Capacity Building Programmes**

Sl. No.	Year	Department	Sensitization programme	Seminar/Symposia (National Level)	Sponsoring Agency
1	2010	Sociology	Capacity building for women managers in higher education		UGC Allocation Rs.4,60,000/-
2.	2010	Political Science & Islamic History and Culture		Trade in medieval India	UGC CW-027/09-10(ERO) dt.09.10.09 Allocation: Rs.1,40,000/-
3.	2010-11	History, Philosophy, Pol.Sc		Visibility/ Invisibility : A Query into the Condition of "Women" in India	UGC Allocation: Rs. 1.50 lakh
4	2010-11	Urdu		Life and works of Nazeer Akbarabadi	UGC allocation: CW-034 /10-11(ERO) Rs. 1.50 lakh
5.	2010-11	Microbiology & Chemistry		Modern trends in Spectroscopy	UGC CW-032/10-11 (ERO) Rs.1.50 lakh
6.	2010-11	Sociology		On Human rights Education	HRE sanction No. 1-77/2011 Allocation: Rs. 1.0 lakh

7.	2010-11	College	Commemoration of 150 <sup>th</sup> birth Celebration of R.N.Tagore		UGC –CW-200/2010-11 (ERO) Allocation: Rs.1 lakh
8.	2011-12	Pol.Sc & Economics		Maulana Azad: Education & Government	UGC/CW-193/2011-12 Allocation:Rs.1.50 lakh
9.	2011-12	Economics		On Disaster Management	UGC/CW-243/11-12(ERO) Allocation: Rs.1.0 lakh
10.	2011-12	Chemistry		National Symposium on ‘The Journey of Chemistry Through Ages-Yesterday Today Tomorrow organized by the, Maulana Azad College, November 23 <sup>rd</sup> and 24 <sup>th</sup> , 2011	UGC Rs. 1 lakh
11	2012-13	Sociology	Capacity building for women managers in higher education		F.18-2/2012[WS] dt.22.10.2012 UGC Allocation Rs.9,16,575/-
12	2012-13	English		On 150 <sup>th</sup> Birth Celebration of Swami Vivekananda dt.22.01.13	Sanction No. CW-071/12-13 (ERO) Approved amount: Rs. 1.10 lakh

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

Following support and guidance services are provided to bridge the knowledge gap among those who seek to improve these skills.

**Table 2.8: Support and Guidance services**

Course	Conducted by	Total Enrolment (2010-2014)	Remarks
<b>Certificate course in Computer skill</b>	Department of Sociology	141	Programme to encourage inclusiveness.
<b>Mathematical skill development</b>	Department of Mathematics	51	For the students who need to develop math skill for appearing in competitive exams.
<b>NET/SET Coaching Centre for SC/ST/Minorities</b>	Zoology, English and Urdu Department	299	Enables the students for appearing in Life Sciences and these two languages.
<b>Entry into Services Coaching Centre for SC/ST/Minorities</b>	Islamic History and Culture Department	517	For SC/ST/OBC/ Minority students



**❖ Gender Sensitization: Women study Centre**

- An Awareness Programme on Women's Health and Well Being' held on 11.09.2012, organized by the Women Studies Cell of Maulana Azad College. It was principally for the girl students of the college. A consultant Gynaecologist, Dr. Mausumi Banerjee, addressed the students with the help of a power point presentation. The inter-active session was of enormous help for the students as they could clarify their confusions about their health problems, and also had some orientation on sex education. About 150 students took part in it.
- The Pre-Conception & Prenatal Diagnostic Techniques Act 1994'- Organized in collaboration with CINI, Kolkata Urban Branch on 10.09.2015

**❖ Programme for entrepreneurship for SC & ST, Minority girls students:**

Activity by NGO is an important part of the civil society movement. They help the marginalized by providing direct help and also by creating awareness among the target population of their rights. To continue with the task of motivation and also for creating awareness, seminars and workshops were arranged for the target group. One such program was organised with in collaboration with Sanglap, Kolkata under CPE –UGC. Almost **200 students** from colleges in and around Kolkata including many of our students got actively involved in the initiative.

**❖ Cell against Sexual Harassment: counselling and awareness initiatives for both boys and girls:**

- On **05.02.13** the Cell was inaugurated by Dr. Ishita Mukherjee, Director, Centre for Women Studies, University of Calcutta and Prof. Pratap Ch.Ray had presided over the session. Copies of the '**Vishaka Guidelines**' against Sexual Harassment in the Workplace' were circulated in the session. Presence of students, teachers, and office-staffs made the programme stimulating. It was attended by about **150 students**.
- A workshop of seven days (**17<sup>th</sup> April, 2013 to 24<sup>th</sup> April, 2013**) was conducted by the Cell to enhance the awareness among students on the issue of gender sensitivity. First year students, boys outnumbering the girls, joined the programme enthusiastically. Several talks and interactive sessions were organised to open up a dialogue on the issue of gender sensitivity. In all about **215 students** took part in it. They were repeatedly reminded that any lewd jokes, sexist gibe; dirty gestures would make a person culpable of sexual harassment. They were inspired to make several posters on the issue, nurturing the concept that no harassment could be inflicted on a girl. The message was conveyed through a play titled 'Sita' written and directed by

the eminent theatre personality, Prof Ujjal Chattopadhyay, who is a member of our faculty.

❖ **Anti-Ragging cell in Hostel & Monitoring facilities for Boarders:**

Despite our best effort we must admit that we could not completely eradicate the incidence of Ragging from our society. Maulana Azad College has Baker Hostel and the Hostel committee takes stern steps as well as conducts counselling sessions for both victim and perpetrators. For better monitoring of the boarders an anti ragging cell in the Hostel was established and a 24x 7 CCTV monitoring facility is now available in the Baker Hostel. CPE has also funded improved water supply system, library and computer facility in the hostel. About 350 students are monitored through this facility.

❖ **Health Check up Centre:** To look after physical well- being of the students, Dr.

Javed Saud Hassan, MBBS, is attending the unit at the Boys' Hostel on every Saturday and the unit is also open for anyone who wishes to take this facility. The unit is complete with Primary Patient Observation System procured under this scheme.

❖ **Mentoring:** Several counselling and mentoring programmes are arranged throughout the year. These are basically departmental initiatives and many past students take part in these programmes. Please refer to the table appended in 2.3.6 above.

**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?**

Following table outlines the innovative teaching approaches/methods adopted by faculty in last four years:

**Table 2.9: New Approaches/Methods introduced**

Curriculum	Enrichment initiatives	Year of Introduction	Approach
UG degree in Accounting	Computer applications	2009 modifications in UG syllabus	Curriculum augmentation
UG degree in Sociology	Project Based Practicals	2009 modifications in UG syllabus	Curriculum augmentation
Zoology	Animal House and animal tissue culture	2010-11	New Special Paper introduced
Zoology	Introduction GPS application in Ecology	2010-11	On field approach
Chemistry	Introduction of FTIR based hands-on training	2012-13	Enrichment initiative
Microbiology	Project work on enzymology	2011-12	Syllabus introduction

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

By recommending reference work, accessing internet facilities to students the teaching-learning process may be augmented.

- ✓ Dual referencing sources, from central library and from departmental Library respectively
- ✓ Internet accessibility from Library, departments, staff Room and largely LAN connected campus.
- ✓ DELNET-INFLIBNET connected library recognized as a National Grantee from National archives and State archives.
- ✓ E-inventory like JSTOR accessibility for all.

**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.**

**Yes**

- The college teaching hours are hugely compromised due to University Examination schedule from March to August each year. Extra classes are arranged to compensate the loss of teaching days. The vacations are usually sacrificed for the benefit of the students.
- The Government funds are often released late in a financial year and purchase process has to be delayed and sometimes that affects the completion of academic calendar in scheduled time.

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

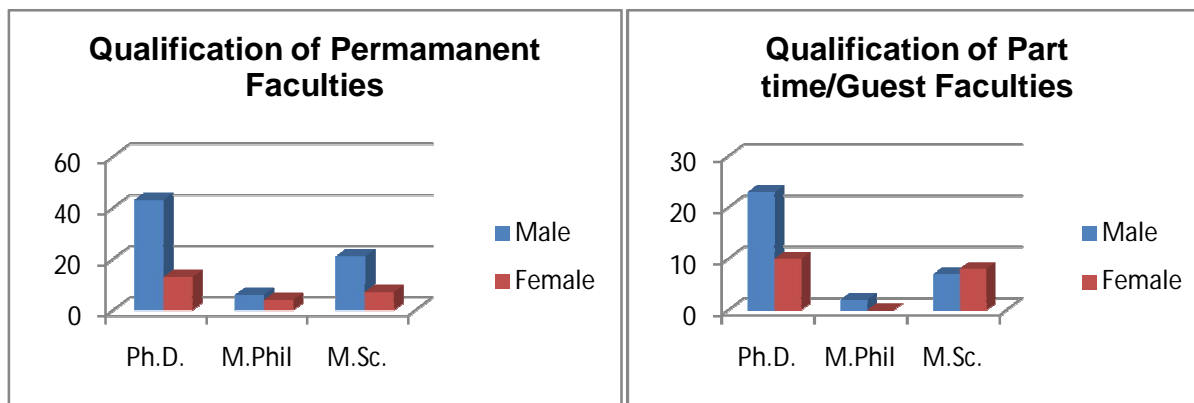
- Through the student's feedback information system.
- Through regular self assessment of the faculty.
- Through the Monthly/Mid Term/College Test/ University Examination results of the students.
- Through progression of the students.
- Through comparative analysis of skills of our students with those of other colleges through seminars, poster presentation sessions etc.

## 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 2.10: Faculty Qualification**

Highest Qualification	Professor		Associate Professor	Assistant Professor			Total
	Male	Female	Male	Female	Male	Female	
<b>Permanent teachers</b>							<b>92</b>
D.Sc./D.Litt.	-	-	-	-	-	-	-
Ph.D.	2	-	17	1	26	8	54
M. Phil	-	-	3	1	5	3	12
PG	-	-	7	2	14	3	26
<b>Temporary teachers (Guest faculty)</b>							<b>23</b>
	Male			Female			
Ph.D.	14			3			17
M. Phil							
PG	2			4			6
<b>Part-time teachers</b>							<b>22</b>
Ph.D.	9			5			14
M. Phil	-			1			1
PG	2			5			7



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.

- ❖ The college in its faculty has a number of eminent teachers and scientists to bridge these demands. Eminent Academicians, Scientists and experts in their areas are engaged as Guest faculty particularly in the Post Graduate Departments of English, Urdu and Zoology.

**List of Guest Teachers:**

<b>Name and Affiliation</b>	<b>Department</b>
Prof. Pulak Lahiri, Former Head, Department of Zoology, C.U	Zoology
Dr. D.K.Nath, Rtd. Scientist	
Dr.R.Bhattacharya, Former Head, Bethune College	
Dr. B.Sengupta, Rtd. Associate Professor	
Dr. R.K.Mukherjee, Retd. Scientist	
Dr. Rupendu Roy, Rtd. Associate Professor	
Dr.T.Mukherjee, Rtd. Associate Professor	
Dr.N.Chakraborty, Rtd. Associate Professor	
Dr.T.N.Khan, Rtd. Associate Professor	
Prof. Shanta Mahalanobis, Rtd. Professor	
Dr. D.P.Bhattacharya, Rtd. Professor, KU	
Prof. Niladri Ranjan Chatterjee, Rtd. Professor, KU	
Prof.Praloy K. Deb, Rtd. Professor, KU	
Prof. Chhanda Chakraborty, Rtd. Assoc. Professor,	
Prof. Tapati Gupta, Rtd. Professor, CU	
Dr. Madhumita Majumder, Rtd. Assoc. Professor	
Prof. Namita Chakraborty, Rtd. Assoc. Professor	
Prof. Debaprasad Banerjee, Assoc. Professor, WBES	
Dr. Y.R.Taqi, Rtd. Professor	Urdu
Prof.Qaisar Shameem, Rtd. Professor	
Prof. S.M.Shabbar, Rtd. Assoc Professor, WBES	
Prof.Shahira Khatoon, Rtd. Professor	
Dr. Shamim Anwar	

- ❖ Students get exposed to a host of methods and undertake innovative projects to keep themselves up to date.
- ❖ They get to meet peers and experts from different scientific institutions and universities. A list of scientists from reputed institutions home and abroad who have expertise in these fields have been given in Table 8.

### 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 2.11: Nominations to different Staff development Programmes**

<b>Nominations per year</b>	<b>Refresher Course</b>	<b>Orientation Programme</b>	<b>Staff Training/ Retraining</b>	<b>Workshops</b>
2010-11	8	3	1	9
2011-12	5	1	11	4
2012-13	7	2	2	3
2013-14	12	2	2	11
2014-15	11	1	-	2

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

Teachers took part in several strategy and new technology oriented workshops/programmes which were perceived to be of help in teaching –learning. (i) Training for Chemistry and Microbiology teachers in collaboration with Indian association for cultivation of Science in Spectroscopy (ii) training for Zoology teachers in understanding biodiversity: Assessment, Analysis and Conservation (iii) various programmes aiming at retraining of teachers at IICB, SINP and NICED (iv) workshops on Disaster Management with a goal to Strategy Development Initiative are some highlights worth mentioning.

**c) Percentage of faculty**

- \* **invited as resource persons in Workshops / Seminars / Conferences organized by external professional agencies :**
- \* **participated in external Workshops / Seminars / Conferences recognized by national/ international professional bodies :**
- \* **presented papers in Workshops / Seminars / Conferences conducted or recognized by professional agencies**

**Table 2.12: Involvement of Teachers in External Programmes**

Year of report	Resource Person in external professional agency (in number)	Participated in external workshops/seminars/conferences recognized by National / International professional bodies	Presented papers in workshops /seminars conducted by external professional agencies
2010-11	3	39%	30%
2011-12	1	18%	38%
2012-13	3	21%	55%
2013-14	1	24%	55%
2014-15	-	14%	21%

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

**Funding Research:** There is limited scope for funding research or releasing personnel for study leaves of their own for a Government Institution. However, we have been able to provide seed money for small projects under UGC-CPE Grant. These are depicted in the Table below:

**Table 2.13: College Funding for small research projects:**

1.	2010-11	UGC-CPE	Seed Money for short-term research	Rs.10,000	Gender Roles and Stress-differences: A Study of Professional couples PI: Ms. Aditi Basu
2.	2010-11	UGC-CPE	Seed Money for short-term research	Rs. 30,000	Exploring Social-Ethical Context of Indian Medical Science PI: Prof. Arpita Sengupta Prof. Ananya Roychowdhury
3.	2010-11	UGC-CPE	Seed Money for short-term research	Rs. 10,000	Stress Management among Professional Couples Prof. Aditi Basu
4.	2010-11	UGC-CPE	Seed Money for short-term research	Rs. 18,000	Employment Prospect and economics status of women workers in unorganized sector Prof. Nandita Basak Prof. Barnana GuhaThakurta
5.	2010-11	UGC-CPE	Seed Money for short-term research	Rs. 10,000	Concept of war and its socio-economic political impaction Political Philosophy Prof. Sanghamitra Dasgupta
6.	2010-11	UGC-CPE	Seed Money for short-term research	Rs. 10,000	An analytical survey of female workers in shopping malls of Kolkata Prof. Shampa Dutta Gupta
7.	2010-11	UGC-CPE	Seed Money for short-term research	Rs. 10,000	An analytical survey of management values in West Bengal ethical and non-ethical issues. Prof. Nandita Bagchi
8.	2010-11	UGC-CPE	Seed Money for short-term research	Rs. 10,000	Group theatre and women PI: Prof. Nandini Saila Dasgupta

The observations have been published in a Collection titled: “Wanderings on Women, Work, Well Being and War” Edited by Prof.S. Ghosh, Professor of Economics.

**Other modes:** Teachers, as per rules, have to channel their applications for study leave through the Principal to the DPI and usually all such applications are forwarded.

**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.**

**Table 2.14: Faculty Recognition**

Year.	Awardee	International.
2010-11	Dr. Debaprasad Chatterjee, Associate Professor of Sociology Co-Investigator, India Chapter, Country Case	Comparing Climate Change Policy Networks (COMPON): Institute of Rural Management. NSF Grant No. 0827006 Project Value:\$589,539
2010-11	Dr. Debaprashad Chatterjee, Associate Professor of Sociology	Recipient of Fulbright Fellowship

Year.	Awardee	International.
2011-12	Prof. Parimal Bhattacharya, Associate Professor, Dept. of English	Won an award to write an assessment report on Alternative Education Programme being conducted in Mayurbhanj district, Odisha by the non-government organization in collaboration with Welthungerhilfe, Germany
2011-12	Dr. Pradip Kumar Kar, Assistant Professor of Zoology	The Indian PI of National Science Foundation's (USA), Planetary Biodiversity Inventory grant of US\$ 3 Million

**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.**

- Feedback from students are immensely important to judge oneself on several aspects- clarity in thought and expression, ability of holding interest quotient unaltered throughout a period of interaction with a group of students, vocabulary and so many other things. These are discussed in the departments and corrective measures are taken whenever necessary.
- Feedback from peers is another important tool in running our curriculum enrichment programmes successfully. These peers include External members in IQAC, external experts in DBT Star College scheme, invitees in workshops and Hands on trainings, external members in BOS etc. Their views have been truly a guiding force in implementation of our plan and ethics.

**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?**

All students, on admission, are informed about the syllabi and the evaluation system followed by the University. The parents are also made aware of the system in the initiation meetings. The faculty as well as the students are given details of the module-wise marks distribution for each and every subject. No ambiguity regarding the evaluation process is left and this is considered to be of utmost importance.



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

As the Undergraduate courses are affiliated to the University of Calcutta the reforms incorporated by the University is followed by all stakeholders. Important changes which were initiated at this level include:

- **Modular distribution of syllabi** and marks in each paper
- **Compulsory project work on Environment studies** for each Final year student
- Introduction of **Projects in Commerce and Sociology**

PG course are autonomously controlled. During the years of report following changes were brought about:

- **PG (English) and PG (Urdu)** have adopted **Semester system** since 2009
- **PG (Zoology)** has adopted **CBCS** since 2014-15

### **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?**

- Periodic Parents – Teachers’ meetings are conducted to appraise of the evaluation status of the students on the basis of term end examination results and results of frequent class tests.
- The Institution conducts the internal examination modelled on University requirements for the students and likewise the evaluation is done by the teachers who have enough exposure to the system.

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

- ✓ The formative approaches are regular class-room teaching, short term assignments, term papers, seminars, unit tests and model examination.
- ✓ The summative approach involves analysing the university examination results, identification of key areas of weakness of every student, and approaching in such a manner so that the students can override the difficulties at the end of their courses.

For example,(i) benefits of designing remedial coaching protocols to strengthen the writing skill has been reflected in university final year results (ii) Designing hands on training courses to strengthen practical skill of the students has given boost to the result of the students of the beneficiary departments.

**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 behavioural aspects, independent learning, communication skills etc.**

In an affiliated system, there is little scope of assigning weightages for the moral or behavioural parameters. Internal assessments are not taken into account in results of a student. However, we monitor each and every student on these aspects and our assessments are recorded in parents –teachers meetings. Moreover, the student appearing for viva-voce, students delivering seminar lectures, students defending project works are continuously subjected to screening by external examiners. In general, in science subjects about 10-20% of Practical marks are weighted for Viva –voce. In PG courses one Part paper is assigned for Seminar presentations.

**2.5.6 What are the graduates attributes specified by the college/affiliating University?**

**How does the college ensure the attainment of these by the students?**

- ⇒ There are plenty of schemes through which the challenged but desirous students can complete their studies without burdening the family finances.
- ⇒ The students from far-off regions can avail of hostel facilities in nominal or no cost at all.
- ⇒ The College ensures that these students perform to the satisfaction of the institutional authorities to continue in the schemes of support.
- ⇒ Many of the students receiving benefits are currently pursuing higher studies in reputed institutions in India and abroad.

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

Since all the programmers are evaluated by the university, any grievances related to university is directly attended by the university. University, on being approached by the student through the Principal of the college, arranges for re-examination, review and deliver photocopy of evaluated scripts.

For evaluation done in the college itself, students are shown the scripts and in case of grievances, the HOD or the Principal can be approached.

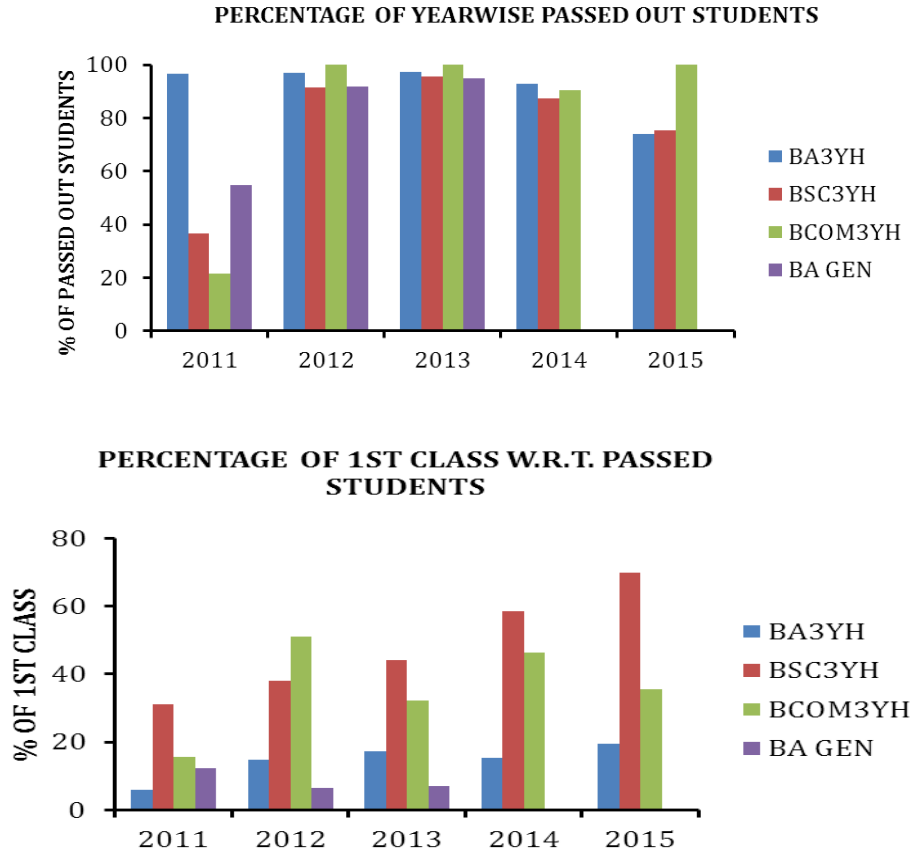
## 2.6 STUDENT PERFORMANCE AND LEARNING OUTCOMES

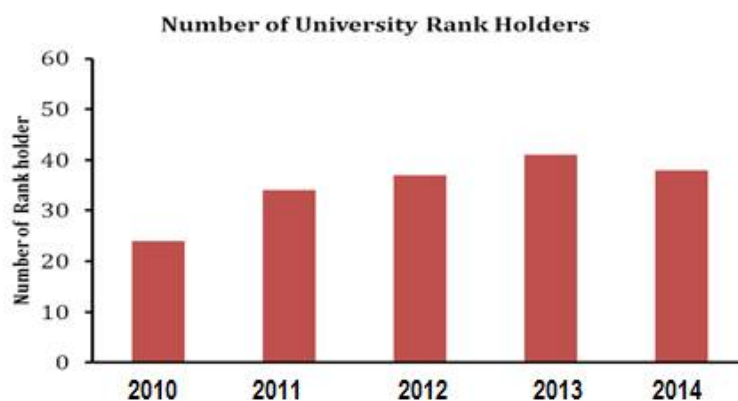
### 2.6.1 Does the college have clearly stated learning outcomes? If “yes” give details on how the students and staff are made aware of these?

**Yes.** Learning outcomes involve academic pursuit following an academic calendar which is published and made open to each and every stakeholder well in advance. It also involves various extracurricular and extra-academic activities which are communicated to the students through various means apart from the prospectus. Awards for achievers are included in social calendar of the institution. Support schemes, both financial and academic, are well publicized through website, manual notices and prospectus.

### 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 student’s results/achievements (Programme/course wise for last four years) and explain the differences if any and patterns of achievement across the programmes/courses offered.

The Institution monitors the results through the unit and class tests, the tutorials and finally the university examinations:





The data depict that there is a **general improvement** over the years of report. Number of **students placed in 1<sup>st</sup> Class** as well as **number of rank of holders was increased** appreciably although there is a marginal fall in 2014 results. We have noted the unsteady nature of the outcomes in B.Com courses in particular. Accordingly, remedial measures were recommended and we are confident that the results will continue to improve across all the programmes in days to come.

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

In each semester, the following schedule is implemented:

- At the beginning of each academic session, the students are made aware of the modules to be covered.
- Each teacher is assigned with module based units to be covered by him/her during a given period.
- Class tests and Term end tests form important components of assessment processes.
- Test examination is modelled on University examination. Results are analysed and special classes, remedial classes; tutorials are arranged for challenged students.
- Each student is required to submit assignments on Environmental Science during final year and projects are evaluated internally by the teachers of the college
- PG students are required to deliver seminar lectures on the topics of their learning. This helps them to organize their ideas and the presentation skill. Students are encouraged to develop their communication skill through class room seminars.

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

- ✓ Computer skill development programme for Girl students.
- ✓ Hands on training programme to encourage extra-academic pursuits
- ✓ Encouraging both on campus and off campus interviews
- ✓ Encouraging student seminars, student presentations and student publications.
- ✓ Encouraging Literary and Performing Art pursuits in guidance of teachers and experts in the fields
- ✓ Encouraging Entrepreneurship among the girls through in campus programmes organized during the reference period.

#### 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 college has a committee to tabulate and monitor the results of the internal examinations.
- ❖ University results are documented and comparative analysis is undertaken
- ❖ The observations from above are utilized to identify and redress the key areas to be addressed.

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

- University results as well as college examination results are taken into consideration for assessment of the students.
- Good students are awarded for General proficiency, academics, attendance and extra-curricular activities by the college.
- Rank holders in the university are felicitated in the college function.
- Campus Placement initiatives have been taken.

#### 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 and cite a few examples.

Yes.

Each teacher assesses the student for regularity in **attendance, communication skill, independent thinking** and **performance in internal examinations**. Planning and approach to learning is based on these assessments. However, except internal

examination, these approaches are qualitative and our assessments are communicated to the parents.

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

- Many of the students are first generation learners and extra care is taken for them to be included in the system.
- The teaching-learning process has to take the communication skill, the computer literacy and leadership qualities into account to train the students at UG level.
- The college frequently arranges Peer Meets to encourage the students to take up higher studies.
- Skill development programmes, Entry into services courses, remedial classes, institutional seminars and several other activities are aimed at qualitative enrichment of the students.

## Criterion III: Research, Consultancy and Extension

### 3.1 PROMOTION OF RESEARCH:

#### 3.1.1 Does the institution have recognized research centre /s of the affiliating University or any other agency/organization?

Yes. The faculty members of the Institutions are recognized by University of Calcutta and other Universities as the Research Guide and a number of students already have been awarded Ph.D. degree and some others have registered their name for Ph.D. Degree.

Name of the Department	Recognizing University	From the year
Department of Zoology	University of Calcutta	1992
	University of Burdwan	2012
	Vidyasagar University	2014
	Visva Bharati	2014
Department of Chemistry	University of Calcutta	2010
	Jadavpur University	
Department of Microbiology	University of Calcutta	2011
Department of Economics	University of Calcutta	2012
Department of Urdu	University of Burdwan	2014
Department of Physics	University of Calcutta	2014

#### 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 Institute does have a well constituted Research Board to monitor and address the issues of the research:

- Prof. Subir Chandra Dasgupta,-Convenor, Head P.G. Department of Zoology
- Dr. Swapan Bhattacharya, Head, Department of Microbiology
- Dr. Dabir Ahmed, Head, P.G. Department of Urdu
- Dr Asish K Mukherjee, Head, Department of Chemistry
- Dr Anuradha Sen, Head, Department of Philosophy
- All Head of the Science Departments

The Research Committee encourages faculty members for submitting research proposals to various funding agencies like UGC, DST, ICMR, ICHR, WB Biodiversity Board etc. The committee updates the teachers about the various schemes of these agencies and helps them to apply for the same. Consequently, a good number of faculty members have undertaken Minor & Major Research Projects from these organizations. Moreover, some of the teachers have completed their Ph.D. while others have been already enrolled for it. The Research Board is in charge of reviewing the Research Project Proposals prepared by the College faculty members for submission to funding bodies. The board's functions include:

- ✓ Faculty members who have not registered for Ph.D. programme are encouraged for registration in a University convenient for them.
- ✓ Teachers who have completed Ph.D. are encouraged to carry out inter and intra departmental collaborative research in possible cases.
- ✓ Initiatives will be taken to develop research linkage with other universities/institutions for pursuance of research projects through use of their state of the art infrastructure like laboratories, libraries and digital sources.
- ✓ Percolation of information on projects, awards, timelines etc.
- ✓ Research proposals are screened and forwarded by the committee and finally by the Principal.
- ✓ In order to inculcate inter-disciplinarily in the research arena the college is publishing three interdisciplinary research journal named; "MAC Journal for Basic And Applied Sciences" [ISSN: 2247-5366], "MAC Academic Journal of Languages And Social Sciences" [ISSN : 2395-2431], and "*Journal of the Department of English*", [ISSN: 2240-8737 ]
- ✓ Inter-disciplinary seminars have been organized over the last five years to encourage teachers and students to take up interdisciplinary projects.
- ✓ Centrally maintained stock purchased from research grants.
- ✓ Central accession of books
- ✓ Forwarding periodical reports, Utilization Certificates to the Principal for onward transmission to different funding agencies.

The board's recommendations have been successful in harnessing DST-FIST assistance, DBT-Star college assistance; INSPIRE research awards, FAST TRACK research awards, UGC research awards.

The college has IQAC, comprising of senior faculty Members, headed by the Principal,



which covers the aspect of research promotion. Whenever need arises the IQAC keeps open the option of the expert consultation.

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

- ⇒ **Up gradation** of all laboratories to support advanced research works.
- ⇒ **Central instrumentation facility:** The department of Zoology with Central instrumentation Facilities supports interdisciplinary research activities.
- ⇒ **Networking (INFLIBNET, DELNET):** E-Inventories like JSTOR are being subscribed to facilitate all users.
- ⇒ **Tie up with other institutions:** The college has facility and scholar sharing agreement with several Indian & Foreign Universities and institutions like University of Connecticut, Institute of Parasitology, ASCR , Czech Republic and University of Calcutta, University of Burdwan, Visva-Bharati, Indian Institute of Chemical Biology, Indian Institute for Cultivation of Science, The Calcutta Unani Medical College and Hospital etc.
- ⇒ **Fast disposal of Proposals:** The proposals are forwarded to funding agencies without any delay at the office end.
- ⇒ **Autonomy to the Principal Investigator:** Full autonomy is given to the Principal investigator for smooth conduct of the project.
- ⇒ **Timely availability or release of resources:** Funds sanctioned by the different agencies are released without delay as and when required by the researcher.
- ⇒ **Adequate infrastructure and human resources:** The College provides major infrastructural facilities like library, laboratory, computer and internet facilities to pursue research activities.
- ⇒ **Time-off, reduced teaching load, special leave etc. To teachers:** Teachers in general are permitted to carry out their research work during summer and Puja vacations. They can also pursue their work during the winter recess. Besides, one day per week is allotted for preparatory/research work. There is also a provision for Study Leave as per WBSR with prior approval from the Higher Education Department for completing research work. The teachers may avail this facility under FDP scheme of UGC if required. Teachers who are pursuing M.Phil. / Ph.D. and required to attend Course Work are provided with flexible working schedule. Duty Leaves are given to interested teachers who will present papers/participate in seminars and conferences.

- ⇒ **Support in terms of technology and information needs:** Laboratory facilities, equipments, Internet, LAN and other ICT enabled research support system, etc. Are made available to researchers
- ⇒ **Scholars:** Scholars are provided freedom in using laboratories in non-college hours and holidays. Their remunerations and contingencies are taken care of.
- ⇒ **Harnessing grants:** The College has harnessed grants from various funding agencies like UGC, DST, and DBT etc.
- ⇒ Facilitate timely auditing and submission of utilization certificate to the funding authorities

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

- Postgraduate students (Zoology, English and Urdu) are organizing periodical seminar lectures by eminent scientists, Teachers and well established ex students from external institutes.
- Postgraduate and Undergraduate students are to do Summer Project and Environmental project in the respective departments under the guidance of the teachers.
- Students are sent to different quiz contest (on or off campus), debates etc. Related to their respective disciplines so that they acquire current knowledge.
- Visit to different Research Institute, Industry and farm are organized for students
- Initiative for publication of wall magazine by different science departments.
- Conducting a set of Interdisciplinary Hands-on training programme has been the hallmark of sensitization initiative taken on our part. A summary of the programmes carried out in different departments are given below:

**Table 3.2: List of Extra-academic Hands-on training programmes**

Name of the programme		Number of trainings	Total number of student trainee
<b>ORGANIZED BY THE DEPARTMENT OF ZOOLOGY</b>			
a.	Hands on training programme of Estimation of TSH/T3 and T4 from the blood sample	1	20
b.	Programme on tiger census and pugmark analysis	1	20
c.	Demonstration on collection and preservation of insect at Rice Research Station Chinchura, Hooghly	1	20
d.	Visit to Science Express Biodiversity Special at Howrah Station	1	20
e.	Regarding the use of Global Positioning System and its application	1	20
f.	Isolation of lymphocyte from rat and mice from rat/mice spleen	1	20
g.	Observation of phagocytic activity by murine peritoneal macrophage	1	20
9.	Hands on training of Fruit fly Drosophila culture	1	25
10.	Identification of sex comb, food preparation	1	25

Name of the programme		Number of trainings	Total number of student trainee
11	Identification of Different mutant varieties of Drosophila	1	25
12	Preparation of Polytene Chromosome from salivary gland	1	25
13	Set up & interpretation of Mendelian Genetic cross	1	25
14	Demonstration of recent techniques on Poultry farming	1	25
15.	Ornamental fish breeding technique at CIFE	1	25
16	Preparation of Fish meal	1	25
17	Cultivation of Biofertilizer Azolla	1	25
18	Use of Camera trap in wild life Biology	1	25
19.	Assay of ex foliated cell micronucleus & other nuclear anomalies for chromosomal breakage	1	25
20	Identification of helminthes from edible common fish	1	25
21	Hands on training on Taxonomy key preparation	1	25
<b>ORGANIZED BY THE DEPARTMENT OF MICROBIOLOGY</b>			
1.	Estimation of extracellular thermostable enzyme of fungi	1	30
2	Biochemical and Microbiological features of dry spices	1	30
3	Microbiological testing of different water	1	30
4	Microbial synthesis and degradation of polyhydroxyalkanoates	1	30
5	Assessment of Biosafety standard of a given environment	1	30
6	Thin layer chromatography of Plant pigment	1	30
7	Protein purification and assay (Barfoed method), enzyme assay	1	30
8.	Column chromatography (Gel filtration)	1	30
9	Assay of eluted fractions, and Dialysis	1	30
10.	SDS-Polyacrylamide Gel electrophoresis	1	30
11	Demonstration of formation of biopolymer (Poly hydroxyl butyrate) by bacteria and its subsequent biodegradation in broth culture	1	30
12	Demonstration of plasmid curing by two curing agents Ethidium bromide and SDS	1	30
13	Plasmid curing in bacteria by SDS and EtBr	1	30
<b>ORGANIZED BY THE DEPARTMENT OF PHYSICS</b>			
1	Hands on training: To study the Hall effects with the help of Hall probe & to measure Hall coefficient, current density and mobility of the provided sample	1	30
2	Hands on training: Measuring the diameter of a fine wire by Laser Diffraction	1	30
3	Studying amplitude modulation and demodulation	1	30
4.	Experiment on application of Logic Gates	1	30
5.	Workshop on Mars and Mars Mission	1	30
6	Condensed Matter Physics( CMDAYS14)	1	30
7	Measuring the diameter of a fine wire by Laser Diffraction	1	30
8.	Effect of Electric field on the growth of sprout length of ground nut seeds	1	30
9	Determination of Magnetic susceptibility by Quinck's method	1	30
10.	Experiment on Logic gate	1	30
<b>ORGANIZED BY THE DEPARTMENT OF CHEMISTRY</b>			
1	One pot Multi-components organic synthesis : Biginelli Cyclo-condensation	1	30
2	Modern organic synthetic Techniques: Thioanilide synthesis by using Lawesson's Reagents	1	30
3	Bioorganic Synthesis : Synthesis of Ligands by Mannich Base reaction	1	30
4	Bioorganic Synthesis: Synthesis of Metal Complexes	1	30
5	Column Chromatography	1	30
6	Basic computational Chemistry using software	1	30
7	Soft computation: Determination of structure & properties of	1	30

Name of the programme		Number of trainings	Total number of student trainee
	Molecules		
8	Food adulteration Technique	1	30
9	FT-IR Spectroscopy	1	30
10	Workshop on Bioapplicability in Chemistry	1	30
11.	Determination of Blood cholesterol by Liebermann Burchard Method	1	30
12	Quality control measurements of the supplied tap water of College	1	30
13	Comparative estimation of saponification Value and Iodine Value for Mustard oil & Coconut oil in normal & filed condition	1	30
14	Isolation of a natural product: caffeine from tea leaves	1	30
15	Synthesis and purification of a Natural product: Coumarin	1	30
16	Solvent drying technique: preparation of anhydrous methanol, DMF & Acetonitrile	1	30
17	Photo physical studies of Biomolecules in organized media	1	30
18	Study of starch hydrolysis by Amylase: reaction thermodynamics & kinetics	1	30
<b>ORGANIZED BY THE DEPARTMENT OF BOTANY</b>			
1	Study of morphology of plants, karyotype study of chromosome and plant preservation technique	1	20
2	Isolation of total protein from medicinal important plants and study of protein profile through SDS-PAGE	1	20
3	Qualitative test for detection of Tannin from plant sample	1	20
4	DNA isolation from freeze dried plant tissue	1	20
5	Extraction of total cellular DNA isolation using modified CTAB method	1	20
6	PCR technique of isolated DNA	1	20
7	Introduction of plant tissue culture technique	1	20
8	Basic idea of Culture techniques, culture media and explants	1	20
9	Preparation of culture media and sterilization of explants	1	20
10	Agarose gel electrophoresis of isolated DNA molecules		

### Other Sensitization Programmes

- Encouraging students' writings in Journals published from the college.
- Encouraging students to take up independent projects.
- Facilitating student presentations in seminars and symposia.
- Visiting reputed institutions and laboratories.
- Visiting industries of relevance.
- Peer Meet programme arranged in the college.

**Table 3.3: Summary Table for Students' Activities**

Programme	2010	2011	2012	2013	2014	2015
Workshop	3	4	4	6	6	1
SEBCA	-	2	2	2	1	2
Seminar	3	7	3	3	3	5
'Meet Your Peers' lecture series	3	6	3	6	4	5
Student Presentations (PG)	43	45	42	48	51	53
Student Publications	2	3	3	6	3	1

**Other Initiatives:**

- ❖ Publication of MAC Journals – “MAC Journal for Basic and Applied Sciences” 2013 & 2015 [ISSN: 2247-5366], “MAC Academic Journal of Languages and Social Sciences” 2015 [ISSN: 2395-2431], and “*Journal of the Department of English*” [ISSN: 2240-8737]
- ❖ Publication of the ‘*Journal of the Department of English*’ from the PG department of English gives platform to the students for expressing and publishing analytical articles of value.
- ❖ ‘*Environews*’ is a popular periodical published in association with external links by the Department of Microbiology that encourages popular writing on environmental issues by students and teachers alike.
- ❖ SEBCA is an initiative by the PG Department of Zoology which involves students and teachers alike in generating awareness in Biodiversity and Environment among school children.

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

Most of the faculty members are involved in various research activities in different fields. A number of research projects funded by different funding agencies are ongoing or finished in last few years. Multiple numbers of students are enrolled for their Ph.D. degree under faculty members of Zoology, Chemistry, Microbiology, etc.

**Table 3.4: Research Projects materialized during last five years**

Sl No.	Year of Report	Funding Agency	Scheme	Grant amount	Project Details	Supervisor
1	2015-18	UGC	Major Research Project	Rs. 14.53,000/-	<b>Title:</b> Effect of trehalose on aggregation of fungal glycosidase <b>PI – Dr. Samudra Prasad Banik,</b> Asst. Prof. of Microbiology <b>Ref F. No. 43-69/2014 (SR) dated 23<sup>rd</sup> July, 2015</b> <b>Sanctioned Rs. 1453000/-</b>	-
2	2015-18	UGC	Major Research Project	Rs. 15,96,200/-	<b>Title:</b> Karyosystematic analysis of Indian lentils through fluorescent chromosome banding. <b>PI: Prof. T.B. Jha</b> <b>Co-PI: Dr. Partha Roy</b> <b>Sanction No. – MRP-MAJOR-BOTA-2013-</b>	Registered as Ph.D. supervisor

Sl No.	Year of Report	Funding Agency	Scheme	Grant amount	Project Details	Supervisor
					16394 <b>Status:</b> continuing	
3	2015-18	ICMR	Major Research project	Rs- 11,84,140/-	Development and testing of herbo nano compounds against experimental snake envenomation.( J t . P r o j e c t ) PI-Prof A Gomes, ( C U ) & <b>Co-PI- Dr. S. C. Dasgupta</b> Professor of Zoology <b>Sanction no:</b> 58/32/2012-BMS dt 04.03.2015 <b>Status:</b> Continuing	Registered as Ph.D. Supervisor
4	2015-17	UGC	Minor Research Project	Rs.3, 20, 000/-	Photophysical Studies of Luminescent Nano sensors Based on Fluorescence Resonance Energy Transfer (FRET)” <b>PI; Dr Subhodip Samanta</b> Assistant Professor of Chemistry <b>Sanction no:</b> PSW-054/14-15, dt. 03.02. 15 <b>Status:</b> Continuing	-
5	2015-17	UGC	Minor Research Project	Rs. 2,70,000/-	Title: Stress and Coping Mechanism Among Middle School Students. <b>PI – Dr. Aditi Basu</b> Asst. Prof. of Sociology <b>Sanction No.</b> PHW-079/14-15Dt. 02.02,15 <b>Status:</b> Continuing	-
6	2015-17	UGC	Minor Research project	RS – 4,75,000/	RAPD & its study in Gilled Edible Mushroom in West Bengal <b>PI: Dr. Ushri Roy</b> Assistant Prof of Botany <b>Sanction no:</b> No.PSW-056/14-15 (ERO) <b>Status:</b> Continuing	-
7	2015-17	UGC	Minor Research project	RS- 4,90,000/	Structure and Expression of SAMDC gene in <i>Vigna radiate</i> <b>PI: Dr. Urmi Roy</b> Assistant Prof of Botany <b>Sanction No.</b> PSW - 055/14-15 (ERO) <b>Status:</b> Continuing	-

Sl No.	Year of Report	Funding Agency	Scheme	Grant amount	Project Details	Supervisor
8	2015-17	UGC	Minor Research project	Rs-1,25,000/-	District Politics and Administration in West Bengal in Communications Perspective” (Case Study of Hooghly) <b>PI- Dr Manas Mukul Bandhyopadhyay</b> Associate Prof of Political Science <b>Sanction no:</b> F. PHW-078/14-15 (ERO) Dated 24-02-2015 <b>Status-</b> Continuing	-
9	2014-17	NTRF	Major Research Project	Rs-13,55,760/-	<b>Title:</b> Evaluation of Black tea extract on mother and pups through prenatal and postnatal development of albino rats.”) <b>PI: Dr. Subir C. Dasgupta,</b> Prof. of Zoology <b>Sanction no:</b> 17 (305)/2013/4423 Dt.11.03.14 <b>Status-</b> Continuing	Registered At Calcutta University Student name: Avijit Dey
10	2014-16	“UGC	Minor Research Project	Rs.4,50,000/-	Synthesis, Structural.....Azido Complexes” <b>PI: Sri Sanju Das</b> Assistant professor of Chemistry <b>Sanction no:</b> PSW-197/13-14, dt. 1.08. 14 <b>Status;</b> continuing	-
11	2014-16	UGC	Minor Research Project	Rs-4,50,000/-	‘Jitter reduction and design dependent dynamics of carrier/ clock recovery circuit’ PSW-058/13-14 dated 18 <sup>th</sup> March, 2014 <b>PI: Dr Madhusudan Ghosh</b> Assistant Professor of Physics <b>Sanction no;</b> PSW-058/13-14 dated 18 <sup>th</sup> March, 2014 <b>Status :</b> Continuing	-
12	2014-16	UGC	Minor Research Project	Rs-2,00,000/-	Monte-Carlo studies of atoms, <b>PI: Debaprem Bhattacharya</b> Assistant Professor of Physics <b>Sanction no:-</b> PSW-057/13-14 dated 18 <sup>th</sup> March, 2014	-

Sl No.	Year of Report	Funding Agency	Scheme	Grant amount	Project Details	Supervisor
					Status Continuing	
13	2013-15	N.S.F., U.S.A.	Major Collaborative Research Project	US \$ 3,000,000/-	<b>Title:</b> Planetary Biodiversity Inventory Grant. <b>Co-PI (India):Dr. Pradip Kumar Kar,</b> Asstt. Professor of Zoology PI (USA) – Prof. Janine Caira Fund managed by Prof. Caira Sanction no.P506/10/1994, and 206/09/H026, National Science Foundation, USA, <b>Status:</b> Continuing	-
14	2013-15	UGC	Minor Research Project	Rs-1,92,000/-	<b>Title-</b> Marine viruses— major players in the plankton ecosystem: Mathematical Study, <b>Sanction No. F. PSW-37/12-13, dt. 5.2.13</b> <b>Status:</b> Continuing	-
15	2013-18	M.O.U. with University of Connecticut	Collaborative Research	As per project funding	M.O.U. signed <b>between Dr. Pradip Kumar Kar (WBES) and Provost</b> of University of Connecticut. <b>Status:</b> continuing	-
16	2013-15	UGC	Minor Research project	Rs.4,48,000/-	“Polynuclear Metal Complexes.... Physicochemical studies” PI : <b>Dr Ambarish Ray</b> Assistant professor of	-
17	2012-15	DST	SERB (Fast Track)	Rs.19,70,000/-	Title “Development of heterocyclic ... ..silicon based OLED” PI- <b>Dr. Arijit Chakraborty</b> Sanction no: SR/FT/CS-116/2010 dt. 07.06.2012 Status-Continuing	-
18	2012-13	Planning Commission of India	Minor Research Project	Rs. 4,96 000/-	Title The Emerging Scenario of Agri-business in India PI: Dr. Samit Kar, Assoc Prof. Sociology Sanc No. Status: Completed	-
19	2012-13	UGC	Minor Research Project	Rs. 1,66,000/-	Title: Effect of Virus infection on marine plankton ecosystem: Mathematical study PI: <b>Prof. Nanda Das,</b> Asst. Prof. of Mathematics	-



Sl No.	Year of Report	Funding Agency	Scheme	Grant amount	Project Details	Supervisor
					Sanction no Status: Continuing	
20	2011-12	UGC	Minor research Project	Rs.1,34,550/-	Title: 'Nineteenth Century British Labour Movement' PI: <b>Dr. Rongili Biswas</b> , Asst. Prof.; Economics Spl. Political economy, Public Economics	-
21	2011-14	UGC	Individual Research Fellowship for NET qualified candidate	Rs.7,35,000/-	<b>Title-</b> Photoperiodic effect and temperature impacts in migratory water birds at some tropical wetlands of south Bengal, India <b>Supervisor: Dr. Tarak Nath Khan</b> , Associate Prof. of Zoology <b>Research fellow:</b> Prantik Hazra <b>Sanction No:</b> F11-04/2010(SA-I), dt. 23.08.2011 <b>Status-</b> Ongoing	Ph.D. Awarded Student Name: Dr Prantik Hazra ( Now Assistant Professor , Rajarhat Govt degree College)
22	2011-13	UGC	Minor Research-h project	Rs. 1,58,000/-	To Study the Genetic Diversity of local Castor Plant ( <i>Ricinus communis</i> L) varieties of Kolkata through DNA and Protein markers. <b>I- Dr Rajarshi Ghosh</b> Assistant Prof. in Botany Sanction no: PSW-042/11-12 DT 3/8/11 <b>Status:</b> Completed	-
23	2011-13	UGC	Minor Research project	Rs. 1,77,000/-	A study on nanosized CMR manganites <b>PI-Dr S. Chattopadhyay</b> Sanction no: (PSW-130/10-11 dated 01.11.2011). Status : Completed	-
24	2011-13	ICSSR	Major Research Project	Rs. 6,00,000/-	Negotiating Globalisation: The World of Autoriksha Puller in Kolkata, Co-PI: <b>Mr. Alik Das</b> RP02/0092/2008/RP Status: completed	-
25	2011-13	UGC	Minor Research Project	Rs 1,92,000/-	Title: A comparison of the ameliorating effect of natural antioxidants from turmeric, grapes and tea against vanadium induced testicular toxicity PI: <b>Dr. Rituparna</b>	-

Sl No.	Year of Report	Funding Agency	Scheme	Grant amount	Project Details	Supervisor
					<b>Ghosh</b> (Bhairab Ganguly College) Co-PI: <b>Dr. Rini Roy</b> Sanction No. F. PSW-196/11-12 Status : completed	
26	2011-12	UGC	Minor Research Project	Rs.1,38,000/-	Title: To Study genetic diversity of local varieties of Castor plant ( <i>Ricinuscommunis L.</i> ) Through molecular markers PI: <b>Dr. Rajarshi Roy</b> , Assistant Prof. of Botany. Sanc No: PSW-042/11-12] Status: completed	-
27	2011-12	Ministry of Culture, Govt. of India	Minor Research Project	Rs. 2,00,000/-	Title: Implementing Rabindranath Tagore's words to deeds PI: <b>Dr. Samit Kar</b> , Assoc Prof. Sociology Sanc No. Status: Completed	-
28	2011-12	DST		Rs. 6,75,000/-	Title: Relativistic study of the excited/ionized states of heavy atoms using coupled cluster based linear response theory. PI: <b>Dr. Uttam Sinha Mahapatra</b> DST Sanction letter No. SR/S1/PC-61/2009-II(G) dated 19.07.2011)	-
29	2011-12	UGC	Minor Research Project	Rs 1,77,000/-	A study on nanosized CMR manganites" PI: <b>Dr. Sanjay Chattopadhyay</b> Sanction No. PSW-130/10-11 dated 01.11.2011	-
30	2011-12	Govt. of India National Library, Kolkata	Minor Research Project	Rs. 25, 000/-	Rendering of Khurshid-i-JahanNuma, a historiographical encyclopaedia into English PI: <b>Dr. Iftekhar Ahmed</b> Sanction No./RB/APMSS/2011-12	-
31	2011-12	UGC	Minor Research Project	Rs.1,02,000/-	Mangalkabya: Adhunikat a o Punornirman PI: <b>Dr. Sandip Kumar Mondal</b> Sanction No. PHW-	-

Sl No.	Year of Report	Funding Agency	Scheme	Grant amount	Project Details	Supervisor
					233/11-12 (ERO) dt. 25.01.12	
32	2010-13	UGC	Major Research Project	Rs. 12,29,867/-	<b>Title</b> -Search for Bioactive components from shed snake skin extract <b>PI- Dr. Subir Chandra Dasgupta</b> Professor of Zoology <b>Sanction No:</b> F No-38-130/2009(SR) Dated 19.12.2009 <b>Status- Completed ( Ph.D.)</b>	Ph.D Awarded Student Name: Dr. Sanghamit a Mukherjee ( Now DBT –RA at IICB, Kolkata)
33	2010-13	CSIR	Individual Research Fellowship for NET qualified candidate	Rs.8,77,600/-	<b>Title</b> - Diversity population trends and species assemblage of water birds in south-west Bengal, India <b>Supervisor: Dr. Tarak Nath Khan</b> , Associate Prof. of Zoology <b>Research fellow:</b> Dr. Anirban Sinha <b>Sanction No:</b> 08462/2008/EMRI, dt. 01.06.2010 <b>Status- Completed( Ph.D)</b>	Ph.D. Awarded Student name: Dr Anirban Sinha ( Now part Time teacher at Surendrana th College)
34	2010-11	ASCR- INSA (DST) joint project	Major Collaborative Research Project	Rs. 20,00,000/-	<b>Title:</b> Diversity, distribution and phylogenetic relationships of metazoan parasites (endohelminths) of fresh water and marine fish in India. <b>PI (India)-Dr. Pradip Kumar Kar</b> , Asstt. Professor of Zoology <b>Sanction no.:</b> 1A/ASCR/F-4/2008-09-3661 Dated: 28.01.2009, ASCR projects 524/08/0885 ASCR-INSA Bilateral Exchange Prog. <b>Status:</b> Continuing	Ph.D. awarded Student name: Dr Anirban Ash (Now DBT RA IICB)
35	2010-11	UGC	Minor research Project	Rs.15,0000/-	<b>Title:</b> Conrad-Cultural Crisis in his Fiction Bishnu De <b>PI- Prof. D.P.Banerjee</b> , Associate Prof. of English Sanction no: F.PHW076/09-10 (ERO) dated 7.09.2009 Status: completed	-

Sl No.	Year of Report	Funding Agency	Scheme	Grant amount	Project Details	Supervisor
36	2010-11	UGC	Minor research Project	Rs.1,08750/-	<b>Title:</b> Jayanta Mahapatra <b>PI- Prof. N.B.Routh,</b> Associate Prof. of English Sanction no Status: Completed	-
37	2010-11	UGC	Translation Project under School of Languages	Rs. 45,000/-	Project- Translation of selected works of Bishnu Dey and Jayanta Mahapatra Sanction no Status: Completed	-
38	2010-2011	UGC	Minor Research Project	Rs. 1,77,000/-	Title-“Scaffold Decoration of Dihydropyrimidones Especially with Carbohydrate moieties and Study of their Effect on Ca <sup>2+</sup> -ATPase activity” <b>PI- Dr. Arijit Chakraborty,</b> Assistant Prof. of Chemistry. PSW-053/10-11, dt. 20.10.10 Status-Completed	-
39	2010-11		Minor Research Project	Rs. 79,484/-	Title: Cyanometalate Incorporated Supramolecular Network : Design, Synthesis and Physicochemical Studies <b>PI- Dr. Ambarish Ray,</b> Assistant Prof. of Chemistry. PSW-048/07-08, dt. 21.02.08 Status-Completed	-
40	2010-11	UGC/ CPE	Short Term	Rs.10,000/-	Title: Women and group theatre in Kolkata <b>PI: Nandini Saila Dasgupta</b> Sanction No UGC/CPE/1058/4 Status: Completed	-
41	2010-11	UGC	Minor Research Project	Rs 1,65,000/-	Title : “Isolation, partial purification...Cellulolytic enzymes...filamentous fungus” <b>PI : Dr. Samudra ProsadBanik,</b> Asst. Prof of Microbiology Sanction No. F.PSW-054/10-11 Status: Completed	-

Sl No.	Year of Report	Funding Agency	Scheme	Grant amount	Project Details	Supervisor
42	2010-12	UGC	Minor Research Project	Rs 1,53,000/-	Title: "Synthesis of alkaline 103nrol103atise by free-living Diazotrophs", P.I.: <b>Dr. Soma Pal Saha</b> , Asst. Prof of Microbiology Sanction no. F. PSW-055/10-11. Status: Completed	-
43	2010-11	UGC	Minor Research Project	Rs. 1,42,500/-	Review of the Old Age Care System and Possible Remedies PI: <b>Dr. Madhumita Sen</b> Sanction No PHW/075/09-10 (ERO) dt. 7/09/09 Status: completed	-
44	2010-11	NSF, USA	NSF	US \$589,539	Comparing Climate Change Policy Networks (COMPON): Effect of Advocacy Networks and Participation on Climate Change Policy Formation PI: <b>Dr. Debaprasad Chatterjee</b> Country Co-Investigator, India Chapter, Country Case Leader – Sony Pellissery, Institute of Rural Management.NSF Grant No. 0827006	-
45	2010-12	UGC	Minor Research Project	Rs. 71,000/-	"Administering Development (Through Democratic Decentralization) at the District level in West Bengal: A Study of Hooghly 10-3-2012 to 19-10-2012 PI: <b>Dr Manas Mukul Bandopadhyay</b> Sanction no: F.PHW-195/11-12(ERO), Status –Completed	-
46	2010-11	UGC-CPE	Small project	Rs.20,000/-	Gender Roles and Stress-differences: A Study of Professional couples PI: <b>Ms. Aditi Basu</b> Sanction no: UGC/CPE/1058/5 Dt. 22.03.2011 Status: completed	-

Sl No.	Year of Report	Funding Agency	Scheme	Grant amount	Project Details	Supervisor
47	2010-11	UGC-CPE	Small project	Rs.30,000	Exploring Social-Ethical Context of Indian Medical Science PI: Prof. <b>Arpita Sengupta</b> Prof. Ananya Roychowdhury Sanction no	-
48	2010-11	UGC-CPE	Small project	Rs.10,000/-	Employment Prospect and economics status of women workers in unorganized sector <b>Prof. Nandita Basak</b> <b>Prof. Barnana GuhaThakurta</b>	-
49	2010-11	UGC-CPE	Small project	Rs.10,000/-	Concept of war and its socio-economic political impaction Political Philosophy Prof. <b>Sanghamitra Dasgupta</b> Sanction No: (UGC/CPE/1058/2).	-
50	2010-11	UGC-CPE	Small project	Rs.10,000/-	An analytical survey of female workers in shopping malls of Kolkata <b>Prof. Shampa Dutta Gupta</b>	-
51	2010-11	UGC-CPE	Small project	Rs.10,000/-	An analytical survey of management values in West Bengal ethical and non-ethical issues <b>Prof. Nandita Bagchi</b>	-
52	2010-11	UGC-CPE	Small project	Rs.25,000/-	Daughters Who overstepped the Threshold : Women in the Terrorist Movement of Bengal (1907-32 ) PI: <b>Sucharita Ghosh Sengupta</b> Sanction No. UGC/CPE/1057/4 Status: Completed	-
53	2010-11	UGC-CPE	Small project	Rs.10,000/-	Women & Group theatre in Kolkata PI: Prof. <b>Nandini Saila Dasgupta</b> Sanction No.UGC/CPE/1058/4 Status: Completed	-
54	2010-11	UGC	Minor Research Project	Rs-45000/-	Constructivism and Realism: Towards a fusion ontology PI: <b>Dr. Madhuchhanda Bhattacharyya</b> Sanction No: UGC(ERO)-PHW/008/0708	-

Sl No.	Year of Report	Funding Agency	Scheme	Grant amount	Project Details	Supervisor
					dt.21.02.08 Completed in 2011-12	
55	2009-10	UGC	Minor Research Project	Rs.5,00,000/-	Title: PI: <b>Dr. S.M. AzharAlam</b> Sanction no. F.30-66 (H)/2009 (SA- 11) dt. 03/09/09	-
56	2009-10	UGC	Minor Research Project	Rs.1,37,000/-	PI: <b>Dr. Sanjib Kumar Das</b> Assistant professor of Zoology Sanction No. F.PSW-067/09-10 (ERO) dt. 8/10/09	-
57	2009-11	UGC	Minor Research Project	Rs. 150000/-	Narrative strategies and metatextuality of Bengal district gazetteers PI: <b>Parimal Bhattacharya</b> , Dept. of English Sanction No. F.PHW-012/09-10 (ERO) dated 7/09/2009 Status: completed	-
58	2009-2011	DST	Major research project	Rs-6,70,000/-	Relativistic study of the excited/ionized states of heavy atoms using coupled cluster based linear response theory PI: <b>Dr U Sinha Mahapatra</b> SR/S1/PC-61/2009-II(G) dated 19.07.2011 Status : completed	-
59	2009-2012	UGC	Minor Research Project	Rs.1,50,000/-	Title- The effect of phenol and cadmium on oxidative stress parameter as a function of ovarialsteroidogenesis in common carp <i>Ciprinuscarpio</i> PI: <b>Dr. Sumana Das</b> , Asst. Prof. of Zoology Sanction No:PSW-068/09-10, Dt. 08.10.2009 Status- Completed	N-
60	2009-2012	UGC	Major Research Project	Rs.9,31,800/-	Title- Reproductive biology of Piscine ectoparasite <i>Argulus</i> sp. With special emphasis on vital genesis Co-PI: <b>Dr. Subha Manna</b> , Associate Prof. of Zoology Sanction No: F33-333-207-SR, Dt. 10.03.2008	Ph. D. Awarded Student name A Banerjee

Sl No.	Year of Report	Funding Agency	Scheme	Grant amount	Project Details	Supervisor
					Status- Completed	
61	2008-10	UGC	Minor Research project	Rs. 79484/-	Cyanometalate Incorporated..... Physicochemical Studies” PI : <b>Dr Ambarish Ray</b> Assistant professor in Chemistry Sanction no: PSW-048/07-08, dt. 21.02. 08 Status – Completed	-
62	2008-12	UGC	Major Research Project	Rs. 9,34,300/-	Title-Diversity, Habitat relationships and Conservation of Migratory Birds in the Important Wetlands of South Bengal PI- <b>Dr. Tarak Nath Khan</b> , Associate Prof. of Zoology Sanction No:F.No.33-338/2007 (SR), dt 12. 03. 2008 Status- Completed	-
63	2008-10	CSIR	Major Research Project	Rs. 26,00,000/- (Approx.)	Title: Bio prospection and efficacy testing – a Histochemical, biochemical and Ultra structural study depicting the anthelmintic effect of some putative local medicinal plants used by the indigenous tribal population. PI – <b>Dr. Pradip Kumar Kar</b> , Asstt. Professor of Zoology Sanction No. 37(1330)/08/EMR-II Status: Completed	-
64	2008-14	NSF, USA	Major Research Project	USD720,000 (Worked on expenses Reimbursement basis for Fieldwork etc.)	Title: 'Comparing Climate Change Policy Networks (COMPON): Effect of Advocacy Networks and Participation on Climate Change Policy Formation' Country Co-Investigator (India) : <b>Dr. Debaprashad Chatterjee</b> (2007 to 2012.)	-



Sl No.	Year of Report	Funding Agency	Scheme	Grant amount	Project Details	Supervisor
65	2008-11	DST, Min. Of Foreign Affairs, Italy	Major Collaborative Research Project	Rs. 20,00,000/- (Approx.)	Title: Neuro-nanotechnology – quantum dot applications in invertebrate models. PI (India): <b>Dr. Pradip Kumar Kar</b> , Asstt. Professor of Zoology Sanction No. – INT/ITALY/HFB-3/35/2008-2010 Status: Completed	-
66	2007-10		Major Research Project	Rs. 7,33,000/-	Title- Studies on the antineoplastic compounds (peptides and proteins) of the Indian Toad ( <i>Bufo melanostictus</i> ) skin extract Co-PI: <b>Dr. Subir Chandra Dasgupta</b> , Professor of Zoology Sanction No: F 32-530/2006(SR) dt. 08.03.07 Status- Completed	Ph.D. awarded Student name: <b>Dr Biplab Giri</b> ( Now Assistant Professor of Physiology, WBSU, Barasat)
67	2006-2010	ICMR	Major Research Project	Rs. 5,86,000/-	Title- Development of scorpion venom antagonist from Indian medicinal plant Co-PI: <b>Dr. Subir Chandra Dasgupta</b> , Professor of Zoology Sanction No: 58/7/2002/BMS, dt. 20.07.2006 Status- Completed	Ph.D. awarded Student name: <b>Dr Roshnara Misra</b> ( Now Assistant Professor of Physiology, Calcutta University)

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

Many workshops, training programmes seminars and other sensitization programmes are organized by the institution with focus on capacity building in terms of research and imbining research culture among the students and faculties. Table 3.5: contains the details of Sensitization programmes.

**Table 3.5: Details of Sensitization programmes**

	<b>Seminars/ Conferences/ Workshops organized</b>	<b>Name of the Seminars/ Conference/ Workshops organized</b>	<b>Date, Year</b>	<b>National/ International</b>	<b>Source of funding</b>
1.	Workshop organized by the Dept. of English	Poetry reading and writing William Radice, Oxford University	6 <sup>th</sup> December 2010	Invited International session	College
2.	Seminar organized by the Department of Political Science along with the Dept. of Islamic History and Culture	Administration, Politics and Society in Medieval India 1206-1707.	12 <sup>th</sup> January 2010	National Seminar	UGC
3.	Seminar organized by the Department of Political Science, Philosophy and History	Visibility/Invisibility: An Enquiry into the conditions of women in India	2011	National Seminar	UGC
4.	Seminar organized by the Department of Political Science along with the Dept. of Economics	Maulana Abul Kalam Azad, (A special seminar organized by the department to celebrate the one fiftieth birth anniversary of Swami Vivekananda.)	2012	National Seminar	UGC
5.	Workshop organized by the Dept. of Zoology	Understanding Cladistics	4 <sup>th</sup> January, 2010	National Seminar	IGNOU
6.	Workshop organized by the Dept. of Zoology	Understanding biodiversity: Assessment, Analysis and Conservation	25 <sup>th</sup> – 27 <sup>th</sup> February, 2011	National Seminar	UGC
7.	Workshop organized by the Dept. of Zoology	Hands on training on Techniques to Explore the Frontiers of Modern Biological Sciences	9 <sup>th</sup> - 10 <sup>th</sup> Nov., 2011	College Level	DBT
8.	Workshop organized by the Dept. of Zoology	Hands on training on Tiger Census and estimation of thyroid hormone	31 <sup>st</sup> August, 2012	College Level	DBT
9.	Workshop organized by the Dept. of Zoology	Hands on training on Assay of Nuclear Aberration in Buccal Epithelium and Camera Trapping	7 <sup>th</sup> -8 <sup>th</sup> October, 2013	College Level	DBT
10.	Workshop organized by the Dept. of Zoology	Sewage water recycling through aquaculture	24 <sup>th</sup> July 2013	College Level	DBT
11.	Workshop organized by the Dept. of Zoology	Hands on training on Preparation of Fish meal	12 <sup>th</sup> October 2013	College Level	DBT
12.	Workshop organized by the Dept. of Zoology	Hands on training on induced breeding of Fish at CIFE	15 <sup>th</sup> October 2013	College Level	DBT
13.	Workshop organized by the Dept. of Zoology	Demonstration of recent techniques on poultry farming	15 <sup>th</sup> May 2014	College Level	DBT

	Seminars/ Conferences/ Workshops organized	Name of the Seminars/ Conference/ Workshops organized	Date, Year	National/ International	Source of funding
14.	Workshop organized by the Dept. of Zoology	Identification of different mutant varieties of <i>Drosophila</i>	25 <sup>th</sup> July 2014	College Level	DBT
15.	Workshop organized by the Dept. of Zoology	Identification of sex comb, food preparation	25 <sup>th</sup> July 2014	College Level	DBT
16.	Workshop organized by the Dept. of Zoology	Hands on training on culture of fruit fly <i>Drosophila</i>	25 <sup>th</sup> July 2014	College Level	DBT
17.	Workshop organized by the Dept. of Zoology	Identification of common Helminthes from edible fish	25 <sup>th</sup> April 2015	College Level	DBT
18.	Workshop organized by the Dept. of Zoology	Hands on training on Taxonomy	4 <sup>th</sup> may 2015	College Level	DBT
19.	Workshop organized by the Dept. of Microbiology	Protein purification	29 <sup>th</sup> – 31 <sup>st</sup> October, 2011	College Level	DBT
20.	Workshop organized by the Dept. of Microbiology	Plasmid curing	30 <sup>th</sup> Nov-5 <sup>th</sup> December, 2012	College Level	DBT
21.	Workshop organized by the Dept. of Microbiology	Microbial synthesis and degradation of polyhydroxyalkanoate biopolymer	30 <sup>th</sup> November -4 <sup>th</sup> December, 2012	College Level	DBT
22.	Workshop organized by the Dept. of Microbiology	Separation of pigments from plants by thin layer chromatography and determination of their absorption spectra	22 <sup>nd</sup> and 23 <sup>rd</sup> October, 2013	College Level	DBT
23.	Workshop organized by the Dept. of Microbiology	Microbial synthesis and degradation of PHA biopolymer for 3 <sup>rd</sup> year students- Phase 1	30 <sup>th</sup> October - 2 <sup>nd</sup> November 2012	College Level	DBT
24.	Workshop organized by the Dept. of Microbiology	Microbial synthesis and degradation of PHA biopolymer for 3 <sup>rd</sup> year students- Phase 2	19 Jan 2013 – 21 Jan 2013	College Level	DBT
25.	Workshop organized by the Dept. of Microbiology	Hands on training on isolation of microorganisms from air and water for 2 <sup>nd</sup> Year students	Oct 2012- January 2013	College Level	DBT
26.	Workshop organized by the Dept. of Microbiology	Study of bacterial isolates from air and water of major government hospitals in Kolkata 2 <sup>nd</sup> Year students- Group Project	Oct 2012- January 2013	College Level	DBT
27.	Workshop organized by the Dept. of Microbiology	Microbiological assessment of milk quality of different local brands in Kolkata- Group project	Oct 2012- January 2013	College Level	DBT

	<b>Seminars/ Conferences/ Workshops organized</b>	<b>Name of the Seminars/ Conference/ Workshops organized</b>	<b>Date, Year</b>	<b>National/ International</b>	<b>Source of funding</b>
28.	Workshop organized by the Dept. of Microbiology	Physico-biochemical and Microbiological analyses of dried spices of a local market (Jan-Bazaar, Kolkata) for 1 <sup>st</sup> Year students	24 Nov 2013 to 3 Dec 2013	College Level	DBT
29.	Workshop organized by the Dept. of Microbiology	Analysis of microbial load of fresh vegetables and isolation of pesticide resistant bacteria procured from local market	15 Nov 2012 – 18 Dec 2012	College Level	DBT
30.	Workshop organized by the Dept. of Microbiology	Isolation of extracellular amylases and phosphatases from soil borne bacteria and fungi.	Continuing project for 3 <sup>rd</sup> Year Students 2012,2013,2014 sessions	College Level	DBT
31.	Workshop organized by the Dept. of Microbiology	Techniques for screening of antimicrobial potential of natural products for 2 <sup>nd</sup> Year interdisciplinary	31 July 2014 to 3 Aug 2014	College Level	DBT
32.	Workshop organized by the Dept. of Microbiology	Antimicrobial activity of natural products against milkborne microbes”	January 2015	College Level	DBT
33.	Workshop organized by the Dept. of Microbiology	Hands on training on Kitchen Microbes	January 2015	College Level	DBT
34.	Workshop organized by the Dept. of Chemistry	Structure elucidation by FT-IR Spectroscopy	12 <sup>th</sup> June 2013 28 <sup>th</sup> August 2013	College Level	DBT
35.	Workshop organized by the Dept. of Chemistry	Food Adulteration	21 <sup>st</sup> January 2013	College Level	DBT
36.	Workshop organized by the Dept. of Chemistry	Bio applicability in Chemistry	4 <sup>th</sup> Jan-10 <sup>th</sup> Jan, 2014	College Level	DBT
37.	Workshop organized by the Dept. of Chemistry	One pot Multi-components organic synthesis : Biginelli Cyclocondensation	31 <sup>st</sup> October 2011	College Level	DBT
38.	Workshop organized by the Dept. of Chemistry	Hands on training: Biorganic Synthesis : Synthesis of Ligands by Mannich Base reaction	1 <sup>st</sup> November 2011	College Level	DBT
39.	Workshop organized by the Dept. of Chemistry	Analytical Techniques by Simple Computer Applications	8 <sup>th</sup> November 2014	College Level	DBT
40.	Workshop organized by the Dept. of Chemistry	Soft Computation: Determination of Structure & Properties of Molecules	8 <sup>th</sup> November 2014	College Level	DBT

	<b>Seminars/ Conferences/ Workshops organized</b>	<b>Name of the Seminars/ Conference/ Workshops organized</b>	<b>Date, Year</b>	<b>National/ International</b>	<b>Source of funding</b>
41.	Workshop organized by the Dept. of Chemistry	Hands on training: Bioorganic Synthesis: Synthesis of Metal Complexes	30 <sup>th</sup> October 2011	College Level	DBT
42.	Workshop organized by the Dept. of Chemistry	Identification & Structural Correlation of Coumarin and Caffeine through FTIR	7 <sup>th</sup> January 2014	College Level	DBT
43.	Workshop organized by the Dept. of Chemistry	Solvent Drying Technique: Preparation of Anhydrous Methanol, DMF & Acetonitrile	6 <sup>th</sup> January 2014	College Level	DBT
44.	Workshop organized by the Dept. of Chemistry	Synthesis & purification of A Natural Product: Coumarin	6 <sup>th</sup> January 2014	College Level	DBT
45.	Workshop organized by the Dept. of Chemistry	Isolation of A Natural Product: Caffeine from Tea-Leaves	6 <sup>th</sup> January 2014	College Level	DBT
46.	Workshop organized by the Dept. of Chemistry	Determination of Blood Cholesterol by Liebermann Burchard Method	5 <sup>th</sup> January 2014	College Level	DBT
47.	Workshop organized by the Dept. of Chemistry	Comparative Estimation of Saponification Value & Iodine Value for Mustard Oil & Coconut Oil in Normal & Fried Condition	5 <sup>th</sup> January 2014	College Level	DBT
48.	Workshop organized by the Dept. of Chemistry	Quality Control Measurements of the Supplied Tap Water of Maulana Azad College,	5 <sup>th</sup> January 2014	College Level	DBT
49.	Workshop organized by the Dept. of Chemistry	Study of starch hydrolysis by amylase : Reaction thermodynamics & kinetics	5 <sup>th</sup> January 2014	College Level	DBT
50.	Workshop organized by the Dept. of Chemistry	Detection of Common Adulterants Present in Various Consumable articles	4 <sup>th</sup> January 2014	College Level	DBT
51.	Workshop organized by the Dept. of Chemistry	Study of starch hydrolysis by amylase :Effect of catalyst & inhibitors	9 <sup>th</sup> January 2014	College Level	DBT
52.	Workshop organized by the Dept. of Physics	Workshop on Experimental Physics	31 <sup>st</sup> Oct- 2 <sup>nd</sup> Nov., 2011	College Level	DBT
53.	Workshop organized by the Dept. of Physics	Studying amplitude modulation and demodulation	31.10.2011- 02.11.2011	College Level	DBT
54.	Workshop organized by the Dept. of Physics	Measuring the diameter of a fine wire by Laser Diffraction	2012	College Level	DBT

	<b>Seminars/ Conferences/ Workshops organized</b>	<b>Name of the Seminars/ Conference/ Workshops organized</b>	<b>Date, Year</b>	<b>National/ International</b>	<b>Source of funding</b>
55.	Workshop organized by the Dept. of Physics	To study the Hall effects with the help of Hall probe and to measure Hall coefficient, current density and mobility of the provided sample	2012	College Level	DBT
56.	Workshop organized by the Dept. of Physics	Determination of magnetic susceptibility by Quincke's method	2013	College Level	DBT
57.	Workshop organized by the Dept. of Physics	Effect of Electrical field on the growth of sprout length of ground nut seeds.	2013	College Level	DBT
58.	Workshop organized by the Dept. of Physics	Equivalence principle in modern physics	2013	College Level	DBT
59.	Workshop organized by the Dept. of Physics	A Fast Acquisition Data Clock Recovery Circuit	2013	College Level	DBT
60.	Workshop organized by the Dept. of Physics	Techniques for screening of antimicrobial potential of natural products	2013	College Level	DBT
61.	Workshop organized by the Dept. of Physics	Concept of negative absolute temperature in thermodynamics	2013	College Level	DBT
62.	Workshop organized by the Dept. of Botany	Interdisciplinary Hands-on training programme. On Plant tissue culture	2012	College Level	DBT
63.	Workshop organized by the Dept. of Botany	Plant DNA isolation	2012	College Level	DBT
64.	Workshop organized by the Dept. of Botany	Agarose gel electrophoresis of isolated DNA.	2012	College Level	DBT
65.	Workshop organized by the Dept. of Botany	Extraction of total cellular DNA isolation using modified CTAB method	2012	College Level	DBT
66.	Workshop organized by the Dept. of Botany	Identification of Medicinal important plants and their importance	2013	College Level	DBT
67.	Workshop organized by the Dept. of Botany	Demonstration of DNA isolation procedure from freeze dried plant tissue and PCR techniques	2013	College Level	DBT
68.	Workshop organized by the Dept. of Botany	Seed Viability Test & Comparison of respiratory rates of different seed samples from proteinacious, fatty and starchy seeds	2013	National College Level	DBT
69.	Workshop organized by the Dept. of Botany	Qualitative test for detection of Tannin from plant sample	2013	College Level	DBT
70.	Workshop organized by the Dept. of Botany	Isolation of total protein from medicinal important plants and study of protein profile through SDS-PAGE	2013	College Level	DBT

	Seminars/ Conferences/ Workshops organized	Name of the Seminars/ Conference/ Workshops organized	Date, Year	National/ International	Source of funding
71.	Workshop organized by the Dept. of Botany	. Visit to laboratories and training programme at Falta Campus Bose Institute with Botany (Hons) students for Organic farming and its benefits & seedling morphology study	9 <sup>th</sup> January 2015	College Level	DBT
72.	Workshop organized by the Dept. of Botany	Visit to laboratories and training programme at Falta Campus Bose Institute with Botany (Hons) students for Mushroom culture, storage procedure and marketing, vermicomposting and its use, Apiculture & ornamental fish maintenance	9 <sup>th</sup> January 2015	College Level	DBT
73.	Workshop organized by the Dept. of Botany	Visit to Agrihorticulture Society of India for Hands on training on Morphological survey of shedy plants, Xenogarden survey, Cloning and vegetative propagation study	4 <sup>th</sup> February 2015	College Level	DBT
74.	Workshop organized by the Dept. of Botany	Visit to Agrihorticulture Society of India for Hands on training on grafting study of plants, Study of Palms, Ornamental herbs and Gymnosperms	4 <sup>th</sup> February 2015	College Level	DBT
75.	Seminar organized by the Dept. of Chemistry	Spectroscopy: Its application in Biological sciences” in collaboration with Indian Association for Cultivation of Science, Jadavpur, Kolkata	2011	College Level	UGC
76.	Seminar organized by the Dept. of Chemistry	“The Journey of Chemistry Through Ages – Yesterday Today Tomorrow”	2012	National	UGC
77.	Workshop organized by the Dept. of English	Presentation of <i>Red Oleander</i> (Tagore Drama) by the students and teachers of English.	2013	National	UGC
78.	Workshop organized by the Dept. of English	Translation workshop was organized on Bisnu Dey’s poetry. His poems were translated into six languages and subsequently published. Urdu, Arabic, Persian, Sanskrit, Hindi and English were languages of translation.	2010	National	UGC

**Other programmes aimed at quality enhancement in research activities:**

Sl. No.	Sensitization Programmes arranged in college	Year	Project	Status
1.	Establishment of Language School and take up translation projects encompassing all languages taught in the college	2009-10	Two projects: 1. Translation of selected works of Jnanpeeth awardee Bishnu De from Bengali	Completed 1. Bhore Motir Kanpasha Translation from Oriya Poet J.K.Mahapatra’s

Sl. No.	Sensitization Programmes arranged in college	Year	Project	Status
			2. Translation of selected works of Jnanpeeth awardee Jayanta Kr. Mahapatra from Oriya to English	original work " <i>Bhor Motira Kanpasha</i> " ISBN:978-8182-1108-892 2. ISBN of Bishnu De work:- ISSN 2249-8737
2.	Establishment of School of Socio-Economic Research	2010-11	Seven Projects taken up under UGC-CPE	Completed Publication: Publications: Wanderings on Women, Work, Well Being and War Ed. Prof.Santanu Ghosh ISBN:987-81-928246-2-8
3.	Establishment of SEBCA by the Department of Zoology	2010-11	Biodiversity and environment sensitization programme	Continuing: Students are asked to interact with school children in generating interest in these areas.
4.	Establishment of CICARS	2011-12	A central instrumentation facility aimed at scientific research	Established, benefits scholars and students of all departments.
5.	Organizing CSWM regional chapter: Capacity building for women managers in higher education	2009-10 And 2012-13	A capacity building initiative by the UGC, implemented by us.	40 women were participated
6.	Journal of English	2010	Launched as a platform for analytical expression for teachers and students alike.	Annual; ISSN-2240-8737 3 issues published till date
7.	Journal of Science	2013	Launched as a platform for publication of student research where teachers may also contribute.	MAC journal of Basic and Applied Sciences; Annual: ISSN-2347 5366 Vol-1; November 2013
8.	Subscribing to JSTOR	Since 2010-11	E-inventory	Benefits teachers, students and scholars.
9.	Establishment of NET/SET Coaching Centre for underprivileged students.	Since 2009-10	Coaching available for English; Urdu and Zoology	A UGC merged scheme proposed to be continued.



Sl. No.	Sensitization Programmes arranged in college	Year	Project	Status
10.	DBT Hands on training programmes,	Since 2009-10 Continuing till date	Apart from taking up projects, visiting National Laboratories, Science Exhibitions, presenting posters and scientific papers by the students are part of the scheme.	Programme monitored by DBT and renewed year on year basis on the basis of Peer reports.

Table 3.6: Other sensitization programme attended by teachers in external institutions

Departments	Year	Name of faculty	Awareness generation programme / Exhibitions / Seminars / Training programme attended
Zoology	2010	Dr. S. Chakraborty	EMBO Global Exchange Lecture Course on “Molecular and Evolutionary Genetics of Malaria” held at the National Institute of Malaria Research (NIMR), New Delhi in collaboration with NIMR and European Molecular Biology
	2011	Dr. S. Manna Dr. S. Chakraborty	1 <sup>st</sup> National Workshop for college teachers on Application on Flow cytometry, Cell sorting & Imaging in Biological Research at Nano Science Centre, University of Calcutta in Collaboration with RD
	2011	Dr. S C Dasgupta	Effect of aqueous (Cobra) Shed skin extract on estrous cycle of Swiss albino mice. In: National conference on Natural Product Research for Health and Biopharma Industry. Department of Biotechnology, Kumaraguru College of Technology, Coimbatore, Tamilnadu, March 25-26 <sup>th</sup> , 2011 { presented by research scholar S Mukherjee }
	2012	Dr. D. K. Som	Workshop and first training programme on Taxonomy of Insects and Mites at University of Agricultural Sciences, Bangalore, under ICAR niche area of Excellence project on Capacity Building in Taxonomy of Insects and mites
	2012	Dr. S.C.Dasgupta	Chaired in a Session Annual Conference of Toxicological society of India, BITS Goa 18 <sup>th</sup> -20 <sup>th</sup> December, 2013 Skin as a treasure house of Bioactive molecules
	2012	Dr. S.C. Dasgupta	Bioactivity of a small molecular weight compounds (NNSS2) from <i>Naja naja</i> shed skin on estrous cycle of female albino mice. St. Hilda’s College, Oxford, UK, 18-20 <sup>th</sup> September 2012. [ presented by Research Scholar S
	2012	Dr. P. K. Kar	Invited Talk, UGC Sponsored State Level Seminar, Org. By. Bajkul Milani Mahavidyalaya
	2013	Dr. S. Chakraborty	Delivered a lecture in Spring Talk in the Department of Zoology, University of Calcutta on “Quantitation of immunotoxicity in invertebrates and search for cellular biomarkers of environmental toxicity”

Departments	Year	Name of faculty	Awareness generation programme / Exhibitions / Seminars / Training programme attended
	2013	Dr. S. Das	Presented a poster in an International Seminar in Barcelona, Spain
	2013	Dr. S.C. Dasgupta Dr. S. Chakraborty Dr. S. Manna	Visited CIFRI for one day training and laboratory visit on Ornamental Fish Culture
	2014	Dr. S.C. Dasgupta	. Bioactive Molecules from Shed Snake skin and snake headed fish skin”4 <sup>th</sup> Annual conference of Toxicological Society of India, at School of Tropical Medicine, 20-22 <sup>nd</sup> November 2014.
	2015	Dr. S. Roy Karmakar Dr. P. K. Kar	Participated in the Workshop on Genome Analysis and Molecular Techniques at BHU
	2015	Dr Sanjukta Manna	Participated in the workshop on Electron Microscope at Burdwan University
Microbiology	2011	Dr. S.Pal	Training programme on Modern Laboratory technologies in diagnostic Virology at NICED, Kolkata
	2011	Dr. R. Ray	Training programme in Confocal Imaging at Saha Institute of Nuclear Physics
	2011	Dr.S.P.Banik	Short introductory training programme in Fluorescence Correlation Spectroscopy at IICB, Kolkata
	2011	Dr. S.Pal Dr. R. Roy Dr.S.P.Banik	1 <sup>st</sup> National Workshop for college teachers on Application on Flow cytometry, Cell sorting & Imaging in Biological Research at Nano Science Centre, University of Calcutta in Collaboration with BD. Bioscience
	2011	Dr. S. Pal Saha Dr. Rini Roy	Invited talks at the UGC Sponsored National Level Seminar on Microbiology: Development and Challenges in Basic and Applied Research organized by Department of Microbiology, Ramakrishna Mission Vidyamandira, Belur in collaboration with Bose Institute, Kolkata 6-7 <sup>th</sup> April, 2011
Physics	2010	Dr. S. Chakraborty	Advanced String School, Puri, India National Strings Meet, Mumbai, India
	2011	Dr. S. Chattopadhyay	UGC Sponsored National Seminar, Narishma Dutta College & Seth Anandaram Jaipuria College, Kolkata
		Dr. M. Ghosh	National workshop on Quantum Perspectives of Advanced Materials (QPAM-11), Vidyasagar University
		Dr. S. Chakraborty	International Conference on Theoretical & Applied Physics, IIT-Kharagpur

Departments	Year	Name of faculty	Awareness generation programme / Exhibitions / Seminars / Training programme attended
	2012	Abhishek Dey Apurbo Kheto	Frontiers of High Energy Physics, IMSc Golden Jublee Symposium, The IMS Chennai Neutron-Stars; inside and outside, SINP, Kolkata
		Dr. S. Chakraborty	SERC Scholl of Theoretical High Energy Physics, Kolkata International School on String & Fundamental Physics, DESY-Hamburg Germany Spring School on Super String Theory & Related Topics, ICTP-Trieste Italy International conference on Modern Perspectives of Cosmology & Gravitation, ISI Kolkata Indian Strings Meeting, Puri, India
	2013	Abhishek Dey Apurbo Kheto	The Instructional Workshops of Particle Physics, Harish Chandra Research Institute, India The XXVIIIth SERC School on Theoretical high Energy Physics IIT, Kanpur Advance in Astroparticle Physics & Cosmology (APPCOS-2013), IAS-Simla
		Dr. S. Chakraborty	July Gauge/Gravity Duality, Max Planck Institute, Munich, Germany
		Dr. S. Chakraborty	1. Dec 2013 School on Quantum Field Theories on Lattice, SINP, Kolkata, India.
		Dr. S. Chattopadhyay	National Workshop on 'Application of Radiation in Physical, Chemical and Life Sciences' held at Centre for Research in Nanoscience and Nanotechnology, CU, Sept 4-6
		Dr. A. Ghorai	presented a poster in Bengal Science Lecture and Satellite conference on Last 100 Years of Science in India, held at SINP, Kolkata, 9-10 <sup>th</sup> Jan; Effect of electric field on the growth of sprout length of ground nut seeds.
	2014	Abhishek Dey	Discussion Meeting on EWSB and Flavours in the Light of LHC, IIT Guwahati, 20-22 February
		Abhishek Dey	The Instructional Workshop on Particle Physics- "SANGAM@HRI 2014 ", Harish-Chandra Research Institute,24-29 March
		Abhishek Dey	XXI DAE-BRNS High Energy Physics Symposium, held at IIT Guwahati 8-12 December presented a talk titled "Exploring MSSM for Charge and Color breaking and other constraints in context of Higgs at 125 GeV"
		Apurba Kheto	Superfluid neutron stars with isospin dependent entrainment effect, poster presentation, at the 59th DAE Symposium on Nuclear Physics, December 8-12, BHU, Varanasi, India

Departments	Year	Name of faculty	Awareness generation programme / Exhibitions / Seminars / Training programme attended
		D. Bhattacharya	CMDAYS14 held at Dept. of Phys.& Centre for Research in Nanoscience and nano technology, University of Calcutta, 27-29 <sup>th</sup> Aug. Defect studies in hcp crystals like Cd and Tl.
		Dr. A. Ghorai	CMDAYS14 held at Dept. of Phys.& Centre for Res in Nanosci & nanotechnol, CU, 27-29 <sup>th</sup> Aug. Defect studies in hcp crystals like Cd and Tl. & Study of point defects in magnesium and zinc
		S. Chattopadhyay	CMDAYS14 held at Dept. of Phys.& Centre for Research in Nanoscience and nano technology, University of Calcutta, 27-29 <sup>th</sup> Aug.2014; Study of point defects in magnesium and zinc.
	2015	Abhishek Dey	LHCDM-2015, Three Week Workshop on LHC and Dark Matter, held at IACS Kolkata ,9-28 February
		Apurba Kheto	Global properties of slowly rotating superfluid neutron star with isospin dependent entrainment, poster presentation, at the 7th International Conference on Physics & Astrophysics of Quark Gluon Plasma, February 2-6, VECC, Kolkata

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

Table 3.7: Prioritized research areas of the faculty

Departments	Name of the faculty	Designation	Prioritized Research Areas/Expertise
Zoology	Dr. Subir Chandra Dasgupta	Professor	Toxicology
	Dr. Dipak Kumar Som	Associate Professor	Entomology
	Dr. Sudipta Chakraborty	Assistant Professor	Parasitology, Immunology, Toxicology
	Dr. Pradip Kumar Kar	Assistant Professor	Parasitology, Biodiversity, Nanobiotechnology / Neuronanotechnology
	Dr. Sanjukta Manna	Assistant Professor	Parasitology
	Dr. Animesh Panigrahi	Associate Professor	Fishery
	Dr. Susanta Roy Karmakar	Assistant Professor	Cytogenetics
	Dr. Rajarshi Ghosh	Assistant Professor	Haematology
	Sri Abhishek Mukherjee	Assistant Professor	Ecology and Environmental Science

Departments	Name of the faculty	Designation	Prioritized Research Areas/Expertise
	Smt. Nabanita Ghosh	Assistant Professor	Immunology
Chemistry	Dr. Ashis Kr. Mukherjee	Associate Professor	Inorganic Chemistry
	Dr. Arijit Chakraborty	Assistant Professor	Synthetic Organic Chemistry
	Dr. Ambarish Roy	Assistant Professor	Supramolecular chemistry
	Dr. Sudip Bandopadhyay	Assistant Professor	Computational Chemistry
	Dr. Subhendu Maiti	Assistant Professor	Molecular Spectroscopy
	Dr. Subhodip Samanta	Assistant Professor	Spectroscopy of Supramolecules & Biomolecules
	Sri Sanju Das	Assistant Professor	Chemosensors
	Sri Arijit Kundu	Assistant Professor	Synthetic Organic Chemistry
Microbiology	Dr. Swapan Bhattacharyya	Associate Professor	Mellisopalynological
	Dr. Samudra Prosad Banik	Assistant Professor	Biophysical characterization of industrially important fungal enzymes
	Dr. Rini Roy	Assistant Professor	Neurobiochemistry and Microbial Biochemistry
	Dr. Avishek Ghosh	Assistant Professor	Host-Pathogen interaction
Economics	Dr. Santanu Ghosh	Professor	International Economics and Public Economics
	Sri Ujjal Chattopadhyay	Associate Professor	Macroeconomics and Public Economics
	Sri Ujjal Baran Roy	Associate Professor	Monetary Economics and
	Sri Abhijit Mandal	Assistant Professor	Statistics and Econometrics
	Smt. Joyeeta Saha	Assistant Professor	Econometrics
Mathematics	Sri Kartik Chandra Basak	Associate Professor	Cybernetics
	Sri Bidyut Kumar Roy	Associate Professor	Geophysics & Geodesy
	Dr. Somnath Bandyopadhyay	Associate Professor	Real Analysis
	Dr. Nanda Das	Assistant Professor	Bio mathematics
Sociology	Dr. Samit Kar	Associate Professor	Rural Sociology
	Dr. Debaprashad Chatterjee	Associate Professor	Population Studies, Environmental Sociology
	Dr. Aditi Basu	Assistant Professor	Stress-Management
	Smt. Mahua Patra	Assistant Professor	Development & Planning, Health & Illness
Physics	Dr. Amitava Ghorai	Associate Professor	Solid state Physics
	Dr. Uttam Sinha Mahapatra	Assistant Professor	Solid State Physics
	Dr. Madhusudan Ghosh	Assistant Professor	Radiophysics & Electronics
	Sri Debaprem Bhattacharya	Assistant Professor	Electronics
	Dr. Sanjay Chattopadhyay	Assistant Professor	Experimental Condensed Matter Physics
	Sri Apurba Kheto	Assistant Professor	Particle Physics
	Dr. Somdeb Chakraborty	Assistant Professor	Particle Physics
	Sri Abhishek Dey	Assistant Professor	Particle Physics
Botany	Dr. Partha Roy	Associate Professor	Palaeobotany and Palynology
	Dr. Naim Uddin	Associate Professor	Mycology and Plant Pathology
	Dr. Rajarshi Roy	Assistant Professor	Plant Physiology, Biochemistry and

Departments	Name of the faculty	Designation	Prioritized Research Areas/Expertise
			Molecular Biology
	Dr. Sautrik Basu	Assistant Professor	Cell, biology, Molecular Genetics & Plant Biotechnology
Islamic History	Jamil Ahmed	Associate Professor	Islamic Thought and Sufism.
	Md. Ashif Zamal Lasker	Assistant Professor	Urbanisation in medieval Bengal
	Sri Gourishwar Choudhuri	Assistant Professor	Art & architecture in Medieval India
English	Dr. Sisir Kumar Chatterjee	Associate Professor	British Poetry; Linguistics & Phonetics
	Smt. Bhawani Datta	Associate Professor	Modern English
	Sri Parimal Bhattachacharya	Associate Professor	Post Colonial Studies
	Smt. Anamitra Chatterjee	Assistant Professor	Shakespeare Studies
	Smt. Pritha Chakraborty	Assistant Professor	American Literature
History	Smt. Paramita Maharatna (Chakrabarty)	Associate Professor	18 <sup>th</sup> Century in Indian History
	Dr. Sucharita Ghosh Sengupta	Assistant Professor	Gender Studies
	Sri Dhananjoy Bhattacharjee	Assistant Professor	Modern Indian History
Arabic	Dr. Syed Shah Marhoonul Irshad Alquaderi	Assistant Professor	Literature
	Syed Mustafa Murshed Jamal Shah	Assistant Professor	Literature
	Dr. Md. Sadrul Islam	Assistant Professor	Literature
	Shafiqul Islam	Assistant Professor	Literature
Commerce	Dr. Hareram Hazra	Associate Professor	Financial Management
	Dr. K.C.Sinha	Associate Professor	Financial Management
	Smt. Madhu Sarda	Assistant Professor	Accounting & Finance
Bengali	Dr. Kabita Chandra	Associate Professor	Tagore Literary Works
	Dr. Susobhan Mukhopadhyay	Assistant Professor	Drama & Medieval Bengali Literature
	Dr. Niloy Baksi	Assistant Professor	Modern Literature
Urdu	Dr. Dabir Ahmed	Associate Professor	Linguistics and criticism
	Dr. Shahnawaz Shibli	Assistant Professor	Poetry and criticism
	Dr. Md. Humayun Jamil Khan	Associate Professor	Poetry
	Dr. S.M.Azhar Alam	Assistant professor	Drama
	Dr. S.M. Hashmi	Assistant Professor	Poetry
	Dr. Shabnam Parveen	Assistant Professor	Poetry
	Md. Manzar Hussain	Assistant Professor	Prose
Persian	Dr. Iftekhar Ahmed	Assistant Professor	Sufi Literature, Classical Persian literature and old manuscripts reading
	Md. Shahid Jamil	Assistant Professor	Modern Persian
	Syed Md. Iqbal Shah Alquadri	Assistant Professor	Sufi Literature
Philosophy	Smt. Anuradha Sen	Associate Professor	Philosophy of The Nyaya Vaushesikas School
	Dr. Sanghamitra Dasgupta	Assistant Professor	Social-Political Philosophy
	Dr. Madhuchhanda Bhattacharyya	Assistant Professor	Logic: Philosophy and Application (Indian & Western)

Departments	Name of the faculty	Designation	Prioritized Research Areas/Expertise
	Dr. Suparna Mitra	Assistant Professor	Philosohy of The Nyaya School
Political Science	Sri Bikash Chandra Dutta	Associate Professor	International Relations
	Dr. Manas Mukul Bandyapadhyay	Associate Professor	Socialist Thought
	Sri Alok Das	Associate Professor	Socialist Thought
	Dr. Asis Kumar Basu	Associate Professor	International Relations
Statistics	NILANJAN CHAKRABORTY	Associate Professor	Design of Experiments, Econometrics
	PARTHA PAL	Assistant Professor	Multivariate Analysis, Reliability Theory, Advanced Inference
	ANUP KUMAR GIRI	Assistant Professor	Applied Multivariate Analysis, Advanced Inference, Computer Application in Statistics
	DEBAJIT CHATTERJEE	Assistant Professor	Advanced Inference
Sanskrit	Dr Onkar Nath Pathak	Assistant Professor	Paninian Grammar
	Sri Biswarup Mandal	Assistant Professor	Nyaya Vaisesika
	Sri Laxmi Narayan Rao	Assistant Professor	Prachin Nyaya

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

UGC and other sponsored seminars and workshops are organized by various departments through which researchers from various field visit the campus and interact with students as well as teachers.

### 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?

- ❖ Technically the Service rules of the Government of West Bengal do not provide “sabbatical leave”. However there is provision for commuted leave without medical certificate for a maximum of 180 days in an incumbent’s entire service period to enable teachers to pursue advanced level research work.
- ❖ The Principal is very prompt to grant duty leave as required for selected resource person

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

**Table 3.8: Lab to Land Initiatives**

<i>Sl. No</i>	<i>Lab to Land initiative</i>	<i>Year</i>
1.	Two patents( One International & One National) by Prof. S.C.Dasgupta on novel chemical compounds from snake venom	2007-08
2.	Water testing Facility of the college worked on drinking water of Government Hospital, College Hostels, different college canteens and any sample brought to the Laboratory by Microbiology Department	Since 2009-10 Observations published
3.	A VECC project on LHC carried out by Dr. Bhaskar De, Assistant Professor of Physics. Observations related to CERN Higgs-Boson Project	2008-09
4.	SEBCA initiative in creating awareness on Biodiversity and Conservation Worked in association with 4 schools, both rural and urban, and imparted training on pug-mark analysis, GPS tracking of animals etc by Zoology Department	2012-13 2013-14 2014-15
5.	Medicinal Plant garden being maintained by students and teachers of the Department of Botany	2011-12
6.	Milk quality, vegetable contamination check, presence of heavy metals in drinking water is being continuously monitored and observations are presented by students of Microbiology Department in public forum, scientific forum and journals.	2011-12
7.	A field survey and wrote an assessment report on Alternative Education Programme being conducted in Mayurbhanj district, Odisha by the non-government organization Sikshasandhan, Bhubaneswar 754258, in collaboration with Welthungerhilfe, Germany	2011-12
8.	Important observations on depletion of migratory bird population in the water bodies were presented by Dr.T.N.Khan in popular periodicals generated good response in public forum.	2013-14
9.	“Environews” published in association with department of microbiology is a newsletter published periodically on vital environmental issues	2012-13
10.	Collaboration with Central Inland Fishery Institute for Ornamental Fish culture with Zoology ( Hons) students	2014
11.	Organic farming and its benefits & seedling morphology, Mushroom culture, storage procedure and marketing, vermicomposting and its use, for Botany (H) students	2015
12.	Apicultural techniques & ornamental fish maintenance	2015
13.	. Visit to Agrihorticulture Society of India for Hands on training on Morphological survey of shedy plants, Xenogarden survey, Cloning and vegetatative propagation study	2015
14.	Visit to Agrihorticulture Society of India for Hands on training on grafting study of plants, Study of Palms, Ornamental herbs and Gymnosperms	2015
15.	In order to mark the occasion of International Science Day, 24 students from Taltalla High School, Kolkata-700013 participated in the outreach programme “Demonstration and Interactive session on the World of Microbes” conducted by the faculty members of the Dept. of Microbiology on 26/02/15 under Science Day Celebration programme	2015



Sl. No	Lab to Land initiative	Year
16.	21 students from All India Institute of Hygiene and Public Health, Salt Lake City, Kolkata, attended the outreach programme "Laboratory demonstration session on Basic Microbiology, Biochemistry and Molecular Biology" conducted by the faculty members of the Dept. of Microbiology .	2015
17.	Institute Day celebration by National Institute of Biomedical Genomics, Kalyani, at Science City mini auditorium on 23 <sup>rd</sup> February, 2015. Two 2 <sup>nd</sup> year students of Microbiology Hons attended the seminar accompanied by three faculty members- Dr. Soma Pal Saha, Dr. Rini Roy and Dr. Samudra Prosad Banik	2015
18.	Attended National Conference on <i>Food Safety: New Horizon for Healthy Nation</i> jointly organized by Society for Nutrition and Dietetics and Department of Microbiology, Lady Brabourne College at Lady Brabourne College, Kolkata on 17 <sup>th</sup> January 2015. Dr. Soma Pal Saha, Dr. Rini Roy and 1 <sup>st</sup> year and 2 <sup>nd</sup> year students of Microbiology Hons	2015
19.	Attended the National Seminar on Aqua resources: Care and Concerns, organized by Social Environmental and Biological Association (SEBA) in collaboration with ENVIS Centre on Faunal Diversity, Zoological Survey of India and West Bengal Biodiversity Board at Indian Institute of Chemical Engineers, Jadavpur University Campus, Jadavpur, Kolkata on February 14, 2015. Dr. Rini Roy and 2 <sup>nd</sup> year students of Microbiology Hons.	2015
20.	Participated in the World Science Congress at Ramakrishna Mission Institute of Culture & Faculty Council of Science, JU at Swami Vivekananda Hall, the RKM Institute of Culture, Golpark, Kolkata, and February 28, 2015. Dr. Soma Pal Saha and Dr. Rini Roy, Dept. of Microbiology along with 1 <sup>st</sup> year and 2 <sup>nd</sup> year students of Microbiology Hons.	2015
21.	Participated in the International Students Meet on Public Health at Science City, Kolkata, February 9-10, 2015 by 2 <sup>nd</sup> year students of Microbiology Hons	2015
22.	Participated in National Science Day celebration organized by ISCA, Kolkata chapter on 28 <sup>th</sup> February, 2015 at University College of Science & Technology, Kolkata by 1 <sup>st</sup> year students of Microbiology Hons	2015
23.	Participated in Science Communicators meet at BITM on 21 <sup>st</sup> April, 2015 organised by Indian Science News Association by 2 <sup>nd</sup> year students of Microbiology Hons.	2015
24.	Participation in debate competition by two 1 <sup>st</sup> year students accompanied by Dr. Soma Pal Saha and Dr. Rini Roy on ' <i>Biodiversity is not essential for sustainable development</i> ' in the celebration of International Day for Biological Diversity on 22 <sup>nd</sup> May, 2015 at Science City Mini Auditorium, Kolkata organized by West Bengal Biodiversity Board, Kolkata.	2015
25.	Miss Debangana Dey Postgraduate student of Zoology selected as INSA Summer training Fellow at Rajaramanna Centre for Advanced Technology, Indore	2015
26.	Miss Amrita Bhattacharjee Postgraduate student of Zoology selected as INSA Summer training Fellow at Institute of Intregative Biology	2015

### 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.

Research budgeting is in accordance with the requirements of the funding agencies. State development grant does not specify for research. However, infrastructure development done with this grant is meant for research as well. Some sponsoring agencies are approached such as the UGC, DST, CSIR, and National Tea Research Foundation

(NTRF) to fund Infrastructural developments to facilitate Research. The funding allotments are as follows:

**Table 3.9: Research Funding during last five years**

Scheme	Allocation	Nature of Utilization		Actual Utilization
		Sub-heads	Amount Utilized	
UGC-BSR	Rs. 35,00,000/-	Infrastructure development in 7 Science Departments	Rs. 35,00,000/-	Rs. 35,00,000/-
DBT	Rs. 40,66,000/-	Infrastructure development	Rs. 25,00,000/-	Rs. 40,66,000/-
		Hands on training	Rs. 15,66,000/-	
DST	Rs. 37,50,000/-	Equipment	Rs. 30,26,000/-	Rs. 37,50,000/-
		Networking	Rs. 6,74,000/-	
		Books	Rs.50,000/-	
UGC-CPE	Rs. 14,54,479/-	Recurring	Rs. 6,58,088/-	Rs. 14,54,479/-
		Recurring	Rs. 7,96,391/-	
DBT – BOOST, Govt. WB	Rs-35,00000/-	-	-	-
NTRF	Rs. 1472911/-	-	Rs. 1472911/-	Rs. 1472911/-

*Please see 3.1.5 for details of Research Funding*

**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?**

- ❖ There is limited scope for funding research or releasing personnel for study leaves of their own for a Government Institution. However, we have been able to provide seed money for small projects under UGC-CPE Grant as per Table No- 3.10

**Table 3.10: Seed Money allocated for short term research under CPE assistance**

1.	2010-11	UGC-CPE	Seed Money for short-term research	Rs.10,000	Gender Roles and Stress-differences: A Study of Professional couples PI: Ms. Aditi Basu
2.	2010-11	UGC-CPE	Seed Money for short-term research	Rs. 30,000	Exploring Social-Ethical Context of Indian Medical Science PI: Prof. Arpita Sengupta Prof. Ananya Roychowdhury
3.	2010-11	UGC-CPE	Seed Money for short-term research	Rs. 10,000	Stress Management among Professional Couples Prof. Aditi Basu
4.	2010-11	UGC-CPE	Seed Money for short-term research	Rs. 18,000	Employment Prospect and economics status of women workers in unorganized sector Prof. Nandita Basak Prof. Barnana GuhaThakurta
5.	2010-11	UGC-CPE	Seed Money for short-term research	Rs. 10,000	Concept of war and its socio-economic political impaction Political Philosophy Prof. Sanghamitra Dasgupta
6.	2010-11	UGC-CPE	Seed Money for short-term research	Rs. 10,000	An analytical survey of female workers in shopping malls of Kolkata Prof. Shampa Dutta Gupta
7.	2010-11	UGC-CPE	Seed Money for short-term research	Rs. 10,000	An analytical survey of management values in West Bengal ethical and non-ethical issues. Prof. Nandita Bagchi

8.	2010-11	UGC-CPE	Seed Money for short-term research	Rs. 10,000	Group theatre and women PI: Prof. Nandini Saila Dasgupta
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- ❖ About 10% of the faculty has availed the facility in last four years.

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

- Postgraduate level project work engages students as associate researchers and the funding is provided from the autonomous corpus fund of the departments which includes partial UGC and INSA funding for all the PG departments
- Student Research Projects at UG level are supported under DBT Star college programme :

**Table 3.11: Details of allocations to support student research- for UG students (DBT supported)**

	Beneficiary	Outlay	Year
1	Physics	Rs. 2,00,000/-	2011-12
		Rs. 1,13,000/-	2012-13
2	Chemistry	Rs. 2,00,000/-	2011-12
		Rs. 1,13,000/-	2012-13
3	Microbiology	Rs. 2,00,000/-	2011-12
		Rs. 1,13,000/-	2012-13
4	Botany	Rs. 2,00,000/-	2011-12
		Rs. 1,13,000/-	2012-13
5	Zoology	Rs. 2,00,000/-	2011-12
		Rs. 1,13,000/-	2012-13

- DST Funding was made available for up gradation of Research Laboratories in all Science Departments:  
Grant No.SR/FST/FIST/College-013/2010 dated 01.11.2010  
**Allocation: Rs.37.50 Lakh**
    - Equipment: Rs.30.24 lakh
    - Networking: Rs.6.74 Lakh
    - Books : Rs.0.50 lakh
- Beneficiary Departments: All Science Departments

### 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 college has a central instrumentation centre that provides support to all researchers.
- ⇒ The facilities like FT-IR, Rotary evaporator, Spectrofluorimeter in Chemistry department Phase Contrast Microscope , GEL DOC , and Lyophilizer in Microbiology department, Cell culture unit, Animal House, DNA amplifier, High speed cold centrifuge in Zoology Department and several other facilities are unique and shared when needed.

- ⇒ All language departments of the College have interacted in translation workshops and published volumes on translated works of Jnanpeeth awardee poet Bishnu De has already been published.
- ⇒ School of Socio-economic Research was established in 2010-11 and seven projects were successfully completed and published in volume titled “ Wanderings on Women, Work, Well Being and War”
- ⇒ Interdisciplinary approach was particularly beneficial in designing student projects and all such projects were interdisciplinary in nature.

#### **Challenges Faced in Interdisciplinary Student Projects:**

The initiative was hugely popular among the students. Ideally, we should be able to interact with students of other institutions as well in these programmes. But, the laboratory facilities are not sufficient enough to accommodate many students at a time. It could have been better if we had been able to take up these during vacations. However, during vacations teachers are held up for a long stretch of time for invigilation and other exam related duties. Making the vacations available for these initiatives is one challenge we hope to solve in coming days.

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

- Instrument purchase is prioritized on the basis of need and demand. No such instrument is purchased here, which would add to the departmental instrument profile but hardly used ever. So, use potential is primary criterion for selection of instruments.
- The research facilities are yet to catch up with interest in research this college is generating. There are six Major projects in the pipeline. The college hopes to augment the needs in the areas of interest when and if these projects are sanctioned. The IQAC and the Research Committee would look into optimization aspects in every step.
- Heads of the departments are taking responsibilities for optional use of various instruments. Log books are maintained for different instruments for proper use of them. Instruments namely UV-VIS Spectrophotometer, Lyophiliser, FTIR, Rotary evaporator are used by different Biological and Physical Science departments and also by outside research institutes and University.

#### **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.**

During last five years special grants were made available through NTRF, UGC, DST and DBT. Please see Table 3.9 for the list of special grants received.

#### **3.2.7. Enumerate the support provided to the faculty in securing research funds from**

**various funding agencies, industry and other organisations. Provide details of ongoing and completed projects and grants received during the last four years.**

- The institution has a Research Committee which regularly keeps the faculty updated about the invitation of proposal from different funding agencies
- The applications are promptly reviewed and forwarded to the Principal
- The Principal in consultation of the IQAC forwards the proposals to the funding agencies.
- The applicants are given necessary leave to attend the proposal- defence meets at the office of funding agencies.
- Infrastructure augmentation is prioritized in view of ongoing and proposed Research schemes.
- Student research is encouraged and all such publications must incorporate all the names of the students who have taken part in completion of a project.
- All scholars and researchers can access library and E-inventories at their convenience.

*Please refer to Table 3.4 for the details of the Research Projects materialized during last five years.*

### **3.3 RESEARCH FACILITIES**

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

This college has a notable tradition of UG science teaching combined with high value of research work. To enrich UG laboratories, the CPE grant were utilized judiciously. Following areas were identified on the basis of proposals put forward by the concerned departments and which have been successfully completed.

- ✓ 24 hrs Internet facility
- ✓ Well equipped computer laboratories
- ✓ Enriched computerized library with modern books and Journals of various field
- ✓ Collaborative facilities on institutional and department levels
- ✓ Regular visits and interactions with other research facilities , industrial institutions , excursions and field work
- ✓ Each science department has state of the art modern instrumentation facilities

### 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 college has a long standing research tradition. There is a research committee in place that judges, finalizes and monitors all research proposals. Excellence has been particularly approached in life sciences as this is the emerging area we can address best with our resources and personnel. However, material sciences, social sciences and languages have stepped beyond conventional boundaries to address various issues of interest and relevance.

The institution forwards all proposals fast, augments the infrastructural facilities, and provides additional print and E-resources and grants leave as per rules for attending seminars, conferences and research bodies.

- ⇒ Provision of building expansion to create state of the art infrastructure
- ⇒ Expanding women hostel facilities to help students to conduct research and project work at the PG level beyond normal hours.
- ⇒ Ensuring uninterrupted electric supply by setting up special transformer, maintaining a high capacity generator had been one key development.
- ⇒ Upgrading, renovation and expansion of laboratories are continuously done.
- ⇒ Women study centre encourages faculties and students for undertaking research.

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

**Table 3.12: List of Equipments procured through special grants received**

Department	Instrumentation Highlights	Year of Procurement	Source	Expenditure incurred
Physics	1. Newton's Ring Experiment complete set up	2010-11	State Grant	Rs.13,315/-
	2. Callender Barnes Experiment Complete set up	2011-12	State Grant	Rs.14,982/-
	3. Analog digital Oscilloscope	2011-12	State Grant	Rs.33,103/-
	4. Frank-Hertz Experiment Model No.FH-3001)	2011-12	DBT STAR College	Rs.35,000/-
	5. Susceptibility measurement: Quinck's method and Gouy's method	2011-12	DBT STAR College	Rs.1,15,525/-
	6. 1 GHz Spectrum Analyser with tracking Generator	2011-12	DBT STAR College	Rs.98,800/-
	7. Scientific 2 Ch -1 mv ( 3MHz) Oscilloscope with delayed sweep SM-203M	2012-13	DST-FIST	Rs.41,100/-
	8. Scientific 60 MHz analog-digital Oscilloscope SM-1060	2012-13	DST-FIST	Rs.33,103/-

Department	Instrumentation Highlights	Year of Procurement	Source	Expenditure incurred
	9. 40 MHz TEKTRONIX analog-digital Oscilloscope TDS 1001C EDK	2012-13	DST-FIST	Rs.50,076/-
<b>Microbiology</b>	1. UV Visible spectrophotometer, Jasco, Japan	2009-10	State Grant	₹769,000/-
	2. Gel-Documentation unit	2011-12	DBT Star	Rs.2,99,000/-
	3. Fraction Collector EYALA, Japan	2010-11	UGC-CPE	Rs.3,50,000/-
	4. Freeze drier	2012-13	DST-FIST	Rs.3,00,000/-
	5. Cold centrifuge	2009-10	State Grant	Rs.82,000/-
	6. Carl Zeiss Phase Contrast Microscope	2011-12	DST-FIST	Rs.4,20,000/-
	7. Canon 7D Camera Unit with macro lens, tripod, printer etc.	2012-13	Additional Grant-UGC	Rs.3,14,000/-
	8. BOD shaker incubator, Remi	2010-11	UGC-CPE	Rs.1,56,000/-
	9. Plant Tissue Culture lab	2010-11	UGC-BSR	Rs.5,00,000/-
<b>Zoology</b>	1. CO <sub>2</sub> incubator	2010-11	UGC-CPE	Rs.2,70,000/-
	2. pH meter (Sartorius)	2010-11	UGC-CPE	Rs80,000/-
	3. Orbital Shaker incubator	2010-11	UGC-CPE	Rs.1,17,188/-
	4. LASER rangefinder	2010-11	UGC-CPE	Rs.25,538/-
	5. Inverted microscope	2010-11	UGC-CPE	Rs.1,19,175/-
	6. UV Vis-Spectrophotometer, Yale	2010-11	UGC-CPE	Rs4,93,031/-
	7. PCR 25 well Bio-Rad	2011-12	DBT STAR	Rs.2,00,000/-
	8. Blotter and Minivac Complete unit	2011-12	DBT STAR	Rs.1,30,000/-
	9. Sony LCD projector	2011-12	DBT STAR	Rs.45,750/-
	10. 4°C Minicold unit	2011-12	DBT STAR	Rs.67,080/-
	11. Hermele Microscope	2012-13	DST-FIST	Rs.5,10,680/-
	12. AKTA Chromatography	2012-13	DST-FIST	Rs8,67,391/-
	13. Balance Sartorius	2012-13	DST-FIST	Rs.74,880/-
	14. Fluorescence Microscope (to be procured)	2015-16	DBT-BOOST	Rs11,00,000/-
	15. Spectrophotometer (to be procured)	2015-16	DBT-BOOST	Rs-5,00,000/-
	16. ELISA Reader (to be procured)	2015-16	DBT-BOOST	Rs-2,00,000/-
	17. Thermal Cycler (to be procured)	2015-16	DBT-BOOST	Rs-3,00,000/-
<b>Botany</b>	1. Laminar Air Flow	2009-10	State grant	Rs.1,25,000/-
	2. Cold Centrifuge (Remi)	2009-10	State Grant	Rs.1,61,000/-
	3. Olympus Trinocular Ch 20i	2010-11	UGC	Rs.1,00,000/-
	4. Gel Viewer, Dreier, Scooper with Vacuum pump	2011-12	DBT	Rs. 89,993/-
	5. Bench Top orbital shaker	2011-12	DBT	Rs. 38,000/-
	6. Thermal Cycler	2011-12	State Grant	Rs.2,00,000/-

Department	Instrumentation Highlights	Year of Procurement	Source	Expenditure incurred
	7. UV Tran illuminator	2011-12	DBT	Rs.36,000/-
Chemistry	1. Eyala (Japan) Powerful Aspirator A-1000 S Omega Chiller/ water bath circulator Eyala Cow lamp bath PLS-1400	2009-10	State	Rs.4,88,000/-
	2. Digital Polarimeter	2009-10	State	Rs.1,63,000/-
	3. Electronic weighing balance	2010-11	State	Rs.79,000/-
	4. Digital melting point apparatus	2010-11	UGC	Rs.42,000/-
	5. Digital Ph Meter Systronic-335	2011-12	State	Rs.1,00,000/-
	6. Ultra high Vacuum pump with accessories	2011-12	DBT	Rs.99,880/-
	7. Inert Gas distribution system	2011-12	DBT	Rs. 80,341/-
	8. Mettler Toledo electronic analytical balance	2011-12	DST	Rs.1,49,300/-
	9. Mettler Electronic semi –micro balance	2011-12	DST	Rs.1,96,000/-
	10. Perkin-Elmer FTIR	2012-13	UGC	Rs.9,00,000/-
	11. LS55 Spectro-Fluorimeter, Perkin-Elmer	2014-15	State	Rs.20,00,000/-
	12. Lambda25 Spectrophotometer, Perkin-Elmer			

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

The research scholars can utilize the infrastructure (instruments etc.) of the following eminent research centres of Kolkata:

- Central Instrumentation facility of Indian Institute of Chemical Biology, Kolkata.
- Instrument facility of the Modern Biology Centre of University of Calcutta (Nano Science) and at Ballygunge Science College campus.
- Instrument facility at the Rajabazar Science College campus of University of Calcutta.
- Regional Instrumentation centre at Bose Institute, Maniktola, Kolkata

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

#### Improvement of facilities in library:

- ✓ Fully computerized main library with departmental seminar library facilities
- ✓ New titles worth Rs. 4.0 lakh have been purchased for 21 departments.
- ✓ New journals like JSTOR/INFLIBNET and Science online have been introduced.



- ✓ International/National journals, online journals, CDROM, Online classes and Protein Data Bank for analyzing homology models and mutation studies are available for researchers.
- ✓ DELNET access has been created and it is available for research purpose

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

**Table 3.13: Collaborative Research Projects**

Sl. No.	Project*	Collaboration with
1	Title: Development and testing of herbo nano compounds against experimental snake envenomation Co-PI- Dr. Subir Chandra Dasgupta ICMR sanction no: 58/32/2012-BMS dt 04.03.2015	Prof. A.Gomes; Professor of Physiology, University of Calcutta Support: Technology transfer
2	Title-Search for Bioactive components from shed snake skin extract PI- Dr. Subir Chandra Dasgupta Sanction No: F No-38-130/2009(SR) Dated 19.12.2009	Prof. A.Gomes; Professor of Physiology, University of Calcutta Support: Technology transfer
3	Title- Effect of trehalose on aggregation of fungal glycosidase. Major Research Project-UGC. PI: Dr S P Banik sanction no: F. No. 43-69/2014 (SR) dated 23 <sup>rd</sup> July, 2015	In collaboration with Dr. Suman Khowala, IICB
4	Title – Neuro-nanotechnology – quantum dot applications in invertebrate models. PI- Dr. Pradip Kumar Kar Italy-India Executive Programme jointly funded by Min. Of Foreign Affairs, Italy and DST, India	Collaborator: Prof. Dario Sonetti, University of Modena and Reggio Emilia, Italy
5.	Title: Diversity, distribution and phylogenetic relationships of metazoan parasites (endohelminths) of fresh water and marine fish in India. Project Sanctioned by Academy of Sciences of the Czech Republic and European Union	Collaborator: Prof. Tomas Scholz, Director, Institute of Parasitology, Czech Republic
6	Memorandum of Understanding signed between Dr. Pradip Kumar Kar (WBES) and Provost, University of Connecticut	Collaborator: Prof. Janine Caira, Uconn
7	Title: Diversity, distribution and phylogenetic relationships of metazoan parasites (endohelminths) of fresh water and marine fish in India. Project Sanctioned by N.S.F., U.S.A., to Prof. Janine Caira	Collaborator: Prof. Janine Caira, Uconn
8	Memorandum of Understanding signed between Dr. Pradip Kumar Kar and Prof. Tomas Scholz.	Collaborator: Prof. Tomas Scholz
9	Title: A study on nan osized CMR manganites PI: Dr S. Chattopadhyay Sanction No: PSW-130/10-11 dt. 01/11/2011	Collabor ator:Dr. D Jana, CU and Dr. A Sarkar, Bangabasi Morning

## 3.4 RESEARCH PUBLICATIONS AND AWARDS

### 3.4.1 Highlight the major research achievements of the staff and students:

- ❖ Research Projects worth **Rs.1, 27, 77,000/-** during last four years.

- ❖ Dr. Debaprashad Chatterjee is part of a US \$720000/- project as co-investigator on Comparing Climate Change Policy Networks (COMPO): Effect of Advocacy Networks and Participation on Climate Change Policy Formation. Dr. Debaprashad Chatterjee, Associate Professor, Department of Sociology is Country Co-Investigator, India Chapter, Country Case Leader – Sony Pellissery, Institute of Rural Management. NSF Grant No. 0827006.
- ❖ Dr. Pradip Kumar Kar, is the Indian PI of National Science Foundation's (USA), Planetary Biodiversity Inventory grant of US\$ 3 Million, sanctioned to Prof. Janine Caira of University of Connecticut in 2008, as part of the M.O.U. signed between Dr. Pradip Kumar Kar and the Provost, University of Connecticut.
- ❖ Two Capacity Building programmes for Women Managers in Education were successfully coordinated by the institution.
- ❖ Two Patents obtained by Prof. S.C.Dasgupta, Professor, Zoology Department.
  - [1. 'A process for the isolation of a novel antiarrhythmic compound useful for pharmacological purpose', Antony Gomes, Archita Saha, Ajoy Kumar Biswas, Subir Chandra Dasgupta, International Patent CSIR, New Delhi (Patent No-0344NF2002/US dated 11.03.2003
  - 2. 'A process for the isolation of a novel antineoplastic compound useful for Pharmacological purpose', Antony Gomes, Suarjit Karmakar, Aparna Gomes, Tulika Das, Arindam Ghosh, Ajoy Kumar Biswas, Subir Chandra Dasgupta, National Patent, ICMR, New Delhi (patent no- 832/Del/2003 dated 23.06.2003]
- ❖ Department of Biotechnology, Government of West Bengal grant (BOOST II) to Postgraduate Department of Zoology for strengthening Infrastructural facilities.
- ❖ Important work in School of Socio-Economic Research by women members of the faculty on women related issues.
- ❖ Active collaboration with University of Calcutta, Indian Institute of Chemical Biology, Visva Bharati, Jadavpur University, Institute of Wetland Management etc.

**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?**

Yes. The college publishes three journals.

**1. The Journal of the Post Graduate Department of English (ISSN-2249 8737)**

**Editorial Advisory Board:**

Shanta Mahalanobis, WBSES (Retd.)  
 Amlan Dasgupta, Jadavpur University,  
 Tapati Gupta, Calcutta University  
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 Praloy Kumar Deb, Kalyani University  
 Debaprasad Bhattacharya, Kalyani University  
 Himadri Lahiri, Burdwan University  
 Niladri Ranjan Chatterjee, Kalyani University

N.B.Routh, Maulana Azad College  
 Namita Chakraborty, Maulana Azad College  
 Bhawani Dutta, Maulana Azad College  
 Amitabha Gupta, Maulana Azad College

**Editor:** Prof. Debaprasad Banerjee

## 2. MAC Journal of Basic and Applied Sciences (ISSN 2347 5366)

### Editorial Advisory Board

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 Debidas Chattaraj, Presidency University  
 Dipak Dasgupta, SINP, Kolkata  
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 Ananda Mukhopadhyay, University of North Bengal  
 Suman Khowala, IICB, Kolkata  
 Debasish Mukhopadhyay, SINP, Kolkata  
 Amal K. Paul, Calcutta University  
 Subrata Majumdar, Bose Institute  
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 Nirmalya Banerjee, Visva Bharati University  
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Debasish Sen, Department of Physics, Maulana Azad College  
 Swapan Bhattacharyya, Department of Microbiology, Maulana Azad College

### Associate Editors

Tarak Nath Khan, Department of Zoology, Maulana Azad College  
 Asish Mukherjee, Department of Chemistry, Maulana Azad College  
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 Partha Pal, Department of Statistics, Maulana Azad College  
 Rajarshi Roy, Department of Botany, Maulana Azad College

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 Sudipta Chakraborty, Department of Zoology, Maulana Azad College  
 Sautrik Basu, Department of Botany, Maulana Azad College  
 Debaprem Bhattacharya, Department of Physics, Maulana Azad College

## 3. MAC Academic Journal of Languages and Social Sciences (ISSN: 2395-2431)

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 Saikat Sinha Roy, JU  
 Shah Noorur Rahaman, North East Hill University  
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Ashis Kumar Basu, Dept. of Political Sc.  
 Shanawaj Shibli, Dept. of Urdu  
 Nandini Saila Dasgupta, Dept. of History  
 Sanghamitra Dasgupta, Dept. of Philosophy  
 Suparna Mitra, Dept. of Philosophy  
 Niloy Bakshi, Dept. of Bengali  
 Ritam Mukhrjee, Dept. of Bengali

### 3.4.3. Give details of publications by the faculty and students:

**Table 3.14: Details of Faculty Publication during last five years**

Department	Name of the faculty	Number of papers published in Peer reviewed Journals (National/International)	Number of publications listed in international Database*	Monographs	Chapter in Books	Books edited	Books with ISBN/ISSN	Citation index	SNIP	SJR	Impact factor	h-index
Zoology	Dr. S. C. Dasgupta	10	10	-	02	01	-	429	-	-	05-2.5	9
	Dr. Sudipta Chakraborty	09	09	01	01	-	01	65	-	-	2.48-3.03	4
	Dr. P. K. Kar	09	09	-	-	-	-	124	-	-	1.5-4.51	8
	Dr. S. R. Karmakar	12	12	-	-	-	-	124	-	-	0.8-2.17	6
	Dr. S. Manna	03	01	-	-	-	-	08	-	-	1.2	2
	Dr. Rajarshi Ghosh	11	05	-	01	-	-	04	-	-	1.3	1
	Dr. Avishek Mukherjee	16	11	-	-	-	-	66	-	-	0.52-1.91	5
	Dr Nabanita Ghosh	02	02	-	-	-	-	25	-	-	3.74	2
Microbiology	Dr. Swapan Bhattacharyya	5	5	-	4	-	-		0.998-1.034	0.551-1.3	0.98-3.234	1
	Dr. Soma Pal Saha	7	7	-	2	-	-		0.998	0.551	0.189-3.34	2
	Dr. Rini Roy	12	12	-	1	-	-	3	-	-	0.835-3.241	1
	Dr. Samudra Prosad Banik	14	14	-	3	-	-	169	0.653-2.013	0.473-2.199	0.55-4.365	6
	Dr. Avishek Ghosh	5	5	-	-	-	-	54	1.108-1.923	0.976-4.365	2.29-8.14	2
	Dr. Shakuntala Ghorai (PPT)	10	10	-	2	-	-		0.653-2.013	0.473-2.199	0.55-4.35	5
Botany	Dr. Naim Uddin	02	-	-	-	-	-	-	-	-	-	-
	Dr. Rajarshi Roy	02	-	-	-	-	-	-	-	-	-	-
	Dr. Sautrik Basu	06	-	-	-	-	-	-	-	-	-	-
	Dr Sukanya De	01	-	-	-	-	-	-	-	-	-	-
	Dr. Timir Baran Jha (Guest)	28	-	-	-	-	-	-	-	-	-	-

Department	Name of the faculty	Number of papers published in Peer reviewed Journals (National/International)	Number of publications listed in international Database*	Monographs	Chapter in Books	Books edited	Books with ISBN/ISSN	Citation index	SNIP	SJR	Impact factor	h-index
Physics	Dr. Amitava Ghorai	11	10	-	-	-	05	-	-	-	0.31	-
	Dr. Madhusudan Ghosh	07	05	-	-	-	-	-	-	-	3.84	-
	Dr. Uttam Sinha Mahapatra	28	28	-	-	-	01	-	-	-	1.99-5.49	-
	Dr. Sanjay Chattopadhyay	09	09	-	-	-	-	-	-	-	1.67=3.59	-
	Sri Debaprem Bhattacharya	01	-	-	-	-	-	-	-	-	-	-
	Dr. Somdeb Chakraborty	09	09	-	-	-	-	-	-	-	1.34-4.46	-
	Sri Apurba Kheto	02	02	-	-	-	-	-	-	-	4.86	-
	Sri Abhishek Dey	01	01	-	-	-	-	-	-	-	6.11	-
	Dr. Santanu Dutta (PTT)	01	-	-	-	-	-	-	-	-	-	-
Chemistry	Dr. Sudip Bandyopadhyay	02	02	-	-	-	02	-	1.132	1.271	2.775	-
	Dr. Arijit Chakraborty	07	07	-	-	-	-	620	0.509-1.823	0.258-3.293	0.621-4.651	11
	Dr. Ambarish Ray	03	03	-	-	-	-	103	0.675-1.383	0.476-1.926	3.708-4.101	6
	Dr. Subhodip Samanta	03	03	-	-	-	-	85	0.744-1.284	0.666-1.575	2.232-4.101	5
	Sri Sanju Das	04	04	-	-	-	-	02	0.744-1.383	0.634-1.926	1.991-4.101	-
	Sri Arijit Kundu	02	01	-	-	-	-	-	-	-	0.4-3.708	-
Economics	Dr. Santanu Ghosh	-	-	-	01	03	-	-	-	-	-	-
	Sri Ujjwal Chattopadhyay	-	-	-	-	-	06	-	-	-	-	-
	Sri Avijit Mandal	02	02	-	-	-	-	-	-	-	-	-
	Smt. Jayeeta Saha	02	-	-	-	-	-	-	-	-	-	-
	Dr. Rongili Biswas	04	04	-	01	-	-	-	-	-	-	-
Mathematics	Dr. Nanda Das	09	09	-	-	-	-	-	-	-	-	-

Department	Name of the faculty	Number of papers published in Peer reviewed Journals (National/International)	Number of publications listed in international Database*	Monographs	Chapter in Books	Books edited	Books with ISBN/ISSN	Citation index	SNIP	SJR	Impact factor	h-index
English	Dr. Sisir Kumar Chatterjee	03	-	-	02	-	01	-	-	-	-	-
	Parimal Bhattacharya	06	-	-	-	-	05	-	-	-	-	-
	Anamitra Chatterjee	02	-	-	-	-	-	-	-	-	-	-
	Subhodeep Paul	11	-	-	04	-	-	-	-	-	-	-
	Kallol Roy	02	-	-	-	-	-	-	-	-	-	-
	Madhumita Chanda (PTT)	02	-	-	02	-	02	-	-	-	-	-
History	Mrs. Paramita Maharatna (Chakrabarty)	01	-	-	03	-	-	-	-	-	-	-
	Dr. Sucharita Ghosh Sengupta	02	-	-	03	01	-	-	-	-	-	-
	Mr. Dhananjay Bhattacharjee	02	-	-	05	-	-	-	-	-	-	-
	Mrs. Nandini Saila Dasgupta	-	-	-	03	-	-	-	-	-	-	-
Bengali	Dr. Kabita Chanda	01	-	-	-	-	-	-	-	-	-	-
	Dr. Susobhan Mukhopadhyay	-	-	-	-	-	02	-	-	-	-	-
	Dr. Niloy Bakshi	01	-	-	-	01	-	-	-	-	-	-
	Dr. Ritam Mukherjee	27	-	-	09	-	02	-	-	-	-	-
Statistics	Partha Pal	01	-	-	-	-	-	-	-	-	-	-
	Debajit Chatterjee	01	-	-	-	-	-	-	-	-	-	-
Islamic History	Jamil Ahmed.	02	-	-	-	-	-	-	-	-	-	-
	Md. Ashif Zamal Lasker.	04	-	-	-	-	01	-	-	-	-	-
	Gourishwar Choudhuri	01	-	-	-	-	-	-	-	-	-	-
Commerce	Dr. Keshab Chandra Sinha	02	-	-	-	-	-	-	-	-	-	

Department	Name of the faculty	Number of papers published in Peer reviewed Journals (National/International)	Number of publications listed in international Database*	Monographs	Chapter in Books	Books edited	Books with ISBN/ISSN	Citation index	SNIP	SJR	Impact factor	h-index
Philosophy	Smt. Anuradha Sen	-	-	-	01	-	-	-	-	-	-	-
	Dr. Sanghamitra Dasgupta	-	-	-	02	-	02	-	-	-	-	-
	Dr. Madhuchhanda Bhattacharyya	04	-	-	03	-	-	-	-	-	-	-
	Dr. Suparna Mitra	02	-	-	03	-	01	-	-	-	-	-
Political Science	Dr. Manas Mukul Banerjee	01	-	-	01	-	-	-	-	-	-	-
	Mr. Alok Das	01	-	-	04	-	-	-	-	-	-	-
	Mr. Ranjan Roy	04	-	-	02	-	-	-	-	-	-	-
	Dr. Asis Kumar Basu	07	-	-	03	03	01	-	-	-	-	-
Sanskrit	Dr. Onkar Nath Pathak	02	-	-	-	-	01	-	-	-	-	-
	Mr. Biswarup Mandal	02	-	-	01	-	-	-	-	-	-	-
Sociology	Dr. Samit Kar	3	-	-	-	11	11	-	-	-	-	-
	Dr. Debaprashad Chatterjee	3	-	-	-	1	1	-	-	-	-	-
	Dr. Aditi Basu	-	-	-	2	-	-	-	-	-	-	-
	Mrs. Mahua Patra	3	-	-	2	-	-	-	-	-	-	-
	Dr. Madhumita Sen	-	-	-	2	-	-	-	-	-	-	-
	Dr. Arghya Sukul	1	-	-	4	-	-	-	-	-	-	-
Urdu	Dr. Dabir Ahmed	01	-	01	07	-	01	-	-	-	-	-
	Dr. Shahnawaz Shibli	11	-	-	11	-	02	-	-	-	-	-
	Dr.S.M.Hashmi	-	-	-	03	-	-	-	-	-	-	-
	Dr.Shabnam Parveen	01	-	-	01	-	-	-	-	-	-	-
	Md.Manzar Hussain	01	-	-	-	-	-	-	-	-	-	-

Department	Name of the faculty	Number of papers published in Peer reviewed Journals (National/International)	Number of publications listed in international Database*	Monographs	Chapter in Books	Books edited	Books with ISBN/ISSN	Citation index	SNIP	SJR	Impact factor	h-index
Persian	Dr. Iftexhar Ahmed	04	-	-	04	-	01	-	-	-	-	-
	Dr. Gholam Sarwar	01	-	-	-	-	01	-	-	-	-	-
	Dr. Husna Bano	01	-	-	-	-	-	-	-	-	-	-
Arabic	Syed Mustafa Murshed Jamal Shah Alquadri	-	-	01	-	-	-	-	-	-	-	-
	Md. Sadrul Islam	02	-	01	-	01	-	-	-	-	-	-
	Shafiqul Islam	01	-	-	-	-	-	-	-	-	-	-

#### 3.4.4 Provide details (if any) of research awards received by the faculty:

- ❖ **Dr. Debaprashad Chatterjee** has been chosen to be a part of a US \$589,539 project on Comparing Climate Change Policy Networks (COMPON): Effect of Advocacy Networks and Participation on Climate Change Policy Formation. Dr. Debaprashad Chatterjee, Associate Professor, Department of Sociology is Country Co-Investigator, India Chapter, Country Case Leader – Sony Pellissery, Institute of Rural Management. NSF Grant No. 0827006
- ❖ **Dr. Debaprashad Chatterjee** was Awarded Fulbright-Nehru Visiting Fellowship 2010-2011 to interact on ‘Comparing Environmental Concern: East versus the West (SOC 4950/5950)’ at Oklahoma State University, Stillwater, USA during January to May 2011.
- ❖ **Dr. Azhar Alam** was nominated to WB State Drama Academy for his contribution to Theatre and also won a Central Government Fellowship in recognition of his works in the field.
- ❖ **Dr. Madhumita Sen** was nominated coordinator of two regional workshops on Capacity Building of women Managers in education.



### 3.5. CONSULTANCY

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

The Institution has a separate career counselling cell to establish Industry –Institute interface. Some Departments have close association with state based industries, e.g. Alcohol Manufacturing Unit of IFB, Agro and UB Group’s Kalyani breweries, the State Dairy Unit at Haringhata, Nadia, The East India Pharmaceuticals, Kolkata etc. There is no MOU; however, in place with any industry house as far as knowledge/resource sharing is concerned. Accenture, TCS, Chembiotech, City Bank is some companies who have shown interest in recruiting our students.

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

❖ Being members of a state service, the consultancy provided by the teachers are without any revenue generation on the part of the individual or the Institution. These are completely academic in nature: We have three such endeavours to report:

1. Dr. Debaprashad Chatterjee has been chosen to be a part of a US \$589,539 project on Comparing Climate Change Policy Networks (COMPON): Effect of Advocacy Networks and Participation on Climate Change Policy Formation. Dr. Debaprashad Chatterjee, Associate Professor, Department of Sociology is Country Co-Investigator, India Chapter, Country Case Leader – Sony Pellissery, Institute of Rural Management. NSF Grant No. 0827006- 2009-10.
2. In 2011, Prof. Parimal Bhattacharya, Associate Professor of English, did a field survey and wrote an assessment report on Alternative Education Programme being conducted in Mayurbhanj district, Odisha by the non-government organization Sikshasandhan, Bhubaneswar-754258, in collaboration with Welthungerhilfe, Germany.
3. A MOU was signed with Airport Authority of India for training of its employees in Communicative English. Two Part Time teachers Priyanka Saha and Ritabrata Chatterjee were involved.

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

❖ The Institution always encourages consultancy in the purview of Government Service Rules. The Institution has no objection in providing laboratory, logistics, print and e-

resources to its personnel. The question of profit generation did not crop up as yet. In such cases, as per rules, DPI, West Bengal's opinions are binding on us.

- ❖ The teachers regularly participated as speaker in various seminar, radio talk, workshops, counselling session, field visit etc from which the students as well as different communities of the society are highly benefitted.

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

- Comparing Climate Change Policy Networks (COMPON).
- Alternative Education Programmes conducted by the NGOs.
- Imparting training in Communicative English
- No revenue generated so far.
- Resource person in academic Staff College
- Resource person in various appointment boards of Public Service Commission and Universities.
- Acting as subject experts in Ph.D. committee in various Universities.

#### **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?**

Income generation and their utilization are the issues that are addressed as per prevailing government rules. Consultancy services are provided free by the college.

### **3.6 EXTENSION ACTIVITIES AND INSTITUTIONAL SOCIAL RESPONSIBILITY:**

#### **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?**

**Table 3.15: Involvement of Students in ISR**

<b>Programme</b>	<b>2011-12</b>	<b>2012-13</b>	<b>2013-14</b>	<b>2014-15</b>
NSS	Yes	Yes	yes	Yes
SEBCA	No	Yes	Yes	Yes
Iftar	Yes	Yes	Yes	Yes
Garden maintenance	No	No	Yes	Yes
Alumni Meet (ALZOOMAC)	Yes	Yes	Yes	Yes
Parent-Teacher Meet	Yes	Yes	Yes	Yes
Awareness for Sexual Harassment and Gender Study	No	Yes	Yes	Yes
Water Testing Facility	Yes	Yes	yes	Yes
IT training for girls in need	No	No	yes	Yes
Math Skill development	No	Yes	yes	No

In addition to this the college organized the following programmes:

- ✓ Participation in Blood Donation Camp organized by the College

- ✓ Environmental awareness campaigning
- ✓ Participating in the anti-ragging cell
- ✓ Active participation in “Awareness Programme on Women Health and Well Being”
- ✓ Active participation in Youth Parliament
- ✓ Active participation in the awareness programme on gender sensitivity.

❖ **The neighbourhood –connect initiatives include NSS activity.**

❖ **Environment awareness Programmes: SEBCA**

*Schools covered under Campaigns:*

1. Lee Memorial Girls School (Christian Missionary School)
2. Harinavi Girls Balika Vidyalaya, South 24 Parganas
3. Baranagar Mayapith Nari Siksha Ashram; and
4. Kensily Emadidia High school, South 24 Parganas.
5. Lake School for Girls
6. Chowbaga High School

❖ **Biodiversity awareness training programs included –**

- (1) Pugmark analysis for Tiger census.
- (2) Use of Camera Trap in wild life biology.
- (3) Use of GPS and Laser Range finder in wild life biology.

❖ **Other Social Outreach Programme**

1. Water Testing Facility is available for all and sundry of the neighbourhood.
2. Blood Donation camps are attended by people from the neighbourhood.
3. Iftar in Ramadan is organized for anyone who wishes to attend.
4. Health check up facility in Hostel is also availed by the locals.
5. Computer training course for Minority Girls Children
6. Programme on Independence day, Rabindra Jayanti, Teacher day, Reunion, Fresher’s welcome etc go a long way in making the students a good citizens of our country

**3.6.2 What is the Institutional mechanism to track student’s “involvement in various social movements / activities which promote citizenship roles?”**

The NSS unit of the college coordinates and tracks all social connect initiatives. Student’s roles in social movements do reach the college through media, friends, guardians and other means. Meaningful contributions are encouraged and necessary actions are taken if such involvement yields undesirable results. Amity and Harmony of such heterogeneous communities of students is an inspiring cornerstone for us and we

primarily aim at nurturing this.

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

- The stakeholders approach the college in appreciation majority of times. Our demand: admittance ratio is also an indicator. Stakeholders like Peer bodies, Parents, Students, are frequently approached for feedback. Views of Higher Seats of learning where the students go for higher degrees or research are also very helpful in judging ourselves.
- Students come to know about their college through the prospectus which describes the rich heritage of the college and provides important information about the different departments. They are further sensitized through orientation programme. They become aware of, as well as active participants in the culture of the institution through the various programmes held throughout the year.
- Students are encouraged to become part of the Students Union and organize their own democratic platform. It is entirely the responsibility of the students to organize the Students' Election. This helps the students to understand the community, in which they work, identify the needs and problems of the community, get involved in problem solving process and of course develop among themselves a sense of social and civic responsibility.
- Students are also encouraged to organize the college fest. This is used as attaining media for awareness of institutional culture and gives them hands on training in organizational skill.
- Regular parent-teacher meetings are held in all the departments of the college. This enables parents to discuss issues pertaining to their ward with the teachers.
- In this institution we have a method of taking students feedback regarding academics, the library and general environment of the college. This feedback enables us to keep up our standards in every aspect.

### **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:**

Extension and outreach activities are proposed taking views of respective sub-committees in consideration. During last four years the following provisions were short listed:

**Table: 3.16: Allocation for Outreach activities:**

Scheme	Year	Budget Allocation	Actual Expenditure
Water Testing Facility	2010-11 till date	Rs. 1,00,000/-	Rs. 1,00,000/-
SEBCA (Biodiversity initiative) with schoolchildren	2010-11 till date	Rs.60,000/-	Rs.60,000/-
French Course	2010-11 till date	Rs. 1,00,000/-	Rs. 1,00,000/-
Support for SC/ST/ Minority Girls	2010-11,2011-12	Rs.2,50,000/-	Rs.2,50,000/-
Mathematical Skill Development Centre	2010-11,2011-12	Rs.50,000/-	Rs.50,000/-
Blood Donation camp	2013/2015	Rs.15,000/-	Rs.15,000/-

The impact of these programmes has been very positive. These programmes were successfully juxtaposed with curriculum and findings from SEBCA and Water Cell have been presented and published by the students.

### 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?

Particulars of the extension activities:

Organization	Activities
NSS	Campus maintenance, Blood donation camp, Organizing Iftar etc.

### 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?

- Regular Research work has been done on water quality of slums, government hospitals, institutional premises, raw and prepared food in market.
- The schemes for augmenting computer skill of underprivileged girls in the college revealed some interesting observations.

### 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 major extension activity organized by the college for the students is the NSS activities. The broad objectives of the NSS are to enable the students to:

- Maintain the environment inside and outside the campus with the core objectives of achieving: harmony, amity and tranquil among the students in particular and public in general.

- Understand the community in which they work
- Understand themselves in relation to their community
- Identify the needs and problems of the community and involve them in problem solving mind
- Develop among themselves a sense of social and civic responsibilities
- Utilize their knowledge in finding practical solution to individual and community problem
- Acquire leadership qualities and democratic attitude.
- Develop competence required for group living and sharing of responsibilities.
- Develop capacity to meet emergencies and natural disasters.
- The academic learning of the students is complemented by various ISR initiatives. For example, Microbiology (Hons) students undertake regular survey of water, air, food of communities and public places like hospitals. Their observations are reported in larger forum. Zoology (H) students interact with schoolchildren to transfer their knowledge on biodiversity.

**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?**

As a responsible part of the community Maulana Azad College prides itself in being a centre to which the neighbouring community can turn to, not only for high quality education but also for other developmental needs:

- People from the locality are regular visitors to the college as the college houses a Mosque. This relationship has cordially co-existed since the establishment of the college. The worshipers are in cordial contact of the college.
- Computer training programme for Minority girl's students was organized by the Institution to help them acquire computer skill.
- Programme on current topics of interest on the occasion of Science Day which is celebrated every year on 28<sup>th</sup> February. Students from nearby schools are invited to attend these programmes and to interact with the students of our college.

**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.**

- Children of four Schools are being groomed by our Biodiversity Awareness Initiative: These are :

1. Lee Memorial Girls School (Christian Missionary School)
2. Harinavi Girls Balika Vidyalaya, South 24 Parganas
3. Baranagar Mayapith Nari Siksha Ashram; and
4. Kensily Emadidia High school, South 24 Parganas.
5. Lake School for Girls
6. Chowbaga High School

- **Biodiversity awareness training programs for them includes:**

- (1) Pugmark analysis for Tiger census.
- (2) Use of Camera Trap in wild life biology.
- (3) Use of GPS and Laser Range finder in wild life biology.

- The students of our institution are involved in interactive sessions and other outreach activities with several industries in and around Kolkata. On these visits, the students observe the actual production procedure of various industrial products and interact with the production management staff. The students are highly enlightened and hugely benefited from these sessions.

### **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.**

- Awards were won by participating students in National Conferences as activity based posters were nominated for best presentations.
  1. Students of third year (2013-14) batch under the guidance of two faculty members won the first prize in the poster presentation session in the UGC sponsored National level Seminar on “Prospect of Biotechnology in Rural Bengal” at Uluberia College on 17<sup>th</sup> and 18<sup>th</sup> January, 2014.
  2. Students of 3<sup>rd</sup> year (2013-14 batch) under the guidance of two faculties of the department won the third prize in poster presentation session on the paper entitled ‘Bioremediation of Methyl Parathion by Bacterial strains isolated from fresh vegetables’ at the National seminar on Natural Resources and Heritage conservation issues in India, at Seminar Hall, West Bengal Pollution Control Board, Paribesh Bhavan, Salt Lake, Kolkata organized by Social Environmental and Biological Association in collaboration with Zoological Survey of India, September 8, 2013
- **Contributions:**
  1. Outreach programmes conducted under the SEBCA initiative generated huge response among the schoolchildren. This is one such unique activity where young minds get exposed to real life conservation methodologies and strategies.

2. Water Testing Lab comes to the benefit of all the people of the locality.
3. IT Training programmes that we organize for underprivileged girls generated good response among the target group.

### 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 institution collaborates and interacts with different research laboratories, institutes and industry for research activities. The details are given in Table 3.1.3.

#### **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.**

- Please refer to the table 3.1.3 for details of collaborative works.
- MOUs were signed with:
  - a) Airport Authority of India for imparting training of its employees in Communicative English.
  - b) President of India, acting through Department of Biotechnology, Ministry of Science and Technology, Government of India, New Delhi,
  - c) Memorandum of Understanding signed between Dr. Pradip Kumar Kar (WBES) and Provost, University of Connecticut.
  - d) Memorandum of Understanding signed between Dr. Pradip Kumar Kar and Prof. Tomas Scholz.
  - e) Memorandum of understanding between Maulana Azad College & Department of Biotechnology, Govt of India for DBT Star College Programme

#### **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.**

No asset of physical form was added. Technology transfer, however, in more than one area of research was remarkable. This support enabled us to obtain two patents to the credit of Prof. S. Dasgupta, Department of Zoology.



**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**

Please refer to Table 3.8 for a detailed list of visitors to the college

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

MOUs were signed with:

- Airport Authority of India for imparting training of its employees in Communicative English
- Memorandum of Understanding between Department of Biotechnology, Ministry of Science and Technology, Government of India, New Delhi & Maulana Azad College for DBT Star College Programme
- ❖ Memorandum of Understanding signed between Dr. Pradip Kumar Kar (WBES) and Provost, University of Connecticut.
- ❖ Memorandum of Understanding signed between Dr. Pradip Kumar Kar and Prof. Tomas Scholz.

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

- Individual teachers & their reputation as researchers engaged in exchange of academic dissemination of information and set about imitating meetings and other formalities to bring about linkages and collaboration.
- Many of the faculty had been collaborating with institutions of higher learning and research even before they joined the college. So these collaborations could easily result into joint projects, laboratory sharing and technology sharing.
- The institution has a body in place those liaisons on linkage establishment and implementation. The college responds to all available opportunities to strengthen its resources. Our response to invited proposals by UGC, DBT, DST etc have yielded positive results. Through these bodies, institute now has eminent academicians as **Advisors**. The following four academicians are attached to this college in their capacity as DBT appointed Advisors to oversee the implementation of pledged programmes:

1. Dr. Debabrata Das, Professor ,Department of Biotechnology,IIT Kharagpur

2. Dr Shamila Sengupta, Professor, National Institute of Biomedical Genomics, Kalyani, 24 Parganas(North)
3. Dr. Subhas Bhattacharyya, Professor, Chemistry Department, Jadavpur University
4. Dr. Timir B.Jha, Professor, Botany Department formerly of Presidency University and now of Barasat Government College

### **3.7.7. Collaborations**

Collaborations have been forged out with international/national institutions after concerted effort by the faculty members.

#### **Any other relevant information regarding Research, Consultancy and Extension which the college would like to include:**

- Invite Resource Persons from various Research Institutions to deliver Special Lectures in modern biology oriented topics.
- We planned to continue UGC sponsored training programme for aspirants of NET/SLET/GATE among the final year PG students.
- We propose to conduct Career Guidance Programme for final year of UG & PG students.
- We planned to go for Industrial Visit (Sericulture, Fishery etc) during the academic year 2013-2014.
- We plan to continue the environmental awareness programme on Biodiversity (SEBCA)

## 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?

Being a Government Institution the College is solely guided by the policy of the Government of West Bengal. The Institution aims at providing all possible infrastructural, instrumental and logistic support to the students by-

- Planning for sustainable expansion so as to ensure academic growth and allied activity promotion to improve the existing facilities and new needs.
- Continuously upgrading the laboratories.
- Upgrading the infrastructural facilities both in college and in the hostel.
- Harnessing ICT to a threshold level
- Adding new titles and volumes to the library every year to augment the need of the students and the teachers.
- Mobilizing resources from UGC, DST and DBT by successful implementation of benchmarking requirements of these bodies.
- Keeping the student: teacher ratio low.

#### 4.1.2 Detail the facilities available for:

##### a) Curricular and co-curricular activities:

- **Classrooms:** All the classrooms are equipped with black/white boards. Presently there are 36 classrooms. The College offers technology enabled learning spaces which include multiple classrooms with LCD projectors and computers.
- **Seminar Halls:** Two large classrooms are equipped with microphone and computer connectivity where departmental seminars are held. The College hall (*Raza Washat Ali Memorial Hall*) is used for national/international seminars or multi departmental seminars.
- **Tutorial spaces:** The classrooms are used for tutorial purposes during slack session/hours.
- **Laboratories:** The College has 22 modern laboratories for the PG, UG (Honours) and UG (General) students. In addition to that, 7 well equipped Research Laboratories are there.

- **Networking & Wi-Fi Connectivity:** All the departments of the College are well equipped with computers having internet facilities. The College Office and the Library are also computerized. E-journals are available in the College Library.
- **Plant tissue culture laboratory:** One in the Botany Department.
- **Animal tissue culture laboratory:** One in the Zoology Department.
- **Herbarium:** One in the Botany Department.
- **Animal House:** Maintained by Zoology Department.
- **Museums/Display:** The Zoology Department has been maintaining three display units in their Department premises.
- **Instrument facilities for teaching, learning and research:** The College has extremely good instrument facility for both students and researchers. The laboratories of science departments are equipped with several high precision instruments such as- UV-Visible spectrophotometers, Freeze drier, Carl Zeiss Phase Contrast Microscope, Inverted microscope, Hermele Cold Centrifuge, Fluorimeter (P E LS 55), Semi-micro balances, Rotary evaporator, FT-IR spectrometer, Laminar air flow, Thermal cycler, Susceptibility measurement: Quinck's method and Gouy's method, 1 GHz Spectrum Analyser with tracking Generator and many more.
- **Library Facility:** The College Library (**Central Library**) has a rich collection of about 90,000 (ninety thousand) books and journals. These include some rare and priceless books and journals. On an average, about 1000 new books are added every year. It has digital accession unit maintained with KOHA software and it has LAN searching and LAN borrowing facility. All corners of the Library are covered under CCTV surveillance by 16 cameras. Each department has its own Departmental (Seminar) Library too.
- **Language Laboratory:** The College has a Language Laboratory, which runs under the supervision of English Department, having audio, video and interactive console facility. The laboratory has 25 sitting capacity.
- **Medicinal Plant Garden:** The Botany department has been maintaining and augmenting a Medicinal Plant Garden. A lay out and beds of the plants sown have been shown below.

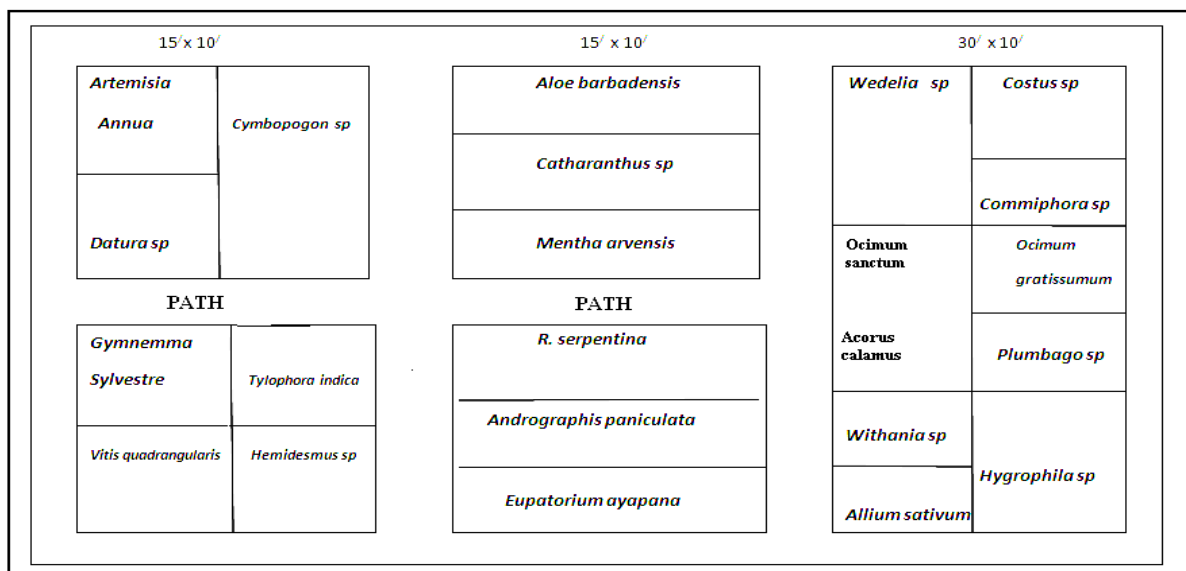


Figure 4.1: Medicinal Plant Garden

### b) Extra-curricular activities:

- **Sports:** A large playground is available located in the Gorachand Dutta Lane. In addition, University Ground, which is close by, is made available to us in need. Provisions for all major indoor and outdoor games are there. Annual sports are held every year. Prizes and trophies are awarded to the successful participants in the annual sports meet. Interested students who perform well in sports are sent each year as participants in the Inter College and Inter University Sports Meet.
- **Outdoor and Indoor Games:** Provisions for outdoor games like Soccer, Cricket, Athletics and indoor games like badminton, table-tennis, Carom, Chess are there.
- **Common Room:** The College has a Boys' Common Room, situated in the first floor and a Girls' Common Room, situated in the second floor of the main Building.
- **Gymnasium:** Two gymnasiums are situated each in the boys' and girls' common room, both are furnished with modern fitness equipments.
- **College Hall:** The College has *Raza Washat Ali Memorial Hall*, which is a heritage construction. It has a sitting capacity of nearly 200 and used for the national/international seminars and all cultural activities.
- **Health and Hygiene:** Each student is a member of Students' Health Home where modern treatment facility is available to the students either free of cost or with minimum cost. Under CPE assistance, a doctor was engaged for the boarders, who would visit at timely intervals.
- **Cultural Activities:** The students along with the faculty members and college staff arrange several cultural programs throughout the years , especially the following: -

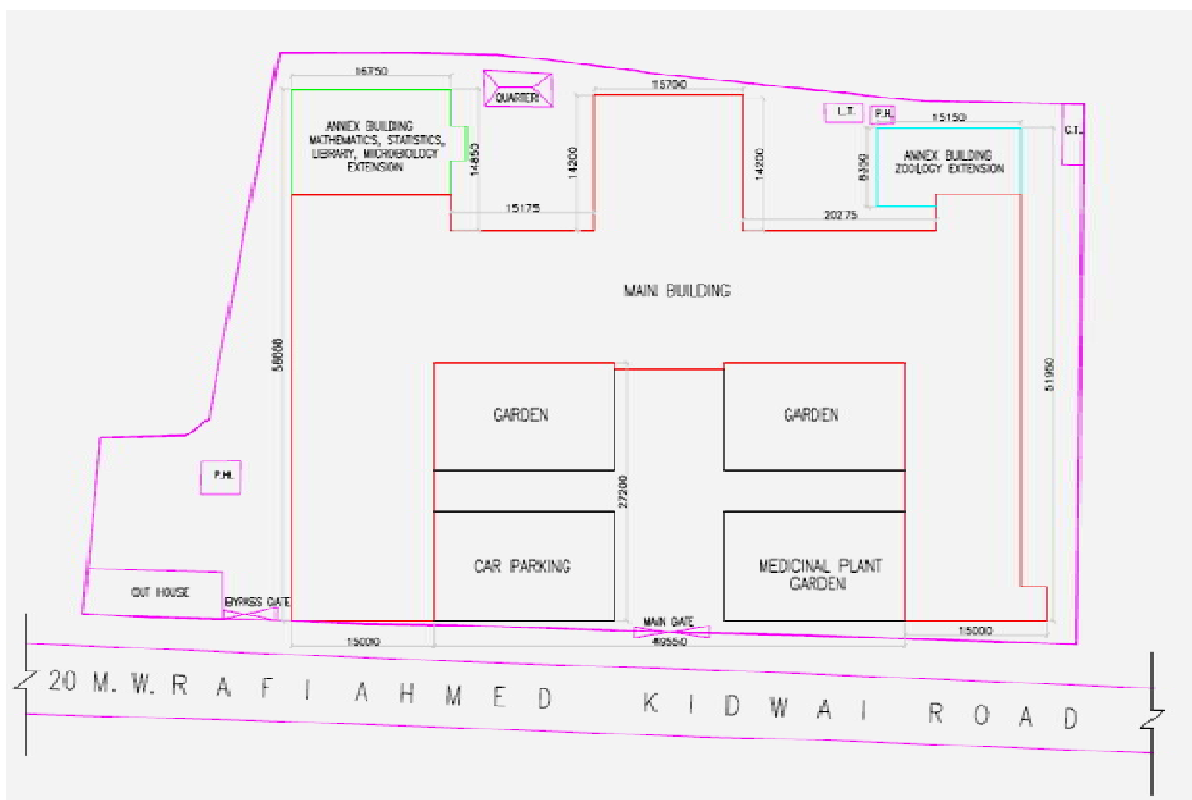
- ✓ Saraswati Puja
- ✓ Foundation Day:- 9<sup>th</sup> December each year.
- ✓ Maulana Azad's Birth anniversary: - 9<sup>th</sup> November each year.
- ✓ Rabindra Jayanti:- 25<sup>th</sup> Bhaishakh each year
- ✓ Milad-un Nabi: - The Prophet's Birth Anniversary
- ✓ Iftar on Ramadan
- ✓ Fresher's Welcome
- ✓ Annual Fest- *Istalazza*
- ✓ Departmental Fresher's Day
- ✓ *Alzoomac*- Annual Alumni day of Zoology department
- ✓ *Micromac*- Annual Alumni day of Microbiology department
- ✓ *Quiz.fest*- Inter college Quizzing contest
- ✓ College level Mock Parliament contest
- ✓ Drama: Teachers, non-teaching staff and student participants are associated with drama groups, drama workshops in state and national level.

**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).**

The college authority always urge upon optimization of available infrastructure to the best possible way. The following are some of the major points through which these are ensured:

- All the classrooms are optimally used by different departments for taking classes according to the scheduled routine. On working days classes are conducted in all the rooms from 10.15 a.m. to 5.15 p.m. UGC funded Remedial Coaching classes are also taken by different departments primarily during the slack session/ slack hour. After the scheduled class hour, some of the classrooms are used for taking classes for UGC funded Entry in Services scheme.
- Library is kept open during summer recess and examination days in addition to working days.
- Instruments are available in all laboratory based Departments and are also used by the students and faculty for research and project work. Funds are allocated every year to the Laboratory based departments for augmenting laboratory equipments based on departmental requirements.

- Different Government and Non-Government examinations are held in the College buildings on holidays and Sundays.
- IGNOU classes are conducted on Saturday (after the regular college hour) and on Sunday of every week using the college infrastructural facilities.
- Seminars, Memorial lectures and Cultural programmes are held in the Raza Washat Ali Memorial Hall.
- The College always takes initiatives for the augmentation of the infrastructure of the Institution to keep pace with academic growth. Each year the departmental committees put forward the budget proposals at the beginning of an academic session on both recurring and non-recurring heads. The research sub-committee and the purchase committee make a comprehensive proposal to the government and to the central funding authorities like UGC, DST, DBT, National Archives etc. The college has MOUs with DST under FIST assistance programme and DBT under Star-College programme. It is seen that the college's plan proposals and expenditures conform to the different benchmarking protocols of all funding authorities.
- Books and journals are purchased for each department every year. Different furniture, AC machines, water purifiers, office equipments, refrigerators and computer peripherals are added to the existing infrastructural facilities.



**Figure 4.2: Master Plan of the College Premises**

Table 4.1: Facilities Developed:

Year	Facility	Beneficiary Department/Wing	Sanctioning Authority	Grant Utilized
2009-10	Repair and renovation work in admission room and outside shade in the ground floor.	College	State Grant	Rs. 3,40,412/-
	Renovation and repair work of Student and staff canteen South side and front corridors adjacent to mosque North side and front corridors adjacent to Physics department.	College	State Grant	Rs. 4,07,659/-
	Electrical Installation of split type air condition machine in the admission room E.I. works including new fans and fittings in the new M.A. class room at 1 <sup>st</sup> floor gallery. E.I. works for class room on roof-top floor. E.I. works for compound light at the rare side and the front side.	College	State Grant	Rs. 2,65,421/-
	Emergent repair and provision of new gas and water hire to Physics pass lab. Special repair of auditorium hall, renovation	College	State Grant	Rs. 8,88,277/-



Year	Facility	Beneficiary Department/Wing	Sanctioning Authority	Grant Utilized
	of auditorium gallery. Renovation work over west side corridor. Renovation of Principal chamber and Office. Renovation of lobby of statue of Maulana Azad.			
	Repair and renovation works at new Botany Hons. Lab.	College	State	Rs. 94,724/-
	Electrical: Installation of A.C. Machine and related E.I. works at Library	College	State	Rs. 2,50,000/-
	Day to day maintenance of the existing college garden	College	State	Rs. 1,14,541/-
	Urgent electrical works in the lab. Of P.G. Department	College	State	Rs. 59,756/-
	Renovation and repair work at admission room and outside shade in the ground floor	College	State	Rs. 2,00,000/-
	Payment of : DELNET Purchase of Urdu Books LAN connection for Library	College	State	Rs. 23,200/-
	Emergent repair and provision of new gas and	College	State	Rs. 5,72,290/-

Year	Facility	Beneficiary Department/Wing	Sanctioning Authority	Grant Utilized
	water line to Physics pass lab. Special repair of auditorium hall. Renovation of auditorium gallery. Renovation work over west side corridor. Renovation of Principal chamber and Office Renovation of lobby of statue of Maulana Azad.			
<b>2010-11</b>	Ramp for differently able	College building	UGC merged Grant	Rs. 5,00,000/-
	PWD work to upgrade the computer lab	Physics Department	BSR Grant	Rs.5,00,000/-
	PWD work to upgrade the microbiology lab	Microbiology	BSR Grant	Rs. 5,00,000/-
	PWD work: Strengthening of infrastructure	Chemistry	BSR Grant	Rs. 4,30,000/-
	Laboratory tables, museum racks. Restoration of staff toilet in Zoology & Laboratory	Zoology	BSR Grant	Rs. 5,09,365/-
	Flooring, conference table, computer table, computer Laboratory, Painting, Renovation of class rooms with working tables	Mathematics and Statistics	BSR Grant	Rs. 5,83,165/-

Year	Facility	Beneficiary Department/Wing	Sanctioning Authority	Grant Utilized
	Installation of new Computers with printers, UPS etc	Mathematics and Statistics	BSR Grant	Rs.3,52,750/-
	A.C. machines in Instrument Rooms	Chemistry	BSR Grant	Rs.69,865/-
	Construction of Tissue Culture Laboratory	Botany	BSR Grant	Rs.500,000/-
<b>2011-12</b>	D.G.20KV Generator CLYN-000215	College Building	State Grant (Additional grant)	Rs.7,27,428/-
	Infrastructure and others (Highlights are given below)	All Departments	UGC-CPE	Rs.49,96,143/
<b>2012-13</b>	Construction of animal house of Zoology dept.	Zoology	State Grant	Rs. 4,66,142/-
	Construction of girl's hostel	College	State Grant	Rs. 1,98,000/-
	Special repair works to the North-West corner at club house	College	State Grant	Rs. 84,645/-
	Electrical works of Annex Building of Baker Govt. Hostel	College	State Grant	Rs. 46,53,371/-
	Construction of Annex Building of Baker Govt. Hostel	College	State Grant	Rs. 40,00,000/-
	E.I. work for system of power supply of MAC- installation of lighting and A.C load for power system	College	State Grant	Rs. 5,51,802/-

Year	Facility	Beneficiary Department/Wing	Sanctioning Authority	Grant Utilized
	Construction of Annex Building of Baker Govt. Hostel	College	State Grant	Rs. 12,00,000/-
	Construction of girl's hostel	College	State Grant	Rs. 1,98,000/-
	UGC-CPE Assistance	All Departments	UGC-CPE	Rs.33,96,320/-
<b>2013-14</b>	Various construction, repair and renovation works	College	State Grant	Rs. 11,00,000/-
	1. Water proofing treatment with APP modified Bituminous Membrane over the roof of main building and IGNOU building	College	State Grant	Rs. 10,00,000/-
	2. Fitting and fixing aluminium sliding windows at the class rooms and labs of Zoology dept. along with renovation of interior decoration(R&B)			
	3. Fortification work of north east side medicinal plant garden of Botany dept.			
	Special repair for (R&B) works-renovation of student's union room, common room (boy's), office toilet	College	State Grant	Rs. 4,06,755/-

Year	Facility	Beneficiary Department/Wing	Sanctioning Authority	Grant Utilized
2014-15	Construction of Annexed Building adding 200 new seats	Boys' Hostel PWD Work, College	State Grant	Rs. 33,00,000/-
	Constructional up gradation of laboratory in Microbiology department	Microbiology department	State Grant	Rs. 1,00,000/-
	Electrical installation works for proposed girl's hostel	College	State Grant	Rs. 10,00,000/-
	Renovation and augmentation of distribution wiring including campus lighting of club house	College	State Grant	Rs. 2,88,812/-
	Construction of proposed girl's hostel and renovation, modernization to the E.I. work of different classes and laboratories of Zoology, Physics, Microbiology, Mathematics, Chemistry dept. and different staff quarter, compound light etc.	College	State Grant and UGC	Rs.1,78,00,000/-

- The PG Department of English have utilized a UGC (XI<sup>th</sup> Plan) –College development grant of Rs. 3, 15,000/- for the up gradation of the PG department in terms of Books & Journals, Equipment and other.

The grant allocation is as follows-

Books & Journals	Equipments	Field Work/Study Tours	Any Other	Total
Rs. 90,000/-	Rs. 90,000/-	Rs. 45,000/-	Rs. 90,000/-	Rs. 3,15,000/-

**FACILITIES DEVELOPED UNDER CPE****A. Improvement of laboratories:**

- Procurement of Orbital Incubator Shaker, four- digit Sartorius Balance, pH Meter BOD incubator- shaker, Digitally controlled oven, Insect preservation facility in Postgraduate Department of Zoology
- Procurement of an imported Protein Purification system, BOD incubator shaker, Four- digit Mettler Balance etc. By Microbiology Department
- Newly upgraded computer facility and software were added to the Mathematics Department.
- Procurement of imported rare chemicals (Sigma-Aldrich) for high-end molecular biology practical and research in Microbiology, Zoology and Chemistry departments.
- Sonicator, Digitally controlled water bath, magnetic stirrer with hot plate, digital melting point bath, chemicals for Department of Chemistry
- Cathode Ray Oscilloscope, and computers for Physics Department
- Gel Electrophoresis System for Nucleic acid and Protein in Botany Department
- Computers and software for Statistics Department.

**B. Improvement of facilities in library:**

- New titles worth Rs. 4.0 lakh have been purchased for 21 departments.
- CCTV has been set up in the central library to facilitate the Open Access System.
- Manuscript preservation facility developed in Central Library.
- Improvement of open access facility of Library: JSTOR connectivity through UGC-INFONET service for different e- journals. Beside that INFLIBNET & DELNET service has been made available to all users. LIBSYS software was procured to upgrade the data management system.

**C. Innovations Introduced:**

- Central Instrumentation facility for Animal Tissue Culture
- E-class room has been set up in many Departments.
- Audio-visual facility has been introduced in the Department of English & Urdu respectively.
- CCTV has been installed in Boys' Hostel to facilitate better monitoring.
- Complete overhauling of student Database to facilitate admission/ monitoring/administration.
- Semester system of PG examination has been introduced.

- Two separate tissue culture laboratories are being set up to facilitate new areas of research in plant & animal sciences respectively.
- Water testing facility in Microbiology Department has been established
- An anti- ragging cell in Boys' Hostel has been established and 24- hour surveillance ensured.
- Improvement of IT- enabled admission and student support system is under way. For this purpose, training of teachers and office staff has been completed.
- Institutional Prizes for academic and all –round excellence under the scheme have been instituted
- Medicinal Plant Garden developed
- The Department of Zoology introduced an environment awareness program called SEBCA (School of Environmental, Biodiversity and Conservation Awareness).
- Journal of the PG Department of English with ISSN 22498737 was published first in 2011 and then in 2012, 2013 and 2015 respectively.
- “MAC Journal of Basic and Applied Sciences” (issues in 2013 and 2015) and “MAC Academic Journal of Languages and Social Sciences” (first issue in 2015).
- Basic computer skill development programme for minority, SC & ST students was introduced.
- Water Quality Analysis Centre was established.
- French Study Centre was established.
- Maulana Azad College has created a Cell each for the Prevention of Sexual Harassment in the Campus and an anti ragging cell.

## **FACILITIES DEVELOPED UNDER DBT STAR COLLEGE PROGRAM**

### **Improvement of Laboratories:**

- Procurement of 4° cabinet, DNA amplifier(PCR), Complete Gel electrophoresis unit with Blotter Computer, LCD, Colour Printer, Scanner facility in Postgraduate Department of Zoology
- Procurement of Submarine & Vertical Gel Unit, Gel Viewer, Gel drier, Power pack electrophoresis unit, Cryocan, Soxhlet extraction, UV trans- illuminator & TLC viewer, -20 °C bench-top orbital Procurement of shaker & 37 °C incubator, pH meter facility in Department of Botany.
- Procurement of GELDOC, Spectrophotometer, and Ice flakes machine, Laminar air flow, Refrigerator facility in Department of Microbiology.

- Procurement of Ultra High Vacuum pump, Temp controlled digital water bath, Digital temperature controlled oil bath, SNS vacuum chamber, SNS Teflon Reactor, SNS microprocessor electric heating oven, Carbon Steel cylinder for Argon with argon gas, Moisture trap, gas regulator, oxy-OT1-2trap etc, Water distillation unit, Digital top pan balance in Department of Chemistry.
- Procurement of True RMS A.C. mill voltmeter, 1GHZ spectrum analyzer with track generator, 100 MHZ digital storage oscilloscope with all accessories, 100 MHZ digital dual channel storage oscilloscope, Electromagnets, Travelling microscope, Digital Gauss meter, Balance, power supply, Plauck's constant with vacuum nanometer/picometer, Lase expt. Equipment probe, Generator model function, Plank's Constant Exp in Department of Physics.
- Procurement of fine chemicals, imported chemicals and glass goods in Departments worth Rs. 10 lakh.

#### **FACILITIES DEVELOPED UNDER DST FIST PROGRAM**

##### *The following instruments are procured-*

GE Akta Prime Chromatography, HERMLE Cold Centrifuge, Sartorius Balance, Gel Doc System, Phase contrast microscope, Metlar semi microbalance, Metlar Analytical Balance, 5MHz Function Generator Model SM 5030-5, Sc. Prog 4.5 Bench top (DMM Model 5015), Sc Standard 4.5 Bench top DMM Model SM 5011A, Tektronix Oscilloscopes with delayed SM203M, Sc 60MH3 analogdigital Oscilloscope SM 1060, 40MHz Tektronix digital Oscilloscope TDS1001C EDU, True RMS A.C. Mv Model ACM103, Resistivity of Semiconductor by four probe methods (DEP 02), Resistivity of Semiconductor by four probe methods (DEP 03) Regulated power supply Model PS12, 12V

##### **Details of Infrastructure developed:**

- Central Instrumental facility was set up at Zoology to cater the need of PG students, other UG science students and Research scholars.
- A separate Network Centre was set up for regular use of faculty members of various departments and Research scholars.
- Software up gradation in Mathematics and Statistic Department
- Procurement of equipment for Physics, Chemistry & Microbiology Departments

##### **Details of Networking:**

A separate Network Centre which involves high security dedicated Server for connecting to International inventories like JSTOR. The library is DELNET/ INFLIBNET connected



for regular use of faculty members of various departments, both UG and PG students and Research scholars. 145 termini are connected to a central IBM X 3300 sever. The connection is BSNL FTTH Fibre Broadband unlimited FIBRO ULD plan type.

All students of PG and UG, can avail of the internet facility for networking, LAN based library searching, borrowing services.

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

- The institution has utilized funds under Merged HESPN grant under UGC XI plan assistance scheme to build a Ramp for these students.
- The college has facilities for students with walking disabilities.
- The classrooms are usually arranged on the ground floor.
- Construction of two lifts has been proposed.

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

##### **HOSTEL FACILITY**

###### ***a) Baker Boys' Hostel:***

In 1910, a fascinating two-storied building consisting of 185 rooms with lush green lawn came into existence as a Hostel for the *Calcutta Madrasah* students and was named after **Sir Edward Norman Baker**, Lieutenant Governor of Bengal. At that time it was placed under the administrative control of the Principal, *Calcutta Madrasah*. After the establishment of the *Islamia College* (now Maulana Azad College) in 1926, the privilege of residence was extended to the students of *Islamia College* coming mufussil and adjoining areas. The government in 1929 transferred its control to the Principal of *Islamia College* (Maulana Azad College) and accorded permission to accept students from other colleges affiliated to Calcutta University. In 1971, it was further extended to accommodate 200 students.

During the long span of 98 years from 1910 to 2008, the hostel has greatly contributed in molding the shape of nation in one way or other. This Century old Hostel is proud to have provided accommodation to innumerable students who have spread far and wide and contributed richly to all walks of life. Among them the illustrious names of Bango-Bandhu, Sk. Mujibur Rahman, Father of the Nation of Bangladesh first come to our mind. Several other important personalities of the faith Islam had been boarders here.

In recent days demand for education has increased very sharply among the Muslims and students from all districts of West Bengal and neighboring states are rushing for

admission in colleges of Kolkata. Baker Govt. Hostel increased the accommodation from 185 to 360 in 2004 but the situation did not change much. The Government of Higher Education in 2011 sanctioned another building and Bangabandhu *Smarak Bhabana* was built with 200 more seats.

- *Recreational facilities:* TV, Indoor Games,
- *Computer facilities:* 2 numbers
- *Facilities for medical emergencies:* Under CPE assistance, a doctor was engaged for the boarders, who would visit at timely intervals and first aid facilities is available
- *Library facilities:* 150 books
- *Residential facilities for Staff:* 12
- *Safe drinking water facilities:* 2 units

Followings are the details of the Hostel –

■ Number of buildings	: 2 (G+2 Old building; G+4 New building)
■ Number of blocks	: 6 in each
■ No. of rooms	: 252
■ No. of boarders	: 600
■ Facilities	
– Dining hall	: 02
– Prayer Hall	: 01
– Medical Room	: 01
– CC TV installation	: 24
– Number of washrooms	: 6
– Visitor's room	: 1
– Security	: Ex-Army men

**b) Girls' Hostel:** Sanctioned and work is in progress

➤ Proposed Number of Buildings:	1 (work in Progress)
➤ Proposed number of blocks:	8
➤ Proposed no. of rooms:	20
➤ Proposed no. of seats	80

#### **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 College offers first-aid facility to the students. Each student is a member of Students' Health Home where modern treatment facility is available to the students either free of cost or with minimum cost. Under CPE assistance, a doctor was engaged for the boarders, who would visit at timely intervals.

**Provision of addressing the Emergencies:** As the college is at 5 minutes distance from

the largest and oldest Medical College of the state, The Calcutta Medical College and Hospital, we utilize the services as and when required.

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

- The College has an Internal Quality Assurance Cell (IQAC) comprising of the Principal, some senior faculty members, and few external members. A separate room is allotted to the IQAC of the College.

*Please See Section 6.5 for details of IQAC.*

- There are two Common Rooms (1 for boys and 1 for girls) for the students where they can avail indoor games like Carom, Chess and Table tennis. There is a badminton court where the students often play during leisure. The College also houses two well equipped Gymnasiums (situated inside the common rooms) with bicycle, twister, chest expander, standing cycle and treadmill.
- Subsidized Students’ Canteen, a Staff canteen and purified drinking water facilities are available. The College buildings are equipped with several water purifiers (11 Number of water purifier cum cooler).

- |  |   |
|--|---|
| ■ <b>Grievance Redressal unit:</b>             | Assigned office and committee           |
| ■ <b>Women’s Cell :</b>                        | Functions from coordinator’s office     |
| ■ <b>Counselling and Career guidance Cell:</b> | Functions from coordinator’s office     |
| ■ <b>Placement Unit :</b>                      | Functions from coordinator’s office     |
| ■ <b>Recreational spaces for staff :</b>       | yes                                     |
| ■ <b>Safe drinking water facility :</b>        | 11 Number of water purifier cum coolers |
| ■ <b>Auditorium :</b>                          | 01 (one), Raza Washat Ali Memorial Hall |

**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?**

Advisory Committee for Library:

1. Shri. Surya Mondal (Librarian), Joint Convenor
2. Prof. Jamil Ahmed, Joint Convenor
3. Prof. Suparna Mitra
4. Prof. Sangamitra Dasgupta
5. Prof. Anuradha Sen






6. Prof. Iftekhar Ahmed
7. Prof. Nilanjan Chakarborty
8. Prof. J. S. Alquaderi

The Library Advisory Committee is providing guidance and required support towards the sustainable development of the college library. The committee formulates policies and principles by which the library is administered. They advise the authorities on implementation of policies for improvement and expansion. They review the progress of library and its services and also monitor facilities and order in Reading Room. The committee initiates and implements student- centric additions to the existing facilities.

#### **Significant Initiatives implemented in the Library:**

- ✓ Air- conditioning of the Reading Room
- ✓ Air conditioning of the archived materials
- ✓ Display of rare books/manuscripts
- ✓ Display of new arrivals
- ✓ Digitized accession
- ✓ Digitized searching, borrowing and lending
- ✓ Networked computers:
- ✓ Open Access Facility
- ✓ Installed CC TV monitoring
- ✓ DELNET-INFLIBNET connectivity
- ✓ E-inventories- JSTOR
- ✓ Lamination facility
- ✓ Microphotography unit
- ✓ Pest control AMC:
- ✓ Reprography facility:
- ✓ Intercom

#### **4.2.2 Provide details of the following:**

-  **Total area of the library** : 3600 Sq. Ft. (334.8 Sq. Mts.)
-  **Total seating capacity** : 60
-  **Working hours** : 10.00 am – 5 pm (*Monday to Friday*)  
10.00 am – 2.00 pm (*Saturday*)  
12.00 noon – 5 pm (*During vacations*)
-  **Number of Books** : 89,900 Nos.
-  **Number of Journals** : 15 Nos.

- ✚ **Number of Periodical** : 11 Nos.
- ✚ **Number of News Papers** : 1 (English) + 1 (Bengali) + 1 (Urdu)
- ✚ **Computers** : 19 numbers

#### 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.

Library Grants are distributed among the departments in Purchase Committee meetings. Requirements are weighed on the basis demand and availability of books. Funds are distributed and departmental Heads place orders endorsed by the Librarian and the Principal. Books are accessed centrally in the Library. Seminar Libraries issue reference books from the Central Library. Complete inventory is made available to the students and teachers on searching tools available with the Library. Purchases are equally weighted for Texts and References.

#### Allotments for Library for books:

Year	State Grant	UGC grant	UGC/CPE	DST/FIST
2011-12	Rs. 5,50,000	-	-	-
2012-13	Rs.3,50,000	-	Rs.2,29,246/-	Rs.1,50,000/-
2013-14	Rs. 1,80,000	Rs. 2,37,500	-	-
2014-15	Rs. 1,78,000	Rs. 69,500	-	-

Library Holdings	2011-12		2012-13		2013-14		2014-15	
	No.	Total Cost (Rs.)	No.	Total Cost (Rs.)	No.	Total Cost (Rs.)	No.	Total Cost (Rs.)
Text /Reference Books	910	550000/-	1796	729246/-	1017	417500/-	693	247500/-
Journals/ Periodicals	29	25,000/-	29	25,000/-	29	25,000/-	29	25,000/-
E-Resources	11	55,000/-	11	55,000/-	11	55,000/-	11	55,000/-
Computers	3	120000/-	6	240000/-	1	40000/-	1	40000/-

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

- ✚ **LAN based Public Access Catalogue** : Yes
- ✚ **Electronic Resource Management package for e-journals** : DELNET
- ✚ **Federated searching tools** : JSTOR
- ✚ **Library Website** : [www.maulanaazadcollege.in/ library](http://www.maulanaazadcollege.in/library)
- ✚ **International Library** : Access through JSTOR inventory

✚ In-house/remote access to e-publications	: Yes
✚ Library automation	: KOHA
✚ Total number of computers for public access	: 10 Nos
✚ Total numbers of printers for public access	: 1 No
✚ Total No of Photocopy machine	: 1No
✚ Internet bandwidth/ speed	: 1 Gbps
✚ Institutional Repository	: Yes
✚ Content management system for e-learning	: DELNET
✚ Participation in Resource sharing networks/consortia	: INFLIBNET
✚ Soft Copy of college publications	: Yes

#### 4.2.5 Provide details on the following items:

✚ Average number of walk-ins	: Average 125-150 Persons per Day
✚ Average number of books issued	: 30 per Day
✚ Average number of books Returned	: 20 per Day
✚ Average number of books Renewed	: 25 per Day
✚ Ratio of library books to students enrolled	: 45 : 1
✚ Average number of books added during last three years	: 1650
✚ Average number of log into OPAC	: 15 Persons per Day (Institutional access only)
✚ Average number of login to e-resources	: 20 persons per day
✚ Average number of e-resources downloaded	: 10 per Day
✚ Average number of e-resources printed	: 2 per Day
✚ Number of information literacy trainings organized	: One ( for the librarian)
✚ Details of “weed out” of books	: Damage Books are not disposed off but restored as far as practicable
✚ Book issued per candidate in PG departments	: Zoology: one book for two weeks Urdu: Five books for two weeks English: Two books for two weeks

#### 4.2.6 Give details of the specialized services provided by the library:

- Archival materials include Arabic, Persian, Urdu rare books and manuscripts
- Open Access searching facility  
Dual borrowing system; from departmental library and from central library respectively. So
- each student has access to at least 4 borrowed books from the college.
- ILL (Inter Library Loan Service) : No
- Information deployment and notification : Yes
- Download : 10 Computer systems available for download
- Printing : Yes
- Reading list/ Bibliography compilation : Online tracking
- In-house/remote access to e-resources : Yes
- User Orientation and awareness :
- Study materials available for Civil services, Knowledge inventories like

Encyclopaedia Britannica and a host of other collections. Valued resources for research and referencing like the Bergy's Manual of Determinative Bacteriology (2<sup>nd</sup> Edn.; all volumes) Manual of Clinical Bacteriology, APHA standard Methods etc are available with us.

- |                                     |   |  |
|-------------------------------------|---|--|
| – Assistance in searching Databases | : | DELNET – Software Database Searching For Books |
| – INFLIBNET facilities              | : | Available                                      |

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

Staff support in educating students in the soft-wares, in searching, in delivering requisitioned materials, in reading rooms. Four (4) members of the staff are available for their assistance

- |   |   |     |
|---|---|-----|
| 1. Water Facility   | : | Yes |
| 2. Help desk to take reference books                      | : | Yes |
| 3. Helpdesk to search the Accession Numbers of the books: | : | Yes |

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

There are dedicated staffs to look after them. Their needs are prioritized and served accordingly. Separate enclosure provisions are there, but Braille books are not available. The college did not have any visually impaired student in its roll and provisions can be made if needed.

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

**Strategies:** Preparation of questionnaires facilitating

- Feedback from outgoing students.
- Feedback from the departmental libraries.
- Feedback from the students on searched resources.

**Analysis and Use:**

- Done by the library sub-committee to recommend purchase of sought after volumes.
- Done by departments to augment students' needs

### 4.3. IT INFRASTRUCTURE

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

The IT enabled campus of Maulana Azad College is using three divisions of IT facility.

- HARDWARE
- NETWORKING and Wi-Fi
- SOFTWARE

Information technology (IT) is the application of computers and telecommunications equipment to store, retrieve, transmit and manipulate data, the term is commonly used as a synonym for computers and computer networks. Information technology infrastructure of our college is the integrated framework upon which digital networks operate. This infrastructure includes data centers, computers, networks, Database devices, and a regulatory system. Our IT infrastructure is viewed as everything that supports the flow and processing of information.

#### Uses of Information Technology in Our College:

- The College has a central computer centre where internet browsing facilities are available supplementing the same in the library.
- The Mathematics, Physics, Zoology, Sociology and Statistics departments have set up their own computer laboratories as computer programming and use of specialized software has become an essential part of the requirements of the syllabi in these subjects.
- In each department the faculty is provided with computers and on-line facilities over a LAN.

#### Introduction to computer software in our college

Besides the regular software like different versions of Windows (XP, 7 and 8) MS Office, Adobe Reader, Adobe Photoshop etc. Which are installed in the wide network of computers across the institution, the following are the major software used by different academic departments, library and the college office.

<b>➤ College Office and Library</b>	
<b>COSA</b>	: COSA ensures accuracy and timeliness in the generation of Pay Bills, Schedules and other Annexure required for producing Salary Bills of the establishments of Government Departments. The salient feature of COSA is that it neither needs any DBMS engine to be installed in the user machine nor any sort of Programming/Reporting Software tool nor hence proved to



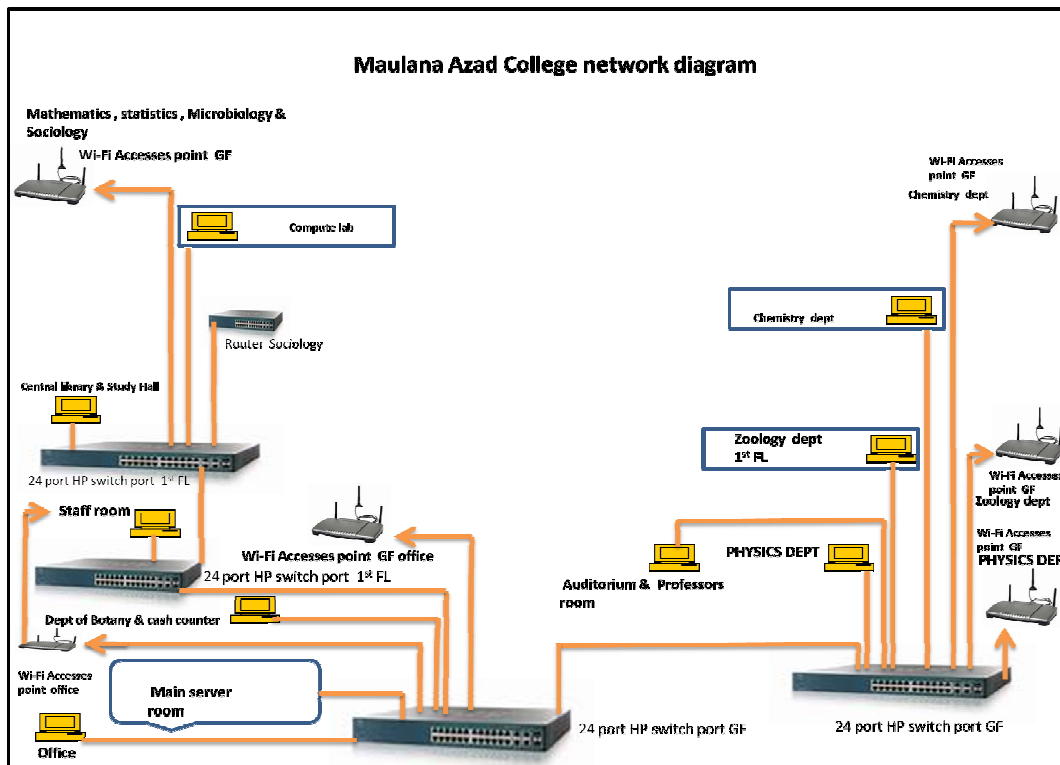
		be a cost-effective solution in conformation with the policy of NIC in implementing E-Governance in the Government Offices. COSA is running successfully in around 2000+ DDO offices in West Bengal.
<b>KOHA</b>	:	<b>Koha</b> is an open source Integrated Library System (ILS). Koha has most of the features that would be expected in an ILS, including: Various Web 2.0 facilities like tagging, comment, Social sharing and RSS feeds, Union catalog facility, Customizable search, Circulation and borrower management, Full acquisitions system including budgets and pricing information (including supplier and currency conversion), Simple acquisitions system for the smaller library, Serials system for magazines or newspapers, Reporting, Reading lists for members.
<b>➤ Department of Physics</b>		
<b>Fortran, C++ and C compiler</b>	:	Used for scientific computation.
<b>Matlab and Mathematica</b>	:	These are the high-level languages for numerical computation, visualization and development. It is generally used for solving ordinary differential equations, Fourier analysis, optimization and numerical integration.
<b>Microcal Origin and GNU PLOT</b>	:	These are the computer programs for interactive scientific graphing and data analysis. Data analyses in Origin include statistics, signal processing, curve fitting and peak analysis.
<b>LaTeX</b>	:	It is a word processor and document mark up language. It is used for the communication and publication of scientific documents.
<b>Microsoft Visio</b>	:	It is a diagramming and vector graphics application and is part of the Microsoft Office family.
<b>➤ Department of Chemistry</b>		
<b>Gaussian – 09</b>	:	Computer program for computational chemistry. It provides state-of-the-art capabilities for electronic structure modelling. Gaussian 09 predicts the energies, molecular structures, vibrational frequencies and molecular properties of molecules and reactions in a wide variety of chemical environments.
<b>Chem Office</b>	:	ChemOffice is a scientifically intelligent, integrated suite of personal productivity tools that enables scientists and researchers to capture, store, retrieve and share data and information on compounds, reactions, materials and their properties. ChemOffice helps chemists to efficiently keep track of their work, visualize and gain a deeper understanding of their results and correlate biological activity with chemical structures.

<b>Microcal Origin</b>	:	It is a computer program for interactive scientific graphing and data analysis. Data analyses in Origin include curve fitting, peak analysis etc.
<b>➤ Department of Zoology</b>		
<b>GelDoc (Bio-rad)</b>	:	Gel imaging systems for detecting, imaging and quantitating stain-free colorimetric, chemiluminescent, fluorescent and radio isotopic signals. Software provides automation for image acquisition with data analysis and validation.
<b>Microcal Origin</b>	:	Interactive scientific graphing and data analysis program. Data analyses in Origin include curve fitting, peak analysis etc.
<b>Canoco</b>	:	Canoco is one of the most popular programs for multivariate statistical analysis using ordination methods in the field of ecology and several related fields.
<b>PC-ORD 5</b>	:	Software for multivariate statistical analysis of ecological communities. Includes cluster analysis, ordination, 3D graphics, and species diversity.
<b>Biodiversity Pro</b>	:	Biodiversity Pro software is a statistical package program for Windows PC enabling many measures of diversity to be calculated for a dataset of taxa by samples.
<b>PAST</b>	:	Software for scientific data analysis, with functions for data manipulation, plotting, univariate and multivariate statistics, ecological analysis, time series and spatial analysis, morph metrics and stratigraphy.
<b>➤ Department of Mathematics</b>		
<b>Turbo C++ 4.5</b>	:	It is a C++ compiler and integrated development environment and computer language originally from Borland.
<b>Win Edit</b>	:	It is a powerful and versatile all-purpose text editor for Windows with a strong predisposition towards the creation of LaTeX documents.
<b>Mathematica and Matlab</b>	:	These computational software programs are used in many scientific, engineering, mathematical and computing fields, based on symbolic mathematics.
<b>➤ Department of Statistics</b>		
<b>Turbo C++ 4.5</b>	:	It is a C++ compiler and integrated development environment and computer language originally from Borland.
<b>Win Edit</b>	:	It is a powerful and versatile all-purpose text editor for Windows with a strong predisposition towards the creation of LaTeX documents.
<b>R 3.1.2</b>	:	It is a programming language and software environment for statistical computing and graphics. It consists of a language plus a run-time environment with graphics, a debugger, access to certain system functions, and the ability to run programs stored in script files.

<b>Minitab 16</b>	:	A statistical package provides a simple, effective way to input statistical data, manipulate that data, identify trends and patterns, and then extrapolate answers to the problem at hand. That's a rather simplistic way of describing this vital and extremely effective tool.
<b>➤ Department of Microbiology</b>		
<b>Origin 8</b>	:	<b>Origin</b> is a proprietary computer program for interactive scientific graphing and data analysis. It is produced by OriginLab Corporation, and runs on Microsoft Windows. It has inspired several platform-independent open-source clones like QtiPlot or SciDAVis. Graphing support in Origin includes various 2D/3D plot types. Data analyses in Origin include statistics, signal processing, curve fitting and peak analysis. Origin's curve fitting is performed by the nonlinear least squares fitter which is based on the Levenberg–Marquardt algorithm. Origin imports data files in various formats such as ASCII text, Excel, NI TDM, DIADem, NetCDF, SPC, etc. It also exports the graph to various image file formats such as JPEG, GIF, EPS, TIFF, etc. There is also a built-in query tool for accessing database data via ADO.
<b>Spectra Manager II</b>	:	Spectra Manager II is the latest version of the JASCO innovative cross-spectroscopy software platform. The approach of having a single platform for data analysis is a unique and powerful way to manipulate and display data from any JASCO spectroscopy system. UV/VIS/NIR, Fluorescence, FT/IR, CD, ORD, LD, Raman, FT-Raman, Polarimeter and other types of data files can be directly compared, processed, and printed together.
<b>Axio Vision LE</b>	:	AxioVision LE is a powerful tool created to help control the functions of a camera or microscope in order to capture images, process them, add annotations and catalog them. The application can be used to control high-resolution cameras as well as high-sensitivity, motorized Carl Zeiss microscopes. AxioVision LE is created to help perform complex and minute tasks in a simple and intuitive manner. While interfacing with a camera, it can help you figure out the optimum focus and lighting.
<b>UVP Doc-It<sup>R</sup> LS image analysis software</b>	:	Life Science (LS) software from UVP runs the UVP Gel Documentation System and lets users acquire, enhance, and analyze images in a simple and efficient way. The software is designed to image electrophoresis gels (DNA, RNA, and Protein), blots, membranes, plates, plants, and animals. Once the image has been captured with an application-specific camera, it can be saved for record keeping purposes, manipulated for analysis, and annotated to point out key features.

**NETWORKING:**

The College is networked through WAN and LAN. Here is a lay out of the LAN connection.



**Figure 4.3: Lay Out of the LAN Connection**

• **Number of computers with Configuration:**

Department	Computer	Configuration	Number	OS/Software	Printers/Scanner
Physics	Desk tops-13	Pentium-IV, 2GB RAM, 2.8 GHz, 500 GB HDD.	15	Windows XP-14. Linux Windows XP	HP LaserJet 3 Cannon ScanJet 1
	Laptop-2	Intel Core i3, 2GB RAM, 500 GB HDD.			
Chemistry	Desktop - 4	Intel core i5, 2.67 GHz,4 GB RAM, 500GB HDD	6	Windows 7 Linux	HP Laserjet: M1136MF P Umax Astra 5600
		Intel core i3, 3.2 GHz, 4 GB RAM, 300GB HDD			
Intel dual core, 3.0 GHz,1 GB RAM, 80GB HDD					
Intel Pentium-IV, 3.0 GHz, 1GB RAM, 80GB HDD					
	Laptop-2	Dell latitude: Intel Core i7,500GB HDD, 8 GB RAM Intel Pentium-Dual Core, 3.0 GHz, 2GB RAM,HDD-500GB			

Department	Computer	Configuration	Number	OS/Software	Printers/Scanner
Statistics	Desktops-25	Intel Core i3, 4 GB RAM (DDR3), 500GB HDD Intel core i5, 4GB RAM (DDR3), 500GB HDD Intel core 2 Duo, 1 GB RAM (DDR3), 320 GB HDD Pentium-IV, 256MB RAM (DDR1), 80 GB HDD	27	Windows 7 Windows XP SP3 Vista SP-1	HP Laserjet 3 Cannon Laserjet colour 1  HP Laserjet Multifunction 1 HP Scanner 1
	Laptops-2	Intel Core 2 Duo, 2 GB RAM (DDR1), 240 GB HDD Intel D/C, 4 GB (DDR2), 500 GB HDD			
Mathematics	Desktops-4	Intel Pentium D/C, @2.20GHz, 986 MB RAM,	4	Windows XP	
Zoology	Desktop-17	Intel Pentium D/C, @2.60GHz, 0.99 GB RAM,	20	Windows XP SP-3	HP Laserjet 9 HP Inkjet colour 1 Scanner 2
	Laptop-3	Intel core i3 2.53 GHz 3.00 GB RAM			
Botany	Desktop-2	Intel Pentium D/C, @2.60 GHz, 0.99GB RAM, Intel Pentium Core 2 Duo, @2.66 GHz, 1.98 GB RAM	3	Windows XP SP-3 Version 2002 Windows XP	HP Laserjet 2
	Laptop-2	Intel core i3 2.53 GHz 3.00 GB RAM			
Microbiology	Desktop-6	Intel Core i3 @3.4 GHz, 4 GB RAM, DDR3, 500 GB HDD Intel Pentium D/C, @3.00GHz, 2 GB RAM, 500 GB HDD Pentium 4, 80 GB HDD	10	Window 7 Window 8  Windows XP	HP Scanjet G2410 HP Laserjet 3 Cannon Laser Colour XEROX Work centre
	Laptop-4	Pentium Atom processor Intel Core i3 @3.4 GHz, 4 GB RAM, DDR3, 500 GB HDD Lenovo, Pentium IV, 1 GB RAM, DDR2, 500 GB HDD			
Sociology	Desktop-7 Laptop-2 Tablet-1	Intel Core i3, 2 GB RAM Intel Core i3, 2 GB RAM	10	Windows XP SP-3	
Urdu	Desktop-2	Intel Core i3, 4 GB RAM	02	Windows XP	Canon Printer-1
English	Desktop-1	Intel Core i3, 4 GB RAM,DDR3, 500GB HDD	02	Windows Home 7 Premium  Windows-7	Canon Printer-1 Photocopiers: 1
	Laptop-1	Intel Core i3, 500GB HDD, RAM-2GB			
Staff room	Desktop-	Intel Core i3, 4 GB RAM,DDR3,	09	Window7	

Department	Computer	Configuration	Number	OS/Software	Printers/Scanner
	9	500GB HDD		Professional	
<b>Students' Section</b>	Desktop-4	Intel Pentium D/C, E 5300@2.60Ghz, 2 GB RAM	04	Window7 Ultimate	
<b>Principal's Office</b>	Desktop-9	Intel Pentium D/C, E 5700@3.00Ghz, 1.96 GB RAM	10	Windows XP Professional	
	Laptop-1	Intel Core i3, 500GB HDD, RAM-2GB			
<b>Library</b>	Desktop-19	Intel Pentium D/C, E 2200@2.20Ghz, 1.96 GB RAM Intel Core i3 2120 @3.30 GHZ, 4 GB RAM,DDR3, 500GB HDD	19	Windows XP  Window7 Professional	
<b>Commerce</b>	Desktop-3	Intel Pentium D/C, G630 @2.7Ghz, 4 GB RAM	03	Window7	
<b>Minority IT Training Centre</b>	Desktop-1	Intel Core i3-2120@3.30 GHZ, 4 GB RAM,DDR3, 500GB HDD	01	Windows-8	
	Android Tab-2	Asus	02		
<b>Entry into Services</b>	Desktop 1 Laptop-1	331 Intel Atom Processor 2 GB RAM,320GB HDD	01	Windows SP-3	HP Laserjet 1
<b>Remedial Coaching</b>	Dell Laptop-2	Model 804, Intel core i3, 3 GB RAM	02	Windows 7	
<b>Counselling Cell</b>	Dell Laptop-1	Model 903,Intel core i3; 3 GB RAM,320 GB HDD	01	Windows XP	
<b>Entrepreneurship initiative</b>	Samsung Laptop	Intel atom CPU N 2100@1.6 GHZ,1 GB RAM	01	Windows XP	
<b>Boys' Hostel</b>	Desktop-2	Intel Pentium D/C, E 2200@2.20Ghz, 1.96 GB RAM	02	Windows XP	
<b>Security</b>	Desktop-1	HP5502	01	XP	
<b>NET/SET Coaching centre</b>	Laptop 1	Dell 331 Intel atom/2GB RAM/500 GB HDD	01	XP	
<b>Principal's Chamber</b>	Desktop 3	Intel Core i3-3220T22.8GHz/4 GB RAM	03	Windows 7 Ultimate	
<b>Arabic</b>	Desktop-1	Pentium dual Core, 2.6 GHz, 1GB RAM	01	Windows-7	Printer: HP Laserjet P1007
<b>History</b>	Laptop-1	Core i-3 Dell, 4GB RAM	01	Windows-7	

Department	Computer	Configuration	Number	OS/Software	Printers/Scanner
Persian	Desktop-1	Intel Pentium D/C, E 2200@2.20Ghz, 1.96 GB RAM	01	Windows-7	
<b>TOTAL</b>			168		

⊕ **Computer-Student Ratio: 1: 12**

⊕ **Standalone facility      Multifunctional units      Number**

(Scanners, Printers)	Xerox copier	3
	Ricoh	1
	Networked printer/scanner/copier	1
	Kilburn Kyocera Taskalfa 220	8
	Duplex RADF printer, copier	1
	Xerox 5821	1
	Canon multifunctional 3300	2
	HP M 1136 MFP	1
Standalone printers		45
Standalone Scanners		14
• LAN facility		- Available
• Licensed software		- Yes
• Number of nodes/computers with Internet facility		- 09

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

- Students of each and every department can access the computers either in the Departmental facilities available or in the Central Library
- Internet facility 1 Gbps
- Central server: IBM
- Dedicated BSNL Broadband connectivity to departments: 6
- On campus Wi-Fi Connectivity (speed 1Gbps)
- E-Classrooms: 9
- LAN: Yes
- Off campus access to E-repositories like JSTOR.
- Computer training/ Initiation programmes are part of extension programmes.
- Website access for all details regarding admission and Facilities

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

The institution plans to augment the existing facilities with:

- ✓ To make the archived material accessible via net.
- ✓ To tie up with university and other institutional inventories.
- ✓ To procure advanced high-speed broadband connections.
- ✓ Resource sharing with international universities.
- ✓ To develop Virtual classrooms

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

Item	2011-12	2012-13	2013-14	2014-15
Purchase of Computer and Related items	Rs. 1,71,176/-	Rs. 3,06,856/-	Rs. 3,07,346/-	Rs. 2, 63,595/-
Maintenance of Computer and Related items & Annual Maintenance Charges	Rs. 1,19,893/-	Rs. 1,56,563/-	Rs. 1,74,120/-	Rs. 1,16,670/-

#### 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?

- Resource development and distribution are part of the curriculum enrichment initiatives followed extensively in this college.
- Upgrading regular classrooms to E-classrooms is one of our priorities. At present there are 36 classrooms available in this college, of them already 9 are with E-facilities.
- To enable the students with accessibility to library resources is our goal and till date we have been able to make the steps up to searching-borrowing digitized.

#### 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 strategy of the institution has always been student-centric. Students can themselves search the racks, choose between the resources available through the working hours, search for borrowers in case of already borrowed sought after books,



place requisition for and search the e-inventories for any of their needs.

- The purchase, every year, is planned well beforehand keeping students' requirements in the centre. The library is kept open throughout the vacations for use.

#### **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**

Directly through DELNET/INFLIBNET link. The college subscribes to the JSTOR and makes 231 journals available to the users.

### **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 specialties (substantiate your statements by providing details of budget allocated during last four years)**

The college, in itself, has no authority to allocate fund for the maintenance and upkeep of different infrastructural facilities. It can, however, apply to the state government for providing funds for the aforementioned purpose. The Department of Higher Education, West Bengal releases grants through the Director of Public Instruction (D.P.I), West Bengal on various Plan and Non-plan heads.

		<b>2011-12</b>	<b>2012-13</b>	<b>2013-14</b>	<b>2014-15</b>
a	<b>Building</b>	Rs. 19,66,376	Rs. 38,82,603	Rs. 15,06,755/-	Rs. 7,83,564/-
b	<b>Furniture</b>	Rs. 36,29,593/-	Rs. 2,50,000/-	Rs. 5,00,000/-	Rs. 2,00,000/-
c	<b>Equipment</b>	Rs. 35,00,000	Rs. 5,00,000/-	Rs. 2,00,000/-	Rs. 22,00,000/-
d	<b>Vehicles</b>	-	-	-	-
e	<b>Chemicals &amp; Glassware</b>	Rs. 7,50,000/-	Rs. 4,00,000	Rs. 1,00,000/-	Rs. 3,00,000/-

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

Following timeline is followed for the purpose:

- December preceding Year: Proposals are sought from the Head of the Departments.
- March: IQAC and Purchase Committee approves the proposals
- April: Advertisements are published asking tenders in leading newspapers
- Post Grant: Allocation of Funds to the departments
- December-January: Submission of Bills-cum-UC.
- Separate budgeting is done by PWD for upkeep and maintenance of the building.

- The government on approval of the budget allocates fund directly to the PWD.
- For instruments like Copiers, Generator, computers, specific instruments approval is required from DPI, West Bengal.
- For software, data management memoranda of understanding are signed between the college and the vendor on approval of DPI.

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

- Instruments under AMC, including copiers, AC machines, and computers are serviced at least once in a quarter. Apart from that, all these contracts are signed “on call” basis in case of any emergency.
- Digital Instruments in different lab-based departments are calibrated at the onset of the Practical Session by Faculty Members themselves. Special care is taken to calibrate the scientific instruments before the college and university examinations.

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

- The college has a 20 KV generator to ensure uninterrupted power supply.
- Precision instruments are kept in AC rooms as far as practicable.
- Servo type Voltage stabilizers are used to prevent trip-down in Copiers, Cold-centrifuges etc. UPS back up is there for all microprocessor based instruments.
- Water supply is managed by Kolkata Municipal Corporation. Separate quartz distillation units are used in all water sensitive experiments.

**Any other relevant information regarding Infrastructure and Learning Resources which the college would like to include:                      None**

## 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 information brochure or the prospectus of the college is printed as well as uploaded in the website. The information provided on is:

- A brief history of the college.
- The rich historical and cultural perspective that attracts students from all social, economic and religious backgrounds and that has allowed this college to maintain and uphold the secular principles of the country.
- Norms of admission/ courses offered at UG/PG level and eligibility.
- Availability of interdisciplinary options.
- Availability of language options as compulsory and majors.
- Number of seats and provisions for reservation for SC/ST/OBC/Physically Handicapped.
- Fee structure
- Faculty profile
- Information on support staff.
- Recreational facilities available
- Co curricular activities
- Information on Library
- Information on Distance Learning Centre affiliated to IGNOU.
- Rules & Guidelines of the college and Hostel for the students.
- Provision for Stipend/ Free Studentship/ Scholarship.
- The prospectus also contains the academic calendar and a draft affidavit to be submitted by the newly admitted student and his/her guardian for undertaking legal responsibility in case of complaints of ragging against the declarant.

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

Details of the institutional scholarships / free ships given to the students during the last four years is given in Table nos- 5 .1, 5.2 & 5.3

**Table 5.1. Types of Institutional Scholarships**

Scheme	2011-12			2012-13			2013-14			2014-15		
	M	F	T	M	F	T	M	F	T	M	F	Total
Merit-cum-means Scholarship	31	01	32	06	01	7	11	03	14	19	03	22
Students' aid Fund	26	11	37	55	30	85	13	06	19	04	02	06
West Bengal Minority Development Financial Corporation (WBMDFC)	351	415	766	407	378	785	543	553	1096	536	456	992
Kanyashree	-	-	-	-	-	-	-	88	88	-	34	34
Sitaram Jindal Fellowship	01	01	02	02	00	02	02	00	02	-	-	-
Others(NHFD C/WAKF etc)	-	-	-	05	29	34	-	-	-	24	22	46

**Table 5.2: Amount spent on student support schemes**

Scheme	2011-12	2012-13	2013-14	2014-15
Merit-cum-means Scholarship	357000/-	72600/-	145800/-	207000/-
Students' aid Fund	47079/-	72695/-	24120/-	7350/-
West Bengal Minority Development Financial Corporation (WBMDFC)	4417920/-	4513550/-	6314200/-	NEFT Transfer
Kanyashree	-	-	2200000	850000
Sitaram Jindal Fellowship	7800/-	8400/-	7200/-	-
CPE grant		100000/-		50000/-
Others (NHFD C)		10867/-		
TOTAL	48,29,799/-	48,28,112/-	86,91,320/-	10,64,350/-

**Table 5.3: Half/Full free ship offered to the students:**

Year	Category	Minority		Non-minority		Total		
		Male	Female	Male	Female	Male	Female	Grand
2011-12	Full studentship Free-	73	85	21	4	94	89	183
2011-12	Half studentship Free-	40	61	9	0	49	61	110
2012-13	Full studentship Free-	95	116	18	10	113	126	239
2012-13	Half studentship Free-	66	71	6	0	72	71	143
2013-14	Full studentship Free-	60	55	2	0	62	55	117
2013-14	Half studentship Free-	48	60	3	3	51	63	114
2014-15	Full studentship Free-	15	12	2	0	17	12	29
2014-15	Half studentship Free-	95	74	13	1	108	75	183

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

**Table 5.4: Percentage of students receiving financial assistance from state government, central government and other national agencies**

Agency	2011-12	2012-13	2013-14	2014-15
State Government	39.85%	43.47%	58.04%	52.38 %
Central Government	0.09%	1.61%	-	-
Other agency	-	-	-	2.19%

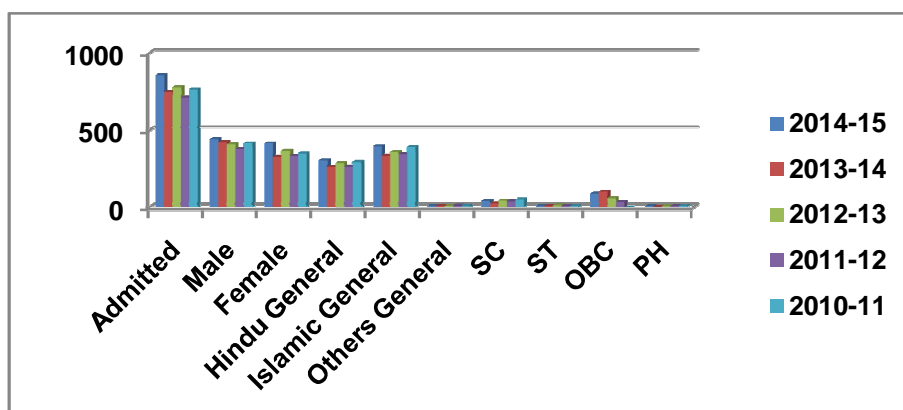
### 5.1.4 What are the specific support services/facilities available for

- ❖ Students from SC/ST, OBC and economically weaker sections
- ❖ Reservation of seats as per Government guidelines.

**Table 5.5: Diversity in categories of students admitted reflecting inclusiveness**

Year	Admitted	Male	Female	Non-Minority General	Minorities General	Others General	SC	ST	OBC	PH
2014-15	856	442	414	304	395	10	41	10	88	8
2013-14	748	421	327	263	335	10	26	10	101	3
2012-13	777	409	368	285	359	9	43	14	60	7
2011-12	710	377	333	264	343	12	39	9	35	8

Figure 5.2: Diagram showing Diversity in Admittance



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

The College has organized two UGC sponsored career-oriented Entrepreneurship programmes for Girl students under its CPE scheme in association with NGOs. . Activity by NGO is important part of the civil society movement. They help the marginalized by providing entrepreneurship skills and also by creating awareness among the target population of their right. To continue with the task of motivation and also for creating awareness seminars and workshops were arranged for the target group. Seminar “Practicing Sociology” was organized where there were speakers from a number of leading NGOs. It was an immensely successful event with almost 200 students from colleges around and many of our students got actively involved in the activities of the organization. The response was tremendous and a separate cell has been established under the Department of Sociology for operating this scheme.

- The college had been host to the UGC sponsored Management Skills Enhancement Modules Workshop and very successfully conducted these National level programmes. The details of these programmes are as given below:

Table 5.6: National level programmes

Programme	Resource persons	Funding Agency	Date
Management Skills Enhancement Modules Workshop(Capacity Building of Women Managers In Higher Education)	1. Prof. Susheela Kushik, Co-Chair Person, NCC 2. Prof. Jaya Indiresan, Module Author 3. Dr. Vindhya Undurti, Module Author, CGRP (West Zone – I & II) 4. Prof. K. G. Uma, Module Author 5. Dr. Rajesh Gill, Trainer Associate 6. Dr. Nisha Rana, Trainer Associate	UGC	January 07 – 11, 2013
Sensitivity/Awareness/	1. Professor Padma Ramachandran,	UGC	22-26

Programme	Resource persons	Funding Agency	Date
Motivation (SAM) Workshop for Women Empowerment	Core Group Resource Person 2. Professor Karuna Chanana, Core Group Resource Person 3. Professor Sarbani Chaudhury, Regional Coordinator 4. DR. Miratun Nahar, Ex. Member Women's Commission, West Bengal 5. Smt. Anuradha Talwar, Human Right Activist		March, 2010

**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.**

- ❖ Preference in Admission as per Government rules.
- ❖ Arranging additional classes for them
- ❖ Seat in Hostel for sportsmen
- ❖ Providing material, dress, kits etc to sportsmen
- ❖ The college has arranged for coaching at SAI under Dronacharya Coach Kuntal Roy for training in athletics of State level winner Md. Shakeel.

**5.1.7 Enumerating on the support and guidance provided to the students in preparing for the competitive exams, give details on the number of students appeared and qualified in various competitive exams such as UGC-CSIR- NET, UGC-NET, SET, ATE / CAT / GRE / TOFEL / GMAT / Central /State services, Defense, Civil Services, etc.**

Basically this is an undergraduate college. However, as already been stated, the college is successfully operating two of its coaching centres under the merged scheme, namely, 'NET SET Coaching Centre' and 'Entry into Services' Centre.

**Table 5.7: Coaching for Entry into Services for the students belonging to SC/ST/OBC/Minorities:**

Sl No.	Year	SC	ST	OBC	Minorities	Total	Success (as per record)
1.	2010-11	12	06	39	107	164	17 candidates employed
2.	2011-12	10	04	38	105	157	11 candidates
3.	2012-13	08	02	29	89	119	22 in SSC
4.	2013-14	09	01	07	60	77	1 WBCS (Executive) and 13 others

**Table 5.8: Enrolment and Success rate in NET/SET coaching Centre:**

Sl No.	Year	SC	ST	OBC	Minorities	Total	Success (as per record)
1.	2010-11	09	00	03	41	64	01
2.	2011-12	06	01	01	67	128	03
3.	2012-13	04	00	19	14	62	03
4.	2013-14	03	01	06	09	45	02

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

- ❖ The College has a Career Counseling Cell which regularly interacts and brings in industry placement experts for students career counseling.
- ❖ There is also a Psycho-Social Counseling Cell which holds counseling sessions for individual students to help them to cope with stress and challenges of life.
- ❖ The Cell against Sexual Harassment is open to any exigencies which are brought to their notice. Not a single case, however, been reported till date.
- ❖ The Anti –Ragging cell deals with the erring students in case of complaint and the issues are usually resolved by the Hostel Committee.

*Please refer to Section 2.3.8; Table-8 for the list of eminent academicians who have visited this college during the period under consideration*

### 5.1.9 Does the institution have a structured mechanism for career guidance and placement of its students? If ‘yes’, details on the services provided to help students identify job opportunities and prepare themselves for interview and the percentage of students selected during campus interviews by different employers (list the employers and the programmes).

In campus selection was sparse. The college has for the last few years pursued off-campus and in campus interviews by following houses:

1. Accenture Technologies-2009-10
2. Wipro-2009-10
3. Tata Consultancy services-2011-12’2012-13
4. Chembiotech- 2009-10

There is a career-counselling cell functioning in the college and in 2011-14 several activities under this cell took place:

- 26/2/14 – ICFAI Groups (Deemed University at Hyderabad) Organised a presentation regarding, “Technical, Managerial and Vocational Education”.



- 04/03/2014- Students Interaction with “West Bengal Minorities Development & Finance Corporation”, offering courses on Web Designing and DTP.\*notice served to all science and arts department 18/2/2014- seminar organised by the NIIT groups on,” applicants for NIIT 10<sup>th</sup> national aptitude test.
- 06/3/2014- Names of Final Year Students (Bcom, Microbiology and Economics) send through Mail for Job Opportunity at IBM.
- APRIL, 2014- Lecture given on “Post Graduate in Packaging Technology Programme”.
- 27/8/2014- Consulting Management Incorporate Pvt. Ltd. Organised a Lecture regarding, “Vocational training for West Bengal Minorities Development.
- 22/11/14- Consulting Management Incorporate Pvt. Ltd. Organised a Lecture regarding, “Vocational training for West Bengal Minorities Development.
- In 2014-15 the cell collaborated with external agencies for campus recruitment and several offers materialized.

**Table 5.9: List of Candidates Attended & Placed**

Sl. No.	First Name	Placed At
1	Rohit Kundu	TCS
2	Souvik Neogi	Axis Bank
3	Samarendra Roy	-
4	Soham Chatterjee	Genpact
5	Sayani Basu	Genpact
6	Saima Ali	-
7	Pawan Ghosh	-
8	Taufique Hossain	Reliance
9	Abhijit Barua	Marriott
10	Asif Ali	-
11	Shilpa Dey	Genpact
12	Gul Afshan	-
13	Chandreyi Samaddar	Jet Airways (GS), Marriott, Concentrix
14	Zinnia Dirghangi	Marriott, ITC

**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.**

The institution has a well-functioning student grievance Redressal cell which responds to the grievances brought to their notice. Following are the members of the Cell:

The institution has a well-functioning student grievance Redressal cell which responds to the grievances brought to their notice. All heads of the departments and members of

anti-ragging and prevention of sexual harassment cell are members of this committee. The complaints were few and far between.

The table below is a list of grievances received and resolved by the committee:

**Table 5.10: List of grievances received and resolved by the committee**

Sl No.	Complaint made by with date	Nature	Action taken
1.	Anonymous dated 16.09.2011	Outsiders in Hostel	Committee was formed and steps taken to evacuate two guest boarders
2.	Readers in Reading Room dated 21.2. 2012	Certain students using mobile phones causing disturbance	Prohibitory notice issued. One library attendant would always be present in the RR during college hours.
3.	Secretary Students' Union 2013	Presence of outsiders during college hours	The committee strongly recommended that only ID holders be allowed inside by the security
4.	Three Microbiology students dated 12.08.2013	Loss /theft of Practical copy from college	The committee took serious view of this. It was felt that to avoid this kind of occurrence lockers should be provided
5.	Boarders of Hostel dated 17.01.2014	Quality of food served	Hostel committee took initiative to resolve the matter
6.	An IGNOU student dated 22.04.2015	Complaint against use of mobile phone for clicking photographs	The committee looked into the matter and found that it was actually a driver of one faculty who clicked the photos. He was disengaged by the faculty.

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

The college has a Students' Grievance Redressal Subcommittee and Prevention of Sexual Harassment Subcommittee.

The activities of the Committees are:

- On **05.02.13** the Cell was inaugurated by Dr. Ishita Mukherjee, Director, Centre for Women Studies, University of Calcutta and Prof. Pratap Ch.Ray had presided over the session. Copies of the '**Vishaka Guidelines**' against Sexual Harassment in the Workplace' were circulated in the session. Presence of students, teachers, and office-staffs made the programme was attended by about **150 students**.
- A workshop of seven days (**17<sup>th</sup> April, 2013 to 24<sup>th</sup> April, 2013**) was conducted by Cell to enhance the awareness among students on the issue of gender sensitivity. First year students, boys outnumbering the girls, joined the programme enthusiastically. Several talks and interactive sessions were organized to open up a dialogue on the issue of gender sensitivity. In all about **215 students** took part in it. They were repeatedly reminded that any lewd joke, sexist jibes; dirty gestures would

make a person culpable of sexual harassment. They were inspired to make several posters on the issue, nurturing the concept that no torment could be inflicted on a girl. The message was conveyed through a play titled 'Sita' written and directed by the eminent theatre personality, Prof Ujjal Chattopadhyay, who is a member of our faculty.

**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

The anti ragging subcommittee redresses the complaint of students.

**Activities:**

Despite our best effort we must admit that we could not completely eradicate the incidence of Ragging from our society. Maulana Azad College has Baker Hostel and the Hostel committee takes stern steps as well as conducts counseling sessions for both victim and perpetrators. For better monitoring of the borders an anti ragging cell in the Hostel was established and a 24x 7 CCTV monitoring facility is now available in the Baker Hostel. CPE has also funded improved water supply system, library and computer facility in the hostel. About 350 students are monitored through this facility.

*Please refer to 5.1.10*

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

There are several welfare schemes available to the students. These include:

- ❖ The Principal's Students Aid Fund
- ❖ The Government's Merit-cum-Means scholarship
- ❖ SC/ST/OBC Welfare Scheme
- ❖ Assistance from Department of Minority Affairs
- ❖ The Kanyashree Scheme for girl students launched from 2013.
- ❖ The Free-Studentship on Merit-Cum-Means Basis

*Please refer to 5.1.1*

**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?**

**Maulana Azad College Alumni Association Kolkata**

8, Rafi Ahmed Kidwai Road, Kolkata-700013

Regn, No. S/1L/77219

Email ID: mac.alumni.kolkata@gmail.com

**A Brief Report on the Activities of the Association**

Maulana Azad College, previously called Islamia College, was established in 1926. Though it is a prime institution of Eastern India, unfortunately all efforts, in the past, to form an Alumni Association proved ephemeral due to various reasons. However, in the year 2010 the dream of establishing the Maulana Azad College Alumni Association Kolkata (MACAAK) came true due to the sincere endeavors made by its ex-students.

The first meeting of the Ex-Students of the College was held on 24<sup>th</sup> April 2010 under the chairmanship of Prof. Subhasis Datta, the then Principal of Maulana Azad College with a view to establishing an Alumni Association. The prominent ex-students, who took special interest and spearheaded this noble cause, comprised Mr. Md. Shamim (Retd. IPS), Mr. Jawaid Iqbal (Ex-WBCS), Mr. Anis Akhter, Dr. Gholam Sarwar, Dr. Md. Mansoor Alam, Dr. Tanwir Ahmed, Mr. Jameel Ahmed, Mr. Nishat Alam, Mr. Mozammil Hossain, Mr. Tanwir Ahmed Khan etc.

In the very first meeting it was resolved that the Memorandum of Association of the Alumni Association i.e. Maulana Azad College Alumni Association Kolkata be drafted and membership drive be given impetus to garner the support of ex-students. On 8<sup>th</sup> May 2010 a working committee of the Association was formed and in the meeting held on 19<sup>th</sup> June, 2010 the Memorandum of Association was approved. In the same meeting, the Executive Committee of the Association was formed as per the approved Memorandum of Association.

In a meeting dated 19.06. 2010, it was resolved that the MACAAK be registered under the West Bengal Societies Registration Act 1961 at the earliest. Prof. Gholam Sarwar, the General Secretary along with Mr. Jaweed Yusuf, Mr. Mozammil Hossain and Mr. Tanwir Ahmed Khan worked hard for the registration and eventually got the association registered with effect from 19.01.2011 vide Regn. No.S/1L/77219.

As per the resolution dated 19.11.2011 the Foundation Day of the Maulana Azad College was organized by the Alumni Association in a befitting manner at Wahshat Hall of the College. A large number of Ex-students attended this function and showed their interest in the activities of the Association. The function was presided by Mr. M. Nizam and Mr. Ghaznaffar Ali Khan (Retd. IAS) graced the occasion as Guest in Chief. Prof. Dilip Kumar Ghose, the Director of the Institute of Historical Studies, Kolkata attended the function as Guest of Honour. On this occasion, Prof. Md. Mansoor Alam released a booklet entitled Maulana Azad College ---A Historical Background. Among the Alumni, the names of Prof. Sukumar Sen, Ex-Principal, Maulana Azad College, Prof. Sulaiman

Khurshid, the then Gen. Secretary of Muslim Institute, Prof. Naim Anis, Mr. Irshad Arzoo deserve to be mentioned. The function was a grand success.

The Bank A/c. of the Association was opened with the United Bank of India, Rafi Ahmed Kidwai Road Branch.

In a meeting dated 19-8-2013, the Executive Committee decided to institute a Memorial Lecture on Maulana Abul Kalam Azad on the occasion of 125<sup>th</sup> Birth Anniversary of the Maulana. The Secretary with the cooperation of the Principal, Maulana Azad College organized the memorial lecture on Wednesday, the 20<sup>th</sup> November, 2013 at G-2. Prof. Sulaiman Khurshid delivered his lecture on Maulana Azad: A Nationalist and Prof. Aneek Chatterjee of Presidency University presented his paper on the Contribution of Maulana Azad to the development of Scientific and Technical Education in India. A large number of teachers and students of the College attended the lecturer. Some other guests from outside the college, too, attended the lecture.

In a resolution dated 19-8-2013, the Executive Committee of Maulana Azad College Alumni Association Kolkata has resolved to organize its first AGM. Preparations are being made to organize it in a befitting manner in the month of March 2014.

*Office bearers* of the Association are as under:

Dr. Bijoy Krishna Roy (Principal)	Ex-Officio President
Md. Nizam (Retd. IPS)	Working President
Dr. Md. Mansoor Alam	Vice-President
Prof. Deb Kumar Mitra	Vice-President
Prof. Gholam Sarwar	General Secretary
Mr. Khwaja Jaweed Yusuf	Asst. Gen. Secretary
Mr. Mozammil Hossain	Asst. Gen. Secretary
Ms. Sudarshana Sen	Asst. Gen. Secretary
Prof. Jamil Ahmed	Treasurer

*Members:*

Prof. Tanwir Ahmed	Mr. Tanweer Ahmed Khan
Mr. Ritwik Roy	Prof. Aurobindo Pal
Prof. Anis Akhter	Prof. Md. Shahid Jamil.
Prof. Dabir Ahmed	Mr. Tanvir Afzal
Mr. Nishat Alam	Prof. Sukanti Dutta
Mr. Shamsul Alam	Mr. Jawaid Iqbal
Mr. Somyobroto Das	Mr. Saikat Bhattacharya
Ms. Shirin Zafar	

## 5.2 STUDENT PROGRESSION

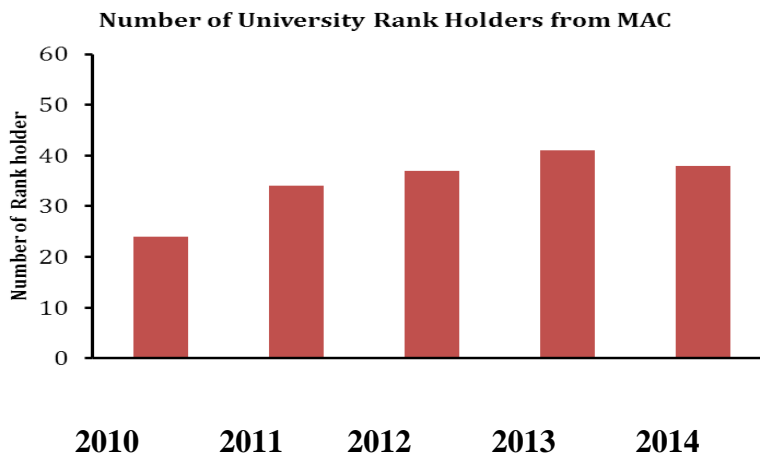
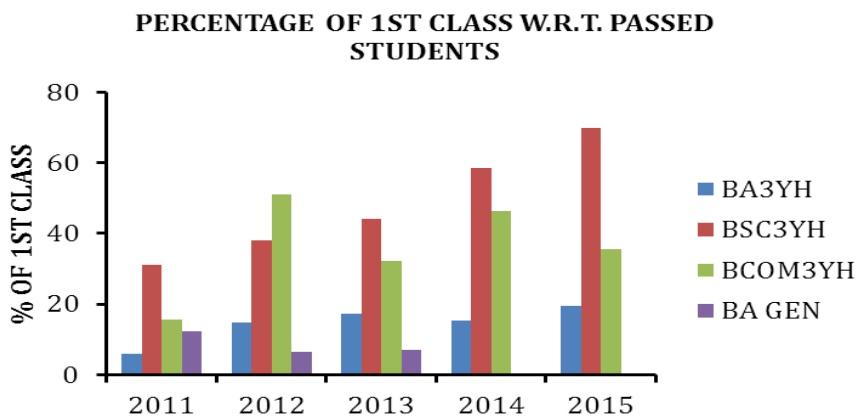
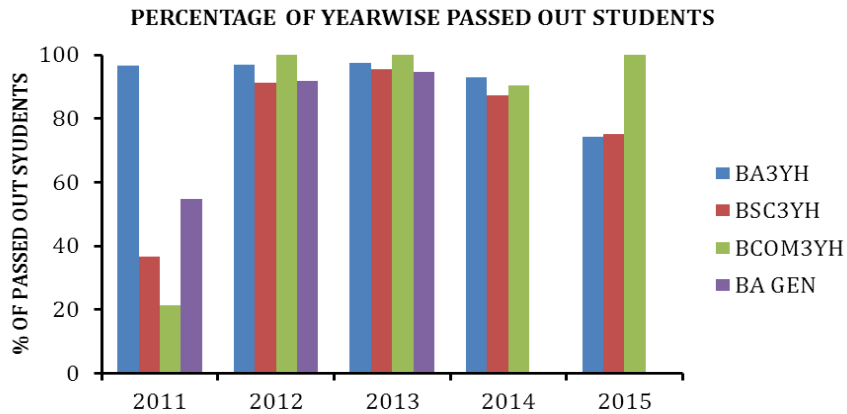
5.2.1 Provide the percentage of students progressing to higher education or employment (for the last four batches) highlight the trends observed.

Student progression	%
UG to PG	About 65 %
PG to M. Phil.	5%
PG to Ph.D.	15%
School Service/Madrasah Service Commission	10%
Other services	5%

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.

	Stream	Appeared	Passed	1 <sup>st</sup> class	% of success rate	% of 1 <sup>st</sup> class
2011	BA(H)	210	203	12	96.67	5.91
	BSC(H)	83	77	24	92.77	31.17
	BCOM(H)	53	45	7	84.91	15.56
	BA GEN	138	115	14	83.33	12.17
	BSC GEN	21	18	0	8.57	0
	BCOM	4	3	0	1.43	0
2012	BA(H)	252	244	36	96.83	14.29
	BSC(H)	138	126	48	91.30	34.78
	BCOM(H)	45	45	23	100.00	51.11
	BA GEN	99	91	6	91.92	6.06
	BSC GEN	12	10	0	83.33	0
	BCOM	2	2	0	100.00	0
2013	BA(H)	272	265	47	97.43	17.74
	BSC(H)	136	130	60	95.59	46.15
	BCOM	53	53	17	100.00	32.08
	BA GEN	114	108	8	94.74	7.41
2014	BA(H)	308	286	44	92.86	15.38
	BSC(H)	135	118	69	87.41	58.47
	BCOM(H)	62	56	26	90.32	46.43
	BA GEN	126	118	11	93.6	8.7
2015	BA(H)	290	215	42	74.14	19.53
	BSC(H)	137	103	72	75.18	69.90
	BCOM(H)	59	59	21	100.00	35.59
	BA GEN	131	126	13	96	

Note: B.Sc. and B.Com General Courses were discontinued with introduction of Botany (H) and B.Com (H) after 2012.



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

- Post-Graduate Courses are offered by the Departments of Zoology, English and Urdu at Maulana Azad College.
- The students get themselves enrolled to Post-Graduate programmes of University of Calcutta, other universities, Institutions that offer Integrated M.Sc –Ph.D programmes.

- The College runs two UGC sponsored Career Oriented Programmes namely NET Coaching Centre and Entry into Services Programme. Please refer to 5.1.7
- In addition there is the Career Counseling Cell to look after the placement of students in different sectors.

Almost 95% of our science students generally go for further studies. Students are selected in the following higher Institutes or Research Organizations:

Zoology	Microbiology	Botany	Chemistry	Physics	Mathematics/ Statistics
CU BHU Wild life Institute FRI IISc, Bangalore Bose Institute Pondicherry University Jadavpur University, Biotechnology	JNU IISc Hyderabad Central University BHU Human Genetics &Applied Microbiology Bose Institute, Integrated Ph.D.Programme IIT Bombay Env. Eng Oceanography, Goa	CU RKV Univ. WBSU KU	IIM,Dhanbad CU IIT, Bombay IIT, Madras IIT Gwuahati BESU,Shibpur Hyderabad Central University JU BU NIT Durgapur	HRI Allahabad IIT , Bombay IIT Gwuahati CU JU Atmospheric Science, CU SINP,Kolkata SNBSCS, Kolkata	Chennai Mathematical Institute IIT, Kanpur; IIT ,Mum IIT, Kgp CU

Students of Social sciences, Languages and Arts students pursue Masters in universities home and away. Following institutions have had substantial presence of Pass outs from this college over the years:

1. JNU
2. Delhi University
3. Jamia Milia Islamia
4. Hyderabad Central University
5. Aligarh Muslim University
6. Osmania University

#### 5.2.4 Enumerate the special support provided to students who are at risk of failure and drop out?

- The failed students are given chance to continue as per university rules on getting themselves readmitted.
- The students who are financially challenged are given all kinds of financial and material support in continuing their study.
- As almost half the students are girls and many of them come under pressure from families who wish to marry them off. In parent –teacher meetings we regularly and unrelentingly try to convince these families to allow their daughters to pursue



academics. These efforts and success they yield are considered very high points in our endeavor.

- The college has on-campus Distance Learning Centre affiliated to IGNOU and a good number of students who fail to cope up with the pressures of regular courses are given advice to pursue academics in our IGNOU study Centre.
- Remedial coaching is offered in all the subjects who are at risk of failure and the facility is also open to all students whoever wishes to take the opportunity.

### 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.

##### SPORTS:

- **Outdoor**
  1. Soccer- Men
  2. Cricket- Men
  3. Athletics –Men and Women
    - Sprint
    - Long jump
    - High jump
    - Shot put
    - Discuss
    - Javelin
    - Musical chair- Women only
- **Indoor**
  1. Badminton
  2. Table Tennis
  3. Chess
- **Gymnasium-** separate for Men and Women
- **Annual sporting Events:**
  1. Annual sports- Held in January every year.
  2. University sports- Held in January-February every year
  3. Inter Government College Meet- January-February each year
  4. State Inter University Meet- January-February each year

##### Highlights of Achievers in Sports

- **Year:2009-10**
  1. Md. Sajawat Ali Mandal- Best Male Athlete
  2. Shamshad Ara- Best Woman Athlete
- **Year 2010-11**
  1. Sk. Nasiruddin- Best Male Athlete
  2. Khusboo Agarwal- Best Woman Athlete
- **Year: 2011-12**
  1. Sk.Inayatul Ghaus- Best Male Athlete
  2. Amiya Haldar- Best Woman Athlete

- **Year: 2012-13**
  1. Md. Shakeel- Best Male Athlete
  2. Afreen Alam- Best Woman Athlete
- **Year 2013-14**
  1. Md. Shakeel- Best Male Athlete
  2. Afreen Alam- Best Woman Athlete
- **Year 2014-15**
  1. Md. Shakeel- Best Male Athlete
  2. Suchandra Goswami- Best Woman Athlete
- Anuja Halder was Runner Up in the Women's' inter-college Badminton Championship(2010).Played in the Calcutta University Team in the All India competition
- Melisa Ali of PG department of English represented Calcutta University in Inter-University Basketball Championship.
- Md. Shakeel of Persian Department was University Blue in Athletics (800 m) and competed at National level (2011-12, 2012-13). Currently he is being coached by Dronacharya Awardee Kuntal Roy at SAI, Kolkata.

#### Co – Curricular Activities

- **College Social- Istalazza** held in November- December each year. This is an Inter College meet held in the college campus attended by all major institutions of the State. Competitive events like Quizzing, Debating, Singing, Recitation, creative writing are parts of the programme.
- **Foundation day-** 9<sup>th</sup> December each year. In 2013 celebrated as Blood Donation Day.
- **Maulana Azad Birth Anniversary-** 9<sup>th</sup> November each year, celebrated in association with Alumni Association
- **Independence Day and Republic day are celebrated both in College and Hostel.**
- **Re Union:** Re Unions are held in department specific manner. ALZOOMAC is the Alumni association of the Zoology department and MICROMAC is the alumni association of Microbiology Department that meets every year before Puja Vacation.
- **MILANOTSAV-** Exclusively Organized by Staff Recreation Club once a year.
- **Milad Ul Nabi- Celebration of Prophet Mohammad's birth.**
- **IFTAR-** celebrated in association with Students' Union and Alumni association during Ramadan. It an event in which everyone from the locality of any cast or creed whatsoever is invited to take part. Almost 2000 participants including teachers, students and common men took part in the event this year.
- **Swaraswati Puja-** Celebrated by the Students' Union during the winter months.
- **Rabindra Jayanti-** Birth anniversary of Rabindranath Tagore.

**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.**

**SPORTS**

- **University, State and National Level :** Anuja Halder was Runner Up in the Women's' inter-college Badminton Championship(2010). Played in the Calcutta University Team in the All India competition
- Melisa Ali of PG department of English represented Calcutta University in Inter-University Basketball Championship.
- Md. Shakeel of Persian Department was University Blue in Athletics (800 m) and competed at National level (2011-12, 2012-13). Currently he is being coached by Dronacharya Awardee Kuntal Roy at SAI, Kolkata.

**Co Curricular Activities**

**Drama: Staff-Student co productions:** Prof. Azhar Alam, Assistant Professor of Urdu is a noted playwright, director and actor. His group 'Little Thespian' has performed in all major theatre festivals in India. Those represented the state in the National Youth Festival organized by Department of Culture, Govt. of India, are:

1. Prof. Azhar Alam, Associate Professor in Urdu, 2010,2011,2012,2013,2014,2015
2. Tariq Ali Nayyar (Compounder, Deptt. Of Chemistry, MAC, 2010,2011,2012,1013,2014-15)
3. Hashim Mazhari (Student, 2011, 2012)
4. Aftab Alam (Student, passed MA,2011,2012, 2013)
5. Shaista Amin (student, MA 4<sup>th</sup> Semester; 2011,2012,2013)
6. Md. Faisal (Student, MA 3<sup>rd</sup> Semester, 2011, 2012, 2013)

**Drama Workshop:** Conducted by Ujjwal Chattopadhyay, Associate Professor of Economics and one of the leading playwrights in Bengal today, conducts workshops on play writing, adaptation and acting with students.

**Freshers' Welcome and Farewell ceremonies:** arranged by the Students' Union centrally and by the departments separately.

**Teachers' Day Celebration-** organized by the students in all the departments separately.

**Quiz/ Debate/ Youth Parliament/ Essay competition etc are parts of student activity every year.**

**Student's Achievements-**

- Students won the championship award at the district level Youth Parliament Competition; two of the students (Sunandan Sen and Neil Nawaj) occupied first and second position in the extempore competition in the year 2012.
- College quizzing team was Second Runner Up in Environment Quiz organized by British Council in 2009-10.
- Students from 2<sup>nd</sup> Year was the 1<sup>st</sup> prize winner in a Poster Competition in Chemistry: Service to Society, Roles and Future Responsibilities at Lady Brabourne College, Kolkata, 3<sup>rd</sup> Feb, 2012
- Students from 3<sup>rd</sup> Year were the 1<sup>st</sup> prize winner in 19<sup>th</sup> Dipta Memorial Quiz Competition at Bose Institute, Kolkata on 26<sup>th</sup> September, 2013.
- Students from 3<sup>rd</sup> Year were the 1<sup>st</sup> prize winner in Quiz Competition at Bethune College in IYC-2011 programme, Kolkata on 12<sup>th</sup> November, 2011
- Anuja Halder was Runner Up in the Women's' inter-college Badminton Championship(2010). Played in the Calcutta University Team in the All India competition
- Melisa Ali of PG department of English represented Calcutta University in Inter-University Basketball Championship.
- Md. Shakeel of Persian Department was University Blue in Athletics (800 m) and competed at National level (2011-12, 2012-13). Currently he is being coached by Dronacharya Awardee Kuntal Roy at SAI, Kolkata and the college provides him necessary support possible under the available framework.
- Students of the Microbiology Department adjudged Winners in Science Day quiz organized by VECC in 2010, won Best Poster award in 2 National Level seminars.
- Best essay in State Level essay competition was won by Anindita Bhattacharya in 2010-11.
- Students of History (H) participated in an inter college competition organized by Higher Education Department on Sir Ashutosh Mukherjee. A 2<sup>nd</sup> year student, stood 3<sup>rd</sup>.
- Anurag Dutta, 3<sup>rd</sup> year student (2014-15), recipient of Government of India Scholarship in Music (2014).
- Sourav Chatterjee, 2<sup>nd</sup> year Botany Hons , received first Prize in Poster Presentation Students Science Congress, 2015

- Akash Malitha and Arnab Dutta (2<sup>nd</sup> year Botany Hons) received first prize in Model presentation in Students Science Congress, 2015.
- Sachin Agarwal, First year Botany Hons, received third prize in Speech in Student's Science Congress, 2015.
- Subhasis Sarker, 2<sup>nd</sup> year Botany Hons, received third prize in Quiz Contest organized by Birla Tyres, 2012.
- Farheen Khanam, 2<sup>nd</sup> year Botany Hons, received second prize in Quiz Contest organized by Birla Tyres, 2012.
- Ayon Mukherjee & Tanoy Dutta, Department of Chemistry (15/12/2011 & 16/12/2011) UGC Sponsored Quiz Competition (International Year of Chemistry): Bethune College, Kolkata, 1<sup>ST</sup> position
- Ayon Mukherjee & Tanoy Dutta, Department of Chemistry (03.02.2012) UGC SPONSORED QUIZ COMPETITION (International Year of Chemistry): Lady Brabourne College and Indian Chemical Society, Kolkata, 1<sup>ST</sup> position
- Ayon Mukherjee & Tanoy Dutta, Department of Chemistry (16.09.2011) 19<sup>th</sup> DIPTA MEMORIAL SYMPOSIUM BY BOSE INSTITUTE (QUIZ COMPETITION): 3<sup>rd</sup> position
- Poulami Das, UGC SPONSORED NATIONAL SYMPOSIUM, (Debate Competition, College Level) 23/11/2011 & 24/12/2011, 2<sup>nd</sup> position
- Intra-University quiz and extempore competitions won by Fuzail Ahmed, Department of English (2012-13).
- Md. Nafish, Department of Sociology, won the Governors' Silver Medal for best cadet in Air Force Division for performance in Republic Day Parade in New Delhi, 2015.
- Arjun Dutta, Department of Sociology was awarded a prize for directing and script-writing the Best Short Film, titled 'Maid for Each Other', in prestigious Calcutta Film Festival, 2012.
- Sreemoyee Guha, Department of Sociology an outgoing BA Third Year student, won Silver and Bronze Medals at National Level Karate Competition in 2012.
- Roudrawal Dasgupta and Sharonno Banerjee Department of Sociology received prizes for their performance in a Debate Competition organized by Saint Xavier's College, Kolkata in 2014.
- Arunima Dey Department of Sociology stood First at the Sub-district Level Extempore Competition, 2012.

- Rosemary Deepika Gomes, presently a student of II year general Course has won the certificate of Appreciation on “Fight against Human Trafficking”, 2012
- Jeenia Rahaman, presently, a student of II year Hons. Course, has won the Certificate of Appreciation by Indian Red Cross Society in association with W.B. State Branch, Burdwan Dist., 2010.
- Rosemary Deepika Gomes, presently a student of II year general Course has won the Pramerica Spirit of Community Award (silver medal) for exceptional initiative in service to the community and stood top in student volunteers in the country, 2012.
- Jeenia Rahaman, presently, a student of II year Hons. Course, has participated and won the certificate in Model Competition in Dist. Student Youth Science Fair, 2012 organized by Youth Services Dept, Govt. of WB in collaboration with Education Dept., Govt. of WB, WBS Council of Science & Technology & BITM.
- Nawaj Sharif Ahmed Molla, presently, a student of III year Hons. Course has won the certificate of participating in Socio-Economic and Caste Census, 2011 as Data Entry Operator.
- Abdul Karim Mondol, presently, a student of I year Hons. Course has won the certificate of participating in voluntary Blood Donation in State Blood Transfusion in Council, 2013.
- Apart from that many students participated and won medals in College Annual Sports

### **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?**

Feedbacks are collected in prescribed proforma from the outgoing Third year students on curriculum. Feedbacks are collected from participants from all enrichment programmes and remedial programmes. Feedbacks are received from peers, funding agencies, Accountant General’s office. The faculty has the opportunity to submit feedback report in Self Appraisal mode. All inputs are discussed threadbare and action taken to overcome the deficiencies.

### **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.**

Student Publications	2011-12	2012-13	2013-14	2014-15
College Magazine	<b>Maulana Azad College Magazine is published every year</b>			

Student Publications	2011-12	2012-13	2013-14	2014-15
Student Periodical		Alokjatri December, 20 12	1.Alokjatri, April, 2013  2.Alokjatri November 2013	Alokjatri November 2014
Wall Magazines	Published by different departments			
English Journal	'Journal of English', a peer reviewed journal is published every year			
Science Journal			MAC Journal of Basic and Applied Sciences	MAC Journal of Basic and Applied Sciences
Journal on Languages and Social Sciences				MAC Journal of Languages and Social Sciences.

### 5.3.5 Does the college have a Student Council or any similar body? Give details on its selection, constitution, activities and funding.

- The Students' Union of Maulana Azad College is governed by a constitution framed in the year 1998 for this purpose. The Constitution envisages the role of a body of the bona-fide students as viable representative of the student community of this college.
- The Class Representatives are elected by voting from among the bona-fide students of the class he/she is representing.
- The Elected Class Representatives then elect the Office Bearers from among themselves.
- The General Secretary of the Students' Union is deemed to be a member of the Governing Body.
- The body, as stakeholders, can deliberate on the issues of Students' interest, can help in maintaining the general order and discipline inside the college, help students make aware of different benefit schemes, arrange social events and can perform similar other roles.
- Funding of the Students' Union is made through voluntary collection of a nominal amount, as endorsed by the authorities, by all the students.
- The Present Body was elected in a poll held on 18<sup>th</sup> January 2014 and the office bearers were elected by them on 22<sup>nd</sup> January 2014.

**5.3.6 Give details of various academic and administrative bodies that have student representatives on them.**

- Governing Body: General Secretary, S.U. is an ex-officio member.
- IQAC : General Secretary, S.U. is an ex-officio member

**5.3.7 How does the institution network and collaborate with the Alumni and former faculty of the Institution.**

The College networks and collaborates with the Alumni through meeting held periodically, the College website and social networking sites. The General Secretary, Alumni Association, coordinates all such collaborative programmes. Past students are very actively associated with special events like, Social, Freshers' Welcome or Iftar celebrations in the college. Alumni are frequently invited to share their experiences with present day students.

**Any other relevant information regarding Student Support and Progression which the college would like to include:**                      **None**



## **Criterion VI: Governance, Leadership & 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.?**

The vision is to strive for inclusiveness without compromising with the quality. The college was established in 1926 (in the name of Islamia College) as an institution for bringing primarily the Muslims of Bengal to the mainstream of education. Since then, it has been trusted as one of the premier institutions of the country where the pupil grow into modern and responsible citizen of India. Its gates were opened to students of all cast, creed and religion before independence and during 1990s, it became a co-educational institution. Numerous girl students, who had been first or second generation learners, found an oasis in this institution. Students from all across the state and outside are trained in an environment which they continue to repose faith on, as an epitome of amity and harmony. Merit has never gone waste here, in all these years, for want of resources. Fund is an impediment for a large section of our students who do not hail from well to do families. But once he or she is selected, it becomes our responsibility to see that his/her educational needs and also his/her needs for a place to live in. However, we have never compromised with quality of education that we provide here. Maulana Azad College has earned its repute not for benevolence but for its students who have excelled in all different fields and above all, who have been proud citizens of India.

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

The Institution is fully managed by Higher Education Department, Government of West Bengal. The Principal as administrative head is accountable to Director of Public Instruction, West Bengal. However, the administration is facilitated by (a) IQAC (b) a set of sub-committees formed by the Teachers' Council, and (c) the Head of the Departments. The IQAC and the sub-committees formed by the TC design and implement all the affairs relating to the college's day to day activity. Right from admission to conducting elections for students' union, the sub committees mastermind almost every academic and administrative strategy. The Head of the Departments are responsible for assessing the academic and administrative progress of respective departments. They assign the syllabi for all teachers in a course, look over performances of the assignees, take feedback from the students and parents, monitor each and every student's weakness and strength, frame the budget, manage the resources and in

association with IQAC undertake SWOC analysis in real terms. It becomes the responsibility of the Principal and the government to address the issues if the need be.

### 6.1.3 What is the involvement of the leadership in ensuring?

#### - the policy statements and action plans for fulfilment of the stated mission

- Every detail of the admission, budgeting infrastructure augmentation etc are clearly worked upon, at the beginning of any session. The Secretary, Teachers' Council, the coordinator, IQAC, the conveners of different sub-committees, the Research Committee and the Head of the departments take all steps necessary to ensure that the quality is never compromised.

#### -formulation of action plans for all operations and incorporation of the same into the institutional strategic plan

- Incorporation of key findings from Feedbacks of the students.
- Incorporation of enrichment program through repeated interactions with peer bodies, other institutions and faculty.
- Inputs from alumni, who are pursuing higher studies and research, have been very important in framing curriculum and put it into practice.

#### -Interaction with stakeholders

- The Teachers' Council is perhaps the strongest forum for designing and implementing policy statements. The Principal poses his confidence on the Council to streamline the academic issues.
- Student's union of the college is the official representative of all students and they keep a close connection with the head of the institute and interact with him as and when required, in addition to existing student feedback system.
- The alumni do boast of a strong connection with their *alma-mater*. Their feedback had always been very productive.
- Teachers meet parents/guardians from time to time and the college authority takes their suggestion in consideration for the betterment of the formulation of the policy and plans.
- Communication with University peers is a regular process and practice of this institution. Interaction with University peers have much helped in formulation of design of curriculum, academic calendar, script evaluations etc.

#### -Proper support for policy and planning through need analysis, research inputs and consultations with the stakeholders

Feedback from different stakeholders is the most important basic support in designing policy and planning. Apart from feedback student results and local needs of the society provide support for the policy and planning. Need analysis through feedback from curricular and enrichment programmes, from students attending remedial courses, from experts in different committees, from research scholars, from parents and alumni taken into account in framing policies relating to infrastructure and curriculum augmentation.

**-Reinforcing the culture of excellence**

Benchmarking is the principal way of reinforcing the culture of excellence. Over the years, we have put ourselves to test, by different benchmarking authorities like UGC, DBT, and DST etc. Our preparedness for these tests ensures the process of reinforcing.

**-Champion organizational change**

The college is under direct administrative control of Government of West Bengal. The recruitment, promotion, and transfer etc are directly under control of Department of Higher Education, Government of West Bengal, and therefore, the Institute has little scope for organizational change.

However, academic autonomy in PG courses does exist. The Secretary, Teachers' Council and the Students' Union are elected afresh each year, so does the IQAC and all other sub committees. Usually, the senior-most in a Department assumes the charge as Head. Being transferable, the service provides ample scope for change in personnel.

#### **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?**

- The Higher Education Department takes the Principal into confidence for prioritizing its needs.
- The Governing Body includes representatives from Students' Body, Teachers' Body and Non-teaching Staff. They evaluate the implementation of plans and policies in keeping with the priorities cut out well beforehand.
- The IQAC undertakes survey and report based on proposals and findings.

#### **6.1.5 Give details of the academic leadership provided to the faculty by the top management**

The college administration has provision of inclusion of representatives of Higher Education Department and the experts in Governing Body, IQAC etc. The administration looks into the fact that every member of the faculty is given one responsibility or the other. The young members are gradually exposed to the affairs of admission, discipline maintenance, evaluation, budgeting and purchasing etc through their participation in different sub-committees.

#### **6.1.6 How does the college groom leadership at various levels?**

By giving them responsibilities in managing the academic and administrative affairs:

- **Teachers' Council:** The College has a statutory body of teachers referred to as Teachers' council (TC). The secretary of the TC is elected by the teachers themselves and the tenure of the Secretary is usually one Academic Year. There are several sub-committees which work under the leadership of the Secretary, TC. Each sub-committee has one or more conveners who would be accountable to the Teachers' Body for activities under defined areas. The Principal is the President of

the TC and for academic and administrative activities he has the freedom of consulting the TC and which he usually does. This system grooms the teachers and enables the teachers to take responsibilities in all academic and extra-academic affairs.

- **IQAC:** Eight to ten teachers, one non-teaching staff and one student are nominated to the IQAC by the Teachers' council and Students' Union Council. Their roles and importance in executing policy decisions have been in consonance with the requirements of the Peer body.
- **Governing Body:** The GB has two elected members from the teachers, one non-teaching staff and the Elected General secretary of the Students' Union.
- **Students' Union:** The students have their own recognized body or council. This is an elected body and does ensure prevalence of a democratic, healthy environment in the college. The office bearers of this body include General Secretary, Magazine Secretary and Cultural Secretary etc. That way they are inducted in the process.
- In addition, programmes like Youth Parliament, Quizzing, Debating, NSS activity etc are important leadership building exercises.
- Organizing regular seminars, workshops for the students and faculty members are also important leadership building exercises.

#### **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?**

Since 2010-11 the college is following the UGC-CPE assistance scheme as model for delegating power and operational autonomy towards a decentralized governance.

The planning and development protocol are sub divided into 5 Broad Heads: Teaching (UG), Teaching (PG), Research, Extension and Other Activities. Each of these broad heads is further sub-divided into 5 minor heads and for each of these schemes there is a nodal person who in association with other stakeholders brings the projects into reality. Currently the autonomously functioning units are:

##### **A. Teaching and Evaluation(UG):**

###### **i) Improvement of Laboratories:**

Target areas:

- Improvement of Science UG Laboratories
- Improvement of Classrooms with ICT facilities
- Improvement of Language laboratory

###### **ii) Improvement of Library:**

To implement:

- OPAC facility for all
- To preserve and restore rare books and manuscripts

###### **iii) Improvement of Departmental Libraries**

To enrich all departmental seminar libraries for augmenting the dual borrowing-lending system.

iv) **Cultural affairs and Sports:**

The college organizes cultural programmes round the year. The College magazine is published annually. Two ISSN coded journals are published and the nodal persons are in overall supervision of these activities.

v) **Research, Industry, Institution Interface initiative:**

This is an initiative to provide access and exposure to senior students of Undergraduate Classes to Research Laboratories and industries of repute in the country. Entrepreneurship development as well as 'Lab to Field' strategies would form a key part of this focal area.

**B. Teaching and Evaluation (PG):**

The key areas are:

- Infrastructure development
- To harness grants from funding authorities.
- To conduct and upgrade the Examination system
- To guide and monitor the progression of students
- To implement outreach activities by involving the PG students.

**C. Research:**

The key areas that are addressed include:

➤ **CICARS (Central Instrumentation Centre for Advance Research Support).**

➤ **Socio-Economic Studies and Arts Journal**

A publication named '**Wanderings on Women, Work, Well Being and War**' has been the outcome of this initiative which was partly funded by CPE grant. The college publishes two **MAC journals**, one covering the areas in humanities and social studies the other is a Science journal. Both are peer reviewed and ISSN coded. The committee monitors this activity.

➤ **Oriental Languages**

Six different languages namely, Sanskrit, Bengali, English, Urdu, Persian and Arabic are taught in this college. The language departments design and implement interdisciplinary activities under its aegis. Completed projects include a Translation work of Jnanpeeth Award winning poet Bishnu Dey from Bengali and those of another doyen of Indian English writing Jayanta Kumar Mahapatra.

➤ **Women and Gender studies.**

This college has opened its door for women only a decade ago. Within this short period of time, however, the girl students are almost outnumbering the boys. The women faculty strength is also very impressive. Considering the fact that majority of the girls are coming from minority communities and many of them are only first generation women learners, this college opened a Women's' Study Centre during the previous phase. Full scale research projects would be undertaken under this scheme now.

**D. Extension:** The College undertakes several extension activities round the year.

✓ **Water testing laboratory as general utility service for public**

This college is located in a densely populated area and people are largely dependent on Municipal Water Supply. The incidence of water-borne diseases is very high throughout the city. The college locality is no exception. Moreover, we have a Hostel with about 200 boarders. The water testing facility was already there in the Microbiology Laboratory of the College since the time of our first accreditation. Water samples from households and public places are accepted for screening and observations are given in writing.

✓ **ICT skill development and certificate course for SC/ST/minorities**

There were 72 beneficiaries during the first phase of this programme which was instituted in 2011 with a view that some facilities can be opened to the pupils of the locality who are not stakeholders here. Imparting soft skills is one of them. Considering the number of students who get admitted here from marginal backgrounds, it was felt that this project would be beneficial for them. Hence under the guidance of qualified trainer's soft skill development of uninitiated students were taken up.

✓ **Collaboration with NGOs**

Activities by NGOs are important part of the civil society movement. They help the 'marginalized' by providing direct help and also by creating awareness among the target population of their rights .The NGOs also pursue, on behalf of the victims, the implementation of the Govt. programs. Since 2006, Maulana Azad College have been organizing seminars, workshops etc as awareness and entrepreneurship endeavours.

**E. Other Activities:****i) Improvement of IT enabled Admission and student Support System:**

The college wants to ensure a transparent; hazardless IT enabled admission in the College and Hostel. A dedicated team works round the year to manage the admission process which is completely online barring the counselling phase which is completed in the college. Registration, database maintenance, student support system in examination, migration, transfer and other related areas require an efficient and skilled team. Delegation of substantial power to them had been of great help in furthering the mission of this college.

**ii) Prize-scheme for academic and all round excellence.**

To recognize the achievers among the students and to encourage the students the college organizes Prize Distribution Ceremony annually. Students are recognized on the basis of their performance in University examination, college examinations, and their attendance in classes, their all-round achievements and special achievements, if any. The committee works throughout the year in association of the departments to organize this event.

**iii) Anti- ragging cell and student counseling cell.**

The anti ragging cell was established quite a few years back in this college. We have put in best of our efforts to completely eradicate the incidence of ragging in Baker Hostel and the college. Presently, the students have to submit an undertaking in judicial paper to the effect that he or she would be liable to be punished in the event of involvement in such untoward incident. In addition, we have found that some students have to be counseled every year to address lack of motivation, incompatibility, lack of confidence and similar other phenomena that affect their performance. This cell looks after their affairs as well.

**iv) Establishment of memorial lectures.**

We propose to institute two memorial lectures each year under this scheme, to be named after eminent alumni to be finalized in consultation with the Alumni Association. The first endowment lecture in the memory of our ex-faculty Prof. Binayak Sanyal has already been instituted.

**6.1.8 Does the college promote a culture of participative management? If ‘yes’, indicate the levels of participative management:**

Yes

- Two members of the faculty are elected by the TC to be the Teacher Members in Governing Body.
- One non-teaching staff is nominated to the Governing Body.
- The General Secretary of the Students’ Union is a member of the Governing Body.
- The Teachers’ Council nominates its members to different sub-committees that look after almost every aspect of management.
- The IQAC has nominated representatives of the Teachers’ Council to look after planning and implementation of vision and mission 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?**

Our policy is based on inclusiveness without compromising with the quality.

The deployment of this policy is reflected in many aspects. Some highlights are as follows:

- ⇒ The College has a well-defined admission policy as issued by the Department of Higher Education, Government of West Bengal.
- ⇒ For sustenance and improvement in quality, a number of assistance schemes such as ‘merit-cum-means’ scholarships, free or half-free studentship , ‘Kanyashree’ support scheme etc are offered to the deserving students.
- ⇒ Slow learners are supported through Tutorials, Remedial Coaching, IT training etc.
- ⇒ Students are also given guidance in career options through the Career Counselling Cell, NET-SET coaching centre and entry into services coaching centre of this college.
- ⇒ All teachers including the Part Time teachers are NET/ SET qualified and that has positive effect on sustenance of quality in teaching-learning.
- ⇒ Extensive use of ICT in academic and administrative affairs gives an edge in deployment of quality policy. Library, student data base, tendering and payment all have been digitalized.
- ⇒ The Library, one of the richest in niche areas of classical medieval literature has vied for and obtained recognition as an archive.



- ⇒ Decentralization has been the hallmark of our quality sustenance endeavour. As described in 6.1.7, five areas are identified to be addressed from all quality management related issues: Teaching (UG), Teaching (PG), Research, Extension and any other which includes administrative and outreach endeavours.
- ⇒ The IQAC receives inputs from all nodal persons, frames policy statements and looks over the mechanism and transparency in processes of implementation.
- ⇒ The college has a Research Committee in place which reviews the proposals, transmits these to competent agencies and monitors the implementation of the projects.
- ⇒ Developing and enriching the infrastructure to support major research in sciences was another area we focussed on. Central Instrumentation Centre has been built. High end instruments have been procured and allowed us to garner several major research projects and two patents have been materialized.

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

Given hereunder a perspective plan drawn out in consultation of Nodal Persons, departments and IQAC for the CPE years 2010-11 to 2013-14 (operative till 31 March 2015):

The Institute does have a perspective plan and the aspects considered are broadly discussed in 6.1.7. The key areas considered for inclusion include:

- **TEACHING AND LEARNING:**

- i. Infrastructure development and improvement of Laboratories
- ii. Improvement of Library
- iii. improvement of Departmental libraries
- iv. Industry – Institution Interface initiative.
- v. Student support programmes.
- vi. Improvement of PG (autonomous) Examination system.
- vii. Career counseling initiatives.

- **RESEARCH:**

- i. Mobilization of funds for research from CPE grant
- ii. To develop motivation for research work and research guidance among the faculties.
- iii. To encourage major improvement in publication record.
- iv. To establish more collaborative research works.
- v. Publication of Institutional research journals.

- **GOVERNANCE**

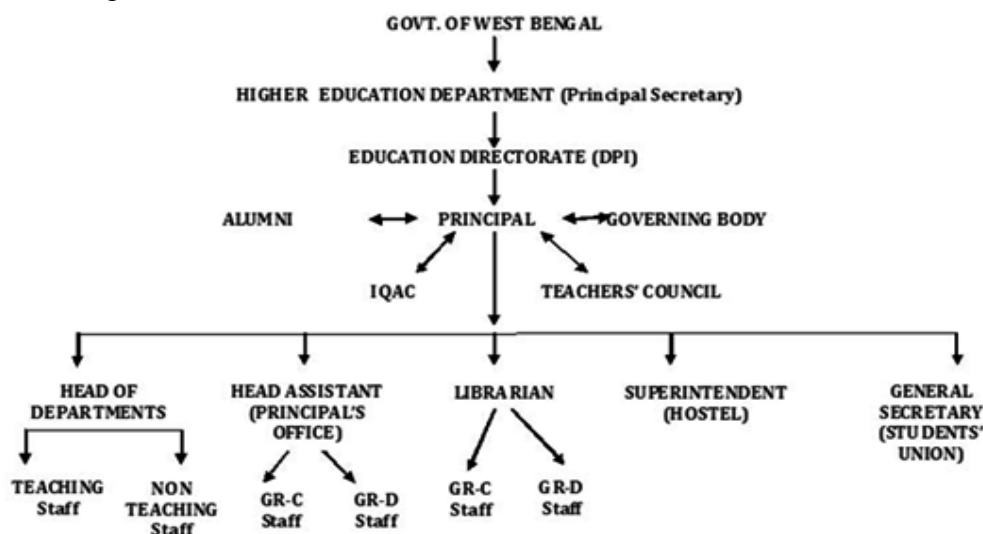
- i. Transparent and fully operational online admission process.
- ii. Digitalization of student database
- iii. E-payment through the E-PRADAN portal of Government of West Bengal
- iv. Logical and prioritized budgeting and allotment.
- v. Distribution of scholarships effectively.

- **EXTENSION:**

- Extra-academic add on programmes for students of the science laboratories.
- Certificate Courses on Computer Application for the uninitiated students.
- Improved SEBCA(School of Environmental and Biodiversity Conservation and Awareness) activities in association with beneficiaries
- Encouraging all activities aimed at maintaining amity and harmony among the students.
- Recognition and award for achievers in academic and co-curricular activities.
- Taking all initiatives in keeping the campus clean and green

### 6.2.3 Describe the internal organizational structure and decision making processes

The internal organizational structure and decision making processes can be depicted in the following chart:



**Fig. 1: Flow-chart showing internal organizational structure**

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

#### -Teaching & Learning

Since 2010-11 the college follows the UGC-CPE guideline as model for improving quality of the institution. Some of the strategies are described bellow-

- Improvement of Science UG Laboratories
- Improvement of Classrooms with ICT facilities
- Improvement of Language laboratory
- OPAC facility for all
- To preserve and restore rare books and manuscripts.
- To enrich all departmental seminar libraries for augmenting the dual borrowing-lending system.
- To harness grants from funding authorities.
- To conduct and upgrade the Examination system
- To guide and monitor the progression of students
- To implement outreach activities by involving the PG students.

**-Research and Development**

- ❖ Up gradation of all science laboratories and language laboratory to support advanced research works.
- ❖ Central instrumentation Facilities supports interdisciplinary research activities.
- ❖ E-Inventories like JSTOR are being subscribed to facilitate all users.
- ❖ The college has facility and scholar sharing agreement with several Indian & Foreign Universities and institutions.
- ❖ The proposals are forwarded to funding agencies without any delay at the office end.
- ❖ Funds sanctioned by the different agencies are released without delay as and when required by the researcher.
- ❖ The College provides major infrastructural facilities like library, laboratory, computer and internet facilities to pursue research activities.
- ❖ Laboratory facilities, equipments, Internet, LAN and other ICT enabled research support system, etc. Are made available to researchers
- ❖ Scholars are provided freedom in using laboratories in non-college hours and holidays. Their remunerations and contingencies are taken care of.
- ❖ The College has harnessed grants from various funding agencies like UGC, DST, and DBT etc.
- ❖ Facilitate timely auditing and submission of utilization certificate to the funding authorities
- ❖ Initiatives are taken for regular Publication of Journals on science, social science and languages.

**-Community engagement**

- Water Testing Lab under microbiology department undertakes quality check of drinking water of the locality free of any charge.
- Schools of the locality are adopted for interactive environment awareness initiatives
- NSS activity positively benefits the locality.
- Nationally important events like Independence Day celebration, Republic Day celebration and social events like Iftar, Milad-un-Nabi, Swaraswati Puja, college cultural events etc are celebrated with all people of the locality irrespective of caste, creed and religion.

**-Human resource management**

- There is no specific HR department in the college. However optimum and efficient deployment of human resource is an integral part of any management initiative. Our Part Time teacher and Guest Teacher engagement policies and optimization of services offered by them, are based on their involvement in policy making in academic affairs of the college.
- Vacancies in non-teaching positions are under the purview of WBPSC. Our policy

involves sharing a lot of work, normally assigned to the support staff, by the members of the faculty. We have designated committees for Service Record preparation, examination control and student support management from among the members of the faculty.

#### **-Industry interaction**

Following are the few nascent initiatives taken-

- ✓ Students of 2<sup>nd</sup> and 3<sup>rd</sup> year of Department of Microbiology visited United Breweries, Kalyani, North 24 Pgs accompanied by four faculty members in 2011.
- ✓ Students of 3<sup>rd</sup> Year B.Sc (H) Microbiology visited State Dairy Farm, Haringhata, South 24 Parganas, West Bengal accompanied by three faculty members of the department in 2012.
- ✓ Students of 2<sup>nd</sup> and 3<sup>rd</sup> Year B.Sc. (H) Microbiology visited IFB agro industries at Noorpur, South 24 Pgs. West Bengal accompanied by four faculty members in 2015.
- ✓ In 2015, the following industries interacted with the students and 11 recruitment offers materialized by the Student Placement cell:  
TCS, Axis Bank, Genpact, Reliance, Marriott, Jet Airways (GS), Concentrix, ITC

#### **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?**

**Table 6.1: Details of the Feedback mechanism**

<b>Programme</b>	<b>Students from whom feedback are sought</b>	<b>Nodal Department/ Coordinator</b>	<b>Key observations</b>
UG Degree course	Final year students	All UG departments	Majority of the Students respond without any bias.
PG courses	Final year/semester students	English, Urdu, Zoology	Students are generally satisfied with efforts of the teachers.
Remedial Coaching Programmes	All participants	Dr. Nanda Das, Dept. of Mathematics	General category students also preferred to attend these courses.
Hands-on Programmes	All Participants	Physics, Chemistry, Microbiology, Botany, Zoology	All such programmes are extremely successful and appreciated by DBT as well.
NET/SET coaching Centre	All participants	English, Urdu, Zoology	Satisfactory
Entry into services programme	All Participants	Prof. J.Ahmed, Dept. of IHC	Satisfactory
ICT Training Programme	All participants	Dr. D.P.Chaterjee, Dept. of Sociology	Beneficial to a large extent

**Feedback from other stakeholders:** From time to time the Peer bodies like DST, DBT and off course the UGC conduct through academic and financial auditing on the basis of which the college's performance is judged and continuation of the schemes are decided upon.

- **UGC** had granted us the CPE status on the basis of their extensive survey and feedback report obtained by the team designated by the University of Calcutta
- **DBT:** The DBT star college programme has been extended for another 2 years on the basis of feedback obtained from external observers engaged by them.
- **DST:** Feedback from DST was obtained through ‘defend the award’ meets at New Delhi. The implementation was highly appreciated.
- **From alumni:** Alumni meet and record their observations on shortcomings and achievements of the college.
- **From guardians in Parents-teachers meetings:** Parents/guardians of every batch of students meet the teachers at least once a year and put their observations in record.

**Feedback report percolation mechanism:** The information generated out of this feedback mechanism is instrumental in streamlining the parameters that would have to be taken care of. The information is percolated to the Director of Public Instruction and the Principal Secretary, HE Department who reflect upon the measures to be taken. The Principal annually submits Confidential Reports to rate a teacher or staff’s performance and this forms the basis for Career Advancement of an incumbent.

#### **6.2.6 How does the Management encourage and support involvement of the staff in improving the effectiveness and efficiency of the institutional processes?**

- By delegating power to academic and administrative staff to effectively garner their support and involvement.
- By having teaching and non-teaching staff along with students in key decision making bodies.
- By encouraging the teachers and staff to take up skill enhancement trainings and granting them proper leaves for the process.
- Principal makes him available to all sections of stakeholders and ensures that the deserving incumbents are rewarded.

#### **6.2.7 Enumerate the resolutions made by the Management Council in the last year and the status of implementation of such resolutions.**

The following are the resolutions taken in the last meeting of the Governing body:

<b>Resolution</b>	<b>Status of Implementation</b>
1. Proposal for return back of College Ground from minority affairs Department and the Government may be moved in this regard.	Not yet done
Proposal for Education Honours introduction has been send to Government.	Not yet approved
Proposal for second campus and girls hostel	On the verge of completion
Introduction of add-on courses like communicative English, French and other languages	Implemented under CPE scheme

**The Teachers' Council:** The Teachers' Council is the statutory body of the teachers that plays most important role at the college level to frame and implement the policies that reflect the vision and mission of the college. The Principal is the President of the Council. The council elects a General Secretary from among the teachers every year. The Council has several sub committees under it which through their yearlong activities in designated areas carry out all major academic and administrative decisions.

	Meeting	Date	Agenda
1.	Teachers' Council Meeting	28.08.2010 at 1 pm	1. Confirmation of the proceedings of the last meeting. 2. CPE related matter 3. UGC merged scheme under XI plan 3. Miscellaneous
2.	Teachers' Council Meeting	6.10.2010 at 2 pm	Teacher's Council Secretary selection for the Academic Session 2010-11.
3.	Teachers' Council Meeting	15.12.2010 at 3.30 pm	Change of Teacher's Council Secretary
4.	Teachers' Council Meeting	12.01.2011 at 3.15 pm	Teacher's Council Secretary selection for the Academic Session 2010-11.
5.	Teachers' Council Meeting	21.01.2011 at 3 pm	1. Result consideration of the midterm, 2010 2. Formation of different sub committees of the College 3. Miscellaneous
6.	Emergency Teachers' Council Meeting	17.02.2011 at 3.15	Ensuing visit of Hon'ble Foreign Minister, Bangladesh, Mrs .Dipu Moni and Hon'ble Chief Minister Sri Budhadeb Bhattacharya on 23.02.2011
7.	Teachers' Council Meeting	7.03.2011 at 3 pm	Regarding Students' Union Election 2011
8.	Teachers' Council Meeting	2.05.2011 at 3 pm	1. Confirmation of proceedings of last meeting 2. Criteria for admission to B. Com/B. A./ B.Sc Honours 3. Miscellaneous
9.	Teachers' Council Meeting	2.06.2011 at 2.30	1. Admission procedure and criteria, 2011-12 2. Miscellaneous
10.	Teachers' Council Meeting	30.06.2011 at 12.30 pm	Admission related matters
11.	Teachers' Council Meeting	5.07.2011 at 3.15 pm	To discuss the B. A./ B. Sc./ B. Com, 2011
12.	Teachers' Council Meeting	15.11.2011 at 1.15 pm	1. To welcome the Principal Dr. Dipak Ranjan Mandal 2. Dates for the midterm examination of 1 <sup>st</sup> year and 3 <sup>rd</sup> year examination

	Meeting	Date	Agenda
13.	Teachers' Council Meeting	23.04.2012 at 3.30 pm	Selection/Election of Secretary of Teacher's Council
14.	Teachers' Council Meeting	24.05.2012 at 1 pm	1. Admission to 1 <sup>st</sup> year UG courses 2. Matter arising
15.	Emergency Teachers' Council Meeting	10.09.2012 at 3 pm	To discuss the Inspection Report of the Committee formed for investigating a recent incident in the Zoology Laboratory
16.	Teachers' Council Meeting	27.09.2012 at 3 pm	To welcome Dr. Dipak Ranjan Mandal, Director of Public Instruction, West Bengal and former Principal of Maulana Azad College
17.	Teachers' Council Meeting	1.10.2012 at 3 pm	CPE programme
18.	Emergency Teachers' Council Meeting	4.01.2013 at 3 pm	To welcome Prof. Pratap Chandra Roy
19.	Teachers' Council Meeting	25.04.2013	1. Regarding new secretary of Teachers' council 2. Regarding admission procedure of the college for 1 <sup>st</sup> year students 3. Regarding NAAC Re-accreditation of the college 4. Matters arising
20.	Admission Committee meeting	31.05.2013 at 12 noon	To review the admission process
21.	Emergency Admission Committee meeting	6.06.2013 at 12 noon	To reconsider the criteria for application for admission 2013
22.	Emergency Teachers' Council Meeting	5.07.2013 at 12 noon	For smooth running of UG admission
23.	Teachers' Council Meeting	23.07.2013 at 2 pm	To select/elect secretary of Teachers' Council
24.	Emergency Teachers' Council meeting	01.08.2013 at 2.30 pm	Admission related matters
25.	Teachers' Council meeting	27.08.2013 at 1.15 pm	1. Confirmation of minutes of the previous meeting 2. Career Advance scheme (CAS) 3. Formation of Sub-committees 4. Evaluation of answer scripts of C. U. Examinations 5. Matters arising
26.	Teachers' Council meeting	18.09.2013 at 3 pm	1. Confirmation of minutes of the previous meeting 2. Status of CPE scheme 3. IQAC matters 4. Preparation for NAAC 5. Matter arising
27.	Teachers' Council meeting	06.12.2013 at 3 pm	To discuss separate Placement and Career Counselling Sub-

	Meeting	Date	Agenda
			committees formed. Progress on NAAC, CPE and DBT-DST schemes
28.	Teachers' Council meeting	27.03.2014	To discuss UG Admission 2014 plan and implementation of Government Order to reserve seats for OBC quota
29.	Teachers' Council meeting	8.04.2014 at 2 pm	UG admission
30.	Teachers' Council meeting	26.06.2014 at 2 pm	1. UG admission 2014 2. Matter arising
31.	Teachers' Council meeting	28.08.2014 at 2 pm	1. Confirmation of minutes of the previous meeting 2. Nomination of the secretary of Teachers' Council 3. Matter arising
32.	Teachers' Council meeting	18.09.2014 at 2 pm	Different Sub-committees of the Teachers' Council formed
33.	Teachers' Council meeting	19.02.2015 at 3 pm	1. Confirmation of last meeting 2. CAS related 3. NAAC related 4. Discussion of University results and related issues 5. Students' profile and academic details 6. Matters arising
34.	Teachers' Council meeting	30.03.2015 at 3 pm	1. Confirmation of last meeting 2. Nomination of two teachers' representative for GB 3. Formation of IQAC committee 4. Progress of NAAC related work
35.	Emergency Teachers' Council meeting	29.06.2015 at 1.30 pm	1. Confirmation of last meeting 2. Admission related matters 3. NAAC related matters

**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?**

The institution is under the administrative control of Higher Education Directorate of the Government of West Bengal and under the academic control of University of Calcutta. The Directorate does not have any policy as yet in allowing this government college to seek autonomy. However certain highly rated departments have autonomous PG courses and the University has conferred that Autonomous PG status on these departments. These Departments are:

1. Department of English from 2009 – a materialization of 1<sup>st</sup> Cycle recommendations of NAAC



2. Department of Urdu from 2009- also a materialization of NAAC recommendations
3. Department of Zoology from 2000

**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?**

The College has a Grievance Redressal Cell, a Cell Against Sexual Harassment and an Anti Ragging Cell. Grievances can be lodged verbally or by phone. However, during the tears of report there had not been a single complaint of sexual harassment. Ragging instances are few and far between. Ex-army personnel are engaged for security and surveillance aided with CC TV cameras. However, all efforts are taken to resolve the complaints to the satisfaction of the aggrieved.

**6.2.10 During the last four years, had there been any instances of court cases filed by and against the institute? Provide details on the issues and decisions of the courts on these?**

- No

**6.2.11 Does the Institution have a mechanism for analyzing student feedback on institutional performance? If 'yes', what was the outcome and response of the institution to such an effort?**

-Yes.

Institutional mechanisms involve,

- ✓ Departmental committee assessments,
- ✓ Teachers' Council assessments
- ✓ IQAC's assessments
- ✓ Peer assessments.

Outcome and responses:

- ✓ Reflection of a teacher's relative strength and weakness.
- ✓ Reflection of the views of the students about the existing infrastructural facilities provided to them.
- ✓ The outcome enables the institute to design and/or modify action plans.

## **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?**

- Mandatory participation in Orientation programme and Refresher Course for the faculties.
- Participation in Workshop, Seminar and Conference

- Participation in faculty improvement programme (FIP)
- Women empowerment through Training
- Technical skill development of Non-teaching staff through various training programmes.
- Internal transfer of non teaching staff between various academic departments and office.

**6.3.2 What are the strategies adopted by the institution for faculty empowerment through training, retraining and motivating the employees for the roles and responsibility they perform?**

- ✓ Teachers are encouraged to participate in various professional development programmes,
- ✓ To consider such participation in various professional development programmes as an important eligibility criteria in career advancement scheme.
- ✓ Provision for duty leave while attending such programmes.

**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.**

- Evaluation of employees by the Principal is reflected in Annual Confidential Reports (ACR) and Special Confidential Reports (SCR) prepared for each employee.
- Monthly self appraisal forms are filled in by the faculty members that include their day to day attendance, hours of work, number of classes taken and other activities performed. These appraisal forms are periodically sent to the Higher Education Department, Govt. of West Bengal.
- Departmental level meetings are held regularly to monitor the performances of faculty members in their distributed work load.
- Timely appraisal to different funding authorities (UGC, DBT, DST etc) through Progress Reports and Utilization Certificates in respect of existing schemes/projects.

**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?**

**Outcome**

- Performance Appraisal Reports are integral parts of CAS procedures that are followed. In addition, ACR and SCR form important requirement for promotion of any employee as per rules. Both procedures entail percolation of information if inadequacy is to be reported.
- Departments submit analysis of feedback reports and suggest measures for improvement to the Principal.

**Communication**

- Through departmental meetings

- Through teachers' council meetings
- Meeting with academic peers
- Meeting with parents
- Through meeting of Board of Studies

**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?**

- ✓ Medical Treatment for employees through West Bengal Health Scheme.
- ✓ Provision of recruitment on compassionate ground in case of dying in harness.
- ✓ All employees are covered under General Provident Fund rules of Government of WB.
- ✓ All employees are covered under Group Insurance Savings Scheme.
- ✓ Employees can obtain loans for purchase of computer.
- ✓ Once before the superannuation, an employee can avail of a one-time LTC facility for tours undertaken within the country. Almost all employees avail this.

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

- The college has minimum scope in this regard as the college is under direct control of Higher Education Department, Government of West Bengal. However, the college administration renders every possible opportunity in execution of research and other academic activities.
- Highly acclaimed academicians are included in the Post Graduate BOS to render good academic ambience.

**6.4 FINANCIAL MANAGEMENT AND RESOURCE MOBILISATION**

**6.4.1 What is the institutional mechanism to monitor effective and efficient use of available financial resources?**

There are established procedures and processes for planning and allocation of financial resources. The institution has developed strategies for mobilizing resources and ensures transparency in financial management of the institution. The income and expenditure of the institution are subjected to regular internal and external audit.

**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.**

Internal audit is done by the senior faculty members selected by the Principal in consultation with the treasurers of college fund. External audit is done by

Government Auditors. Audit of other grants (UGC, DBT, DST) is done by reputed Chartered Accountants.

Date of Audit	Period	Major audit objections	Details on compliance
24/12/2012-31/12/2012	01.09.2009-30.11.2012	'Procurement of article at a price more than the MRP'	<p>1. On scrutiny of identified bills a total of Rs. 83.14 only has been found as excess amount.</p> <p>2. Letter for adjustment of excess amount has already been issued (vide No. 482/2AC dt. 10.01.2015)</p> <p>3. To rule out repetition of such undesirable practice in future on each bill the supplier is required to certify "No excess billing"</p>

**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 college is fully administered by the Department of Higher Education, Government of west Bengal. The receipts are deposited to the government exchequer in its entirety. The Government provides development fund under its 'Plan Head' of expenditure and accounts for all other major components including salaries form its 'Non-Plan Head'.

**Table: 6.4 : Government Allocation for the last 5 years.**

Year	Non-Plan Head (Rs.)			Plan Head (Rs.)		Total Expenditure (Rs.)
	Recurring		Non- recurring	Recurring	Non- recurring	
	Salary	Others				
2010-11	81505400	4089014	953135	539998	1100000	88187547
2011-12	83043800	3453350	3379868	850000	1600000	92327018
2012-13	63635610	2369658	-	530000	1100000	67635268
2013-14	74130000	2561000	-	200000	880000	77771000
2014-15	77120190	3843911	2150000	410000	350000	83874101

Other major sources of Institutional receipts are (i) UGC grants (ii) DST grants and (iii) DBT grants. Expenditures are incurred in such a way that there is no deficit.

However, the salary account sometimes shows a deficit but that is taken care of by the Exchequer.

**Table 6.5: Government Allocation for the last 5 years to PWD, Government of West Bengal for Civil and Electrical Works in favour of Maulana Azad College:**

Financial Year	PWD Allotment
2009-10	Rs. 3,71,6,280/-
2010-11	Rs. 65,01,107/-
2011-12	Rs. 19,38,644/-
2012-13	Rs. 1,13,51,960/-
2013-14	Rs. 25,06,755/-
2014-15	Rs. 95,38,396/-

**Table 6.6 : UGC Assistance for the XI Five Year Plan:**

Sl No.	Scheme	Grant allocated	Grant Received	Grant Utilized upto 31 <sup>st</sup> March 2012	UC Status
1.	General Development Grant for UG	19,00,000/-	8,32,320/-	8,32,320/-	Audited UC submitted
2.	General Development Grant for PG	8,00,000/-	4,75,000/-	4,74,025/-	Cash in hand Rs. 975/-
<b>Merged Grants</b>					
1.	Colleges with high SC/ST/OBC & Minorities	6,00,000/-	4,20,000/-	4,20,000/-	Audited UC submitted
2.	Special Grant in enhancement for capacity building	7,00,000/-	80,000/-	80,000/-	Audited UC submitted
3.	Remedial Coaching for SC/ST/OBC/Minorities	10,00,000/-	9,00,000/-	9,00,000/-	Audited UC submitted
4.	NET/SET Coaching Centre for SC/ST/OBC/Minorities	7,50,000/-	6,70,000/-	7,50,491/-	Audited UC submitted, Rs. 80491/- claimed
5.	Equal Opportunity Centre	3,75,000/-	75,000/-	75,000/-	Audited UC submitted
6.	UGC Network Resource Centre	3,10,000/-	2,37,000/-	2,42,184/-	Audited UC submitted, claimed Rs. 5184/-
7.	Career & Counselling Cell	7,00,000/-	3,00,000/-	3,00,000/-	Audited UC submitted
8.	HEPSN a) Enabling unit b) Special equipments	4,90,000/- 6,50,000/-	98,000/- 1,50,000/-	98,000/- 1,50,000/-	Audited UC submitted
9.	Entry in service	10,00,000/-	9,00,000/-	10,00,300/-	Audited UC submitted Claimed Rs. 1,00,300/-
<b>Other Grants</b>					
1	Day Care Centre	2,00,000/-	2,00,000/-	2,00,000/-	Audited UC submitted
2	Grant for Basic Scientific Research(BSR)	35,00,000/-	35,00,000/-	35,00,000/-	Audited UC submitted

SI No.	Scheme	Grant allocated	Grant Received	Grant Utilized upto 31 <sup>st</sup> March 2012	UC Status
3	NAAC Assistance	10,00,000/-	10,00,000/-	10,00,000/-	Audited UC submitted
4	Additional assistance	27,50,000/-	24,75,000/-	UC given	Audited UC submitted
5	Grant in Aid for Girls' Hostel	1,20,00,000/-	60,00,000/-	UC given in 2015*	Audited UC submitted

\*Block Grant Handed over to PWD. Plan modification was proposed by UGC visiting team. New plan was submitted and work started after rehabilitating the occupants. PWD submitted UC only after completing the building superstructure.

**Table 6.7: UGC Assistance for the XII Five Year Plan till date**

SI No.	Scheme	Grant allocated	Grant Received	Grant Utilized upto Dec, 2015	UC Status
1.	General Development Grant for UG	31	-	700938/-	Audited UC submitted
		35	-	963752/-	
<b>Merged Grants</b>					
1.	Remedial Coaching for SC/ST/OBC/Minorities	-	2,50,000/-	-	Audited UC submitted
2.	NET/SET Coaching Centre for SC/ST/OBC/Minorities	-	1,87,500/-	-	Audited UC submitted
3.	Equal Opportunity Centre	-	93750/-		
4.	Entry in service	-	2,50,000/-	2,50,000/-	Audited UC submitted
<b>Other Grants</b>					
1	IQAC	3,00,000/-	3,00,000/-	-	-

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

Efforts are made to garner funds for Research and development from different bodies. Proposals are framed, screened, sent and defended with almost 100% success rate till date.

**Table 6.8: Funds harnessed from different sources on various schemes after screening by the funding agency:**

Funding Agency	2010-11	2011-12	2012-13	2013-14	2014-15
<b>UGC-CPE Grant</b>	-	Phase I Rs.50,00,000/-	Phase II Rs.33,98,085/-	-	Phase III Rs.10,00,000/-
Sanction memo no-: F No-18-142/2010(NS/PE) dated 22.3.2010					

Funding Agency	2010-11	2011-12	2012-13	2013-14	2014-15
DBT	–	Rs.25,00,000/-	Rs.10,00,000/-	Rs.5,66,000/-	Rs-995896/-
DST	Rs.37,50,000/-	-	-	-	–
DBT –BOOST	–	–	–	–	Rs-35,00000/-
UGC –Basic Scientific Research Grant	Rs.35,00,000/-	-	-	-	
NTRF	-	-	-	Rs13,50,000/-	Rs-122911

## 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, Maulana Azad College was accredited by the NAAC in the year 2007. In compliance with NAAC recommendations, the IQAC was established in August, 2008.

**The Institutional policy was guided by the following principles:**

- To imbibe the sense of harmony and peaceful co-existence among the students in a multicultural and multilingual milieu without compromising with endeavour for excellence.
- To harness all possible resources to promote the principle of ‘inclusive education’ and to provide material as well as academic support to all deserving students.
- To qualitatively improve each and every benchmarking parameter deemed essential from academic and administrative point of view.

**Contribution of IQAC in institutionalizing the quality assurance processes:**

- **Admission Policy:** A well-defined and transparent admission policy based on merit is in place. The choice of subjects reflects a cross cultural milieu where training is imparted on modern sciences and traditional languages simultaneously.
- **Curriculum planning to uphold the principle of amity and harmony:** The Students speak in different languages and practise different religions. But all of them take part in all cross-cultural events with equal zest. The activities of the IQAC have been to enrich this position of trust among all stakeholders.

- **Resource mobilization for socially and economically challenged students:** The IQAC takes active role in informing, short listing and awarding the deserving socially and economically challenged students who sometimes tend to drop out in want of material or academic support.
- **Planning and implementation of Infrastructural and Academic upgrades:** The IQAC, since its inception, has chalked out all developmental activities and monitored their implementation. Harnessing funds under various schemes, fund distribution, budgeting and purchase, liaising with funding bodies and government agencies like PWD are some of the areas where IQAC is active. In framing the academic calendar, in upgrade from UG to PG, in building up the research infrastructure and in strengthening the overall research profile of this institution, IQAC has been the principal driving force.

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

Year-wise report on implementation status of IQAC recommendations:

**2008-2009:**

On the basis of NAAC recommendations and internal reports submitted to the government we were able to implement the following:

- ✓ Opening of Post Graduate Courses in English and Urdu was high point of this year.
- ✓ Honours course in Botany materialized with effect from this year.
- ✓ Strengthening of Research in the form of three new Major Projects in Zoology, two new collaborative projects in Sociology and several Minor Research Projects.
- ✓ Complete autonomy of the Post Graduate Departments was reflected in fresh, updated curriculum designing.
- ✓ The faculties are continuing to excel in publication records.
- ✓ Complete digitization of library achieved.
- ✓ New reading room with AC and networked computers was opened.
- ✓ Fully digitized student data management and office management was ensured.
- ✓ All laboratories were upgraded with a total of Rs.44, 45,629/- spent on their infrastructure development. In addition, adequate fund was garnered for disposables, books and journals which benefitted the students immensely.
- ✓ Full time Principal took over from the officiating Officer- in- Charge.
- ✓ The student: teacher ratio was bettered as 11 new teachers joined this year.



- ✓ The college applied for the CPE status and was informed to be shortlisted till the time of this report.
- ✓ Both Central and State Government funds were mobilized for preservation and display of archival books and manuscripts.

**2009-10**

- Formation of an archive of Old Persian and Urdu manuscripts in collaboration with the National archives in progress.
- Major research projects valued at Rs.67 Lakh have been successfully defended and will be operative in next academic session.
- Teachers of all departments contributed to the framing of syllabi according to the new regulation of the University of Calcutta through workshops.
- Security and discipline of the boarders in hostels was further improved by recruiting Ex-Army men for the purpose.
- Number of seats and other facilities are going to be increased in Boys 'Hostel as construction of a new annexe building and kitchen block under way. NAAC particularly highlighted the want of required facilities in hostel and since then the college is putting in extra effort to upgrade the hostel to a great extent.
- Programme for complete digitalization of Cataloguing, lending, process in the Library was taken up at the beginning of the year. Assistance from State Achieves was also sought. At the end of the year we were able to form a state of the art, network linked digitalized Library in the College.
- We were successfully able to digitalize the entire office and admission related works in our college.
- All laboratories were upgraded further. Funds were made available from the State Government as well as other funding agencies like the UGC and DST.
- New collaborations were established with both academic bodies and NGOs during the year.
- The college applied for the CPE status and was informed to be shortlisted till the time of this report.
- The college has been declared as a College with Potential for Excellence after it successfully defended its proposal along with four more colleges of the state.

**2010-11**

- ❖ The College vied for the CPE status and accordingly submitted the required data for consideration to the University of Calcutta in 2008-09 AQAR periods. This year we have received the coveted CPE status from the UGC.
- ❖ The college received assistance for all the schemes it had sought to implement during the plan period under consideration. Accordingly the programmes like 'Entry into Services for SC/ST/Minorities'; 'NET/SET Coaching Centre'; 'Remedial Coaching Centre' etc. Were established.
- ❖ A new annex building of the Baker Hostel has been constructed. New boarders will be allocated seats here during 2010-11 academic session. For surveillance, Ex Army men were recruited. New books and periodicals, TV etc were also added.
- ❖ All major research projects were successfully defended and assistance to the tune of Rs. 67 lakh was allocated for all these schemes taken together.
- ❖ During the last academic session we could develop a state of the art language laboratory with all audio-visual facilities in the offering.
- ❖ University result was bettered considerably during this academic session.

**2011-12**

- 25 areas of assistance under UGC-CPE scheme became operational.
- 21 Major and minor research projects are continuing
- Medicinal Plant garden is coming up.
- Special IT training programmes for Minority girl students became operational.
- Out of syllabi hands-on training programmes in all science departments were operative.
- Completion of 8 projects by school of Socio-Economic Research.
- Increased number of NET-SET/GATE/JAM awardees.
- Involvement of erudite experienced scholars and teachers as guest faculty.
- Digitalized searching, lending and borrowing system in the library.

**2012-13**

- CPE funding for all departments, research and outreach activities.
- Engagement of a doctor for boarders in the hostel.
- Sanction obtained for Girls' Hostel project
- Online admission and student data management by professional agencies.
- Online library resources like JSTOR for all students and faculty.

- Publication of Science Journal taken up.
- CPE funded research projects published.

**2013-14**

- The college is aiming at increasing number of seats to the extent of about 17% to accommodate students belonging to socially challenged classes. As such, we notified this increase in number of seats for the OBC categories without reduction of any seat for the General and other categories. The admission process was aimed at increasing the inclusiveness and the college was largely successful in carrying this out in practice.
- Construction of a Girls' Hostel started after successfully rehabilitating a number of families from the chosen site.
- The college is determined to inculcate its culture of value based education in a secular and unbiased environment. The yearlong activities in the college suggested in a number of ways that the amity and peacefulness harnessed over a long period of time were kept untarnished. The college arranged workshops, talk shows, drama events to encourage empowerment and equality.
- Computer skill development programmes for minority Girl students generated huge response we were happy to continue this programme as a certificate course without charging any fees whatsoever.
- There was remarkable improvement in interdepartmental activities particularly in science departments. Student publication by UG students has been a hallmark towards this end.
- The Science Journal was published. MAC Journal of Basic and Applied Sciences (ISSN No. 2347-5366) was made a reality in November 2013.

**2014-2015**

- IQAC interacted with the students to discuss issues related to their welfare and discipline. The students put forward some suggestions and on the basis of these suggestions some actions were immediately taken and some were forwarded to the DPI for necessary action.
- A Staff Training Programme in Computer and ICT skill development was organised in association with M/s Brainware. The Programme was conducted successfully and both teachers and staff members were benefited.

- Criterion specific Steering Committee was formed for preparation of SSR for the NAAC accreditation.
- The process for the submission of PABS based CAS proforma from the eligible incumbents and the CAS implementation of the teachers is initiated.

**c. Does the IQAC have external members on its committee? If so, mention any significant contribution made by them.**

As per UGC guidelines IQAC always had external members in it. For the period from 2010-11 to 2013-14 them were:

*Dr. Subhas Bhattacharyya, Professor of Chemistry, Jadavpur University*

*Dr. Timir Baran Jha, Professor of Botany, Formerly of Presidency University*

The present IQAC has following external members:

*Mr. Iqbal Ahmed, Deputy Mayor, Kolkata Municipal Corporation.*

*Prof. Subrata Panda, Retired WBES, Director, Publication Division, Netaji Subhas Open University.*

*Dr. Bikash De, Joint Director of Public Instructions, Directorate of Higher Education, Govt. of WB.*

The external members gave valuable inputs from time to time to operationalize the government policies and vision statements of the college.

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

The IQAC has representatives from Students' union and Alumni association. In planning and implementation of development programmes their inputs are always considered vital. The student and alumni representatives in IQAC take most important role in:

- Successful implementation of scholarship schemes by percolating necessary information and by identifying the deserving pupils.
- They take leading roles in the annual sports; annual social, quizzing and debating activities and other events of the colleges' cultural calendar are always led by them.
- Days of National and international importance are celebrated and commemorated here in association of students and alumni. The members concerned take most important roles in observance of Independence Day, Republic Day, International Language Day and Rabindra Jayanti.
- The college foundation day, Maulana Azad's birthday is celebrated through effective contribution of these members.

- v) The college magazine is published annually and student member take major initiative in it.
- vi) They give suggestions in designing and implementing the outreach programmes, NSS activities, women empowerment and such other programmes.

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

IQAC has representations from Faculty, Staff, Students, alumni and external members. It is principally the faculty representatives who are engaged in convening different programmes at the auspices of the IQAC.

For example, the IQAC has formed AQAR and SSR criteria-specific sub-committees, each headed by a steering committee member.

Decisions are communicated by the Principal and the coordinator, IQAC in Teachers' Council meetings, governing body meetings and through communication to the external invitees in IQAC. Decisions involving the students are communicated through existing norms of notification.

**6.5.2 Does the institution have an integrated framework for Quality assurance of the academic and administrative activities? If 'yes', give details on its operationalization.**

-Yes. Quality assurance is ensured in both academic and administrative levels.

- **ACADEMIC:** (i) Through tests conducted by the College and the University (ii) Through benchmarking protocols that are followed in consonance with norms of the Government and the funding agencies like UGC, DBT, DST etc. (iii) Through feedbacks obtained from students and guardians (iv) Through in-house academic auditing.
- **ADMINISTRATIVE:** The College is fully controlled by the Government of West Bengal. Rules pertaining to 'Service' have inherent mechanisms for operationalization of administrative activities. Furthermore, financial auditing is done by Audit and Accounts of Government of India. Panelled Chartered Accountants are engaged for auditing funds from external agencies. Staff training is arranged from time to time. All tendering and payment procedures are online through dedicated portals.

**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.**

Institutional level training was imparted to Staff in collaboration with Brainware in computer skill development in 2014-15.

#### 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?

Affiliating University is the authority for the academic audit. After the notification/intimation of the University, the Institution prepares itself to face the audit.

#### 6.5.5 How is the internal quality assurance mechanisms aligned with the requirements of the relevant external quality assurance agencies/regulatory authorities?

Internal quality assurance mechanisms adopted by IQAC are very much aligned with the requirements of external quality assurance agencies like DBT, DST, UGC etc. As IQAC complies to all requirements and guidelines framed by such regulatory authorities.

- **Experts in DBT-** DBT assigns the college to very specified mentor group who monitor the process of implementation and based on their satisfactory report, the college was shortlisted among only 14 colleges in India for continuation of this support.
- **Experts in DST-** The convener IQAC, had to attend and convince the DST for implementation and continuance in FIST initiative of DST, Government of India.
- **Experts in UGC-** The convener, IQAC put forward the proposal and defended the same for recognition under CPE scheme which the college received duly. The same procedure was followed by the college for garnering Grant in aid from the UGC. Framing the proposal and defending it successfully had been the responsibility of IQAC.
- **Anti ragging policy-** As per requirements of Government of India, each student admitted has to undertake legal responsibilities in the form of an affidavit along with a similar declaration from his guardian.
- **PWD in maintenance and development of infrastructure-** The IQAC involves the PWD in framing the budget statements for this purpose. Accordingly, the Principal writes to the HE department for allotment of funds. The implementation on availability of the fund is guided by the IQAC.

#### 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?

- A system of internal assessment like class tests, term-end tests and selection tests are in place.
- Student seminars, poster presentations to showcase student –level research which form very important part of our academic endeavour particularly in the Science Departments.
- The student feedback reports are considered as important inputs in assessment of teaching-learning.
- Feedback from guardians and parents are taken into consideration in assessing the performance of students.
- Feedback reports on add-on programmes

**6.5.7 How does the institution communicate its quality assurance policies, mechanisms and outcomes to the various internal and external stakeholders?**

- Mandatory distribution of the prospectus which incorporates the academic calendar.
- Initiation meetings appraising the syllabi, examination pattern, distribution of marks etc.
- Regularly updated college website intimating student specific matters needed to be addressed from time to time.
- Meetings are arranged at regular intervals with the class representatives to discuss quality assurance policies which also require them to take an oath of obedience and honour.
- Value Education Programs are held from time to time under the banners of Womens' Cell, Anti Ragging Cell, Cell against Sexual Harassment and Professional Skill Development Programmes for Women in consonance with requirements of quality assurance.
- The Career Guidance Cell communicates the upcoming events through circulars, flex banners and website.

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

This college is an oasis of harmony and amity among the diverse community of students and staff. No turbulence outside its premises, how big it might be, had been able to disturb this heterogeneity in memory. This should be taken into consideration as a very important qualitative benchmark in evaluating this college. There are not many institutions in this region which exhibited remarkable prosperity in both traditional oriental studies and modern sciences. The Governance and management policies are aimed at upholding and inculcating this spirit.





## Criterion VII: Innovations and Best Practices

### 7.1 ENVIRONMENTAL CONSCIOUSNESS:

The college is located at the heart of the city amidst a thickly populated locality and on one of the busiest roads of Kolkata Municipal area. The college campus, however, seems to stand here like an oasis. The college building is a heritage structure with pleasantly detectable signature marks of Indo-Islamic Architecture. The façade is designed in classical four-square or “Chahar Bagh” in conformity with this style. The ‘Bagh’s are again adorned in Mediterranean theme with exotic guardian palms welcoming every visitor at the entrance. The building, the motif of Chahar-bagh, the choice of plants – everything speak of the respect this institution commanded from the time of its very inception. Our effort, over the years, had been to care and tender this homogeneous and balanced form and motif that has huge impact on the micro and macro-environment of the locality. Following measures are taken routinely that reflect the environmental awareness on the part of the stakeholders:

- ✓ Plantation of palm trees “Briksha Ropan Ceremony” in the month of August in 2012, 2013 and 2014 respectively.
- ✓ It is mandatory for each of the Final Year students to undertake an environment related study as per university norm and submit Project Reports on these studies, issues of significance from local perspective. These studies are interdisciplinary in approach and only after review reports are available on the study, a student is allowed to sit for the final examination.
- ✓ Department of Microbiology is operating a Water Testing Facility to determine both chemical and microbiological quality of drinking water from any source of interest. The water samples from college and the locality are routinely collected and the KMC is urged to undertake proper measures based on these reports.
- ✓ Deviations in the Sound intensity level around the campus and at the busy traffic intersection near the college is studied and monitored by the department of Physics.
- ✓ A medicinal plant garden has come up in 2011-12. Department of Botany has raised this garden and has been maintaining it. More than 25 exotic and local medicinally important plants are being cultivated here and efforts are on to harvest and maintain the Germplasm at the tissue culture laboratory of this department.
- ✓ The college has imposed restriction on use of plastic inside the campus.
- ✓ Chewing of masticatories, pan- masalas, and gutkhas inside the college campus is prohibited.

- ✓ Clean drainage system with culvert covering to stop water logging and growth of mosquitoes and other parasites.
- ✓ 'Save Energy' initiative of NSS makes the students aware to switch off lights and fans before leaving the class rooms to save electricity and power.
- ✓ The admission, the student affairs, the library management including searching and borrowing, the tendering, billing, the scholarship delivery system and several other important activities are largely paper free.
- ✓ Postering on the college building in any form- graffiti or paper is completely prohibited. There are dedicated boards on the campus to help percolation of information.
- ✓ Our waste disposal system is managed by Kolkata Municipal Corporation. The Deputy Mayor, KMC, Iqbal Ahmed himself is a member of the IQAC of this college.
- ✓ The College has a dedicated environment awareness initiative named "School of Environment and Biodiversity Conservation and Awareness" (SEBCA) which is operated by Zoology Department. Under this initiative interaction with schoolchildren take place on several issues concerning environment and biodiversity.
- ✓ The Cell against Sexual Harassment is open to any exigencies which are brought to their notice. Not a single case, however, been reported till date. The Anti -Ragging cell deals with the erring students in case of complain and the issues are usually resolved by the Hostel Committee.
- ✓ Most of the Science departments carry out educational tour with students and teachers creating awareness among students to save plant and animal lives and conserve biodiversity.
- ✓ Chemistry Department has organized interdisciplinary workshops on the methodologies to detect adulterants in food materials and harmful dyes in food products and spices.
- ✓ Department of Botany did a survey work on the importance of medicinal plant and diversity of wall flora in Kolkata and surrounding areas.
- ✓ Department of Microbiology did survey works on pathogenic load in air and water of government hospitals in the city. Survey works were also done on vegetables sold in the Janbazar market close to the college.
- ✓ Students of Microbiology department were introduced to the technique of producing and harvesting bio-plastic in the form of *Hydroxy-Alkanoates* accumulating in bacteria.

- ✓ Clean and filtered drinking water throughout the premises.
- ✓ Canteen committee checks the quality and taste of the food supplied in student and staff canteens.

### **7.1.1 Does the institute conduct a green audit of its campus and facilities?**

- A dedicated committee looks after campus greenery with two fundamental principles in mind: i) The type of plants that were chosen by founders of this college signifies the signature characteristics of a revered place and ii) any addition to this should not involve cutting, ex-plantation or defoliation of the trees in campus. These principles were followed in Plantation Drive on the occasion of “Aranya Divas” or in developing the medicinal plant garden inside the college campus.
- The “chahar bag” (Mughal heritage) concept of the façade of this premises reflects the idea of reverence this place commands. The kinds of trees chosen by the founders also reflect strong believe in viewing an institution as a place of worship. The college is continuing to maintain these palms as guardian angels of our institution.
- The waste disposal management is monitored by KMC (conservancy) department.
- Accumulation of water is monitored and checked regularly by zoology department for the presence of any parasitic larvae.
- Drinking water is regularly monitored for coliforms and heavy metal contamination by the Microbiology department.
- The Department of Botany studies seasonal variation in floral diversity through quadrat analyses method which also involves the students.
- The college has Animal Ethics Committee, Government of India certified Animal House to conduct essentially important research on animals without violating the Government of India guidelines drawn for this purpose.

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

- ❖ Maintenance of garden with exotic plants along with a medicinal plant comprising of 25 exotic medicinal herbs is a privilege of this institution.
- ❖ Preventing accumulation of water to check malarial and dengue infestation, if any.
- ❖ Monitoring drinking water regularly for *E.-coli* form.
- ❖ Plastic free premise is maintained by the Green audit committee.
- ❖ Hazardous waste management is done at regular interval. Disposables are taken care of by the conservancy department of Kolkata Municipal Corporation. Moreover,

primary importance is given to reduce the volume of chemical wastes generated in our laboratories and accordingly the following initiatives have been taken:

1. Purchase of smallest quantity of hazardous chemicals required for our laboratories.
  2. Sharing surplus chemicals with other laboratories of biological sciences.
  3. Purchase of mercury-free instruments.
  4. Substituting hazardous chemicals with non-hazardous chemicals whenever possible.
- ❖ E-waste management- proposals have been made and forwarded to higher authority
  - ❖ Energy conservation is a pre-requisite to the eco-friendly environment issue. The concern for energy conservation prevails among both the staff and the students. At the end of the day, all electronic and electrical installations are immediately switched off and the devices are unplugged. Use of AC machines is regulated. The use of generators at the time of power cut and that of the emergency power supply is kept to a minimum. Effort has also been taken to supplant the energy consumable lamps with modern energy saving CFL lamps and tubes. The college uses environment friendly and star rating instruments for moderate consumption of energy.
  - ❖ Use of renewable energy- The College is in the process of installing a Solar Panel photo-voltaic system at the roof top of the college building with the initiative of PWD, Electrical wing, Govt. of West Bengal.
  - ❖ Any kind of postering and slogan writing inside the campus, creating visual pollution is prohibited.
  - ❖ The college has banned use of plastic cups inside the campus.

## 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:

The college was able to garner the UGC-CPE status, DST- FIST Assistance, DBT-Star College Assistance, WB DST BOOST Assistance, Tea Research Foundation (NTRF) funding and several INSPIRE fellowships during the period of report. The College was ranked 1 in the city teaching Science by the AC Nielsen –India Today survey for consecutive years 2013-14 and 2014-15 respectively.

- ✓ **Decentralization to achieve optimum benefits on major thrust areas (2011-12):** The College was awarded the CPE status from the University. The five major thrust areas were, (i) Teaching (UG); (ii) Teaching (PG); (iii) Research (iv) Extension and (v) Others. We identified 5 sub areas under each of these major heads. Funding was

made available on the basis of project submitted by Nodal persons assigned to these areas. The final report was submitted to UGC which was appreciated.

*Please refer to 6.1.7*

- ✓ **Establishment of Central Instrumentation Facility for research (2011-12):** Procurement of instruments exclusively aimed at research started with first phase of DST funding to Zoology department in 1<sup>st</sup> Accreditation cycle period. A substantial part of all subsequent funding from UGC, DST, DBT, and State Grants were utilized to augment interdisciplinary research.
- ✓ **Establishment of SEBCA (2011-12):** School of Environment, Biodiversity and Conservation Awareness (SEBCA) was started with a goal of inclusiveness of schoolchildren in the programmes. Over these years we were able to work together with
  1. Lee Memorial Girls School (Christian Missionary School)
  2. Harinavi Girls Balika Vidyalaya, South 24 Parganas
  3. Baranagar Mayapith Nari Siksha Ashram; and
  4. Kensily Emadidia High school, South 24 Parganas.
  5. Lake School for Girls
  6. Chowbaga High School
  7. Taltalla high School for Boys
- ✓ **E-inventories with central server linked access facility (2011-12):** The College began subscribing to inventories like JSTOR after CPE award was conferred. The initiative is continuing even though the CPE assistance is over. Currently, the digitized inventory of Library can be accessed from all the departments of the college through a central server
- ✓ **Introduction of Semester system in PG courses (2010-11, 2012-13, 2013-14):** From annual system of evaluation, the English department first shifted to Semester system followed by Urdu and Zoology. This exercise entails module based approach to the syllabi which both students and teachers find helpful.
- ✓ **Introduction of CGPA:** Post Graduate Departments use Cumulative Grade Point Average (CGPA) based on the performance of the students in the examination.
- ✓ **Increase in the numbers of Ph.D. degree compliant departments:** During the last four years in addition to Zoology, Ph.D compliance was achieved for the Departments of Microbiology, Department of Chemistry, Department of Physics, Department of Economics and Department of Urdu.
- ✓ **Construction of Animal House in concurrence with Government of India guidelines facilitating research with animal models (2012-13):** The College has constructed an Animal House approved by Ethics Committee, Government of India, to conduct essentially important research on animals without violating the Government of India guidelines drawn for this purpose.

Animal Ethical Committee members of the College-

1. Dr S C Dasgupta, Professor & Head, Department of Zoology, Maulana Azad College Chairman IAEC
2. Dr S Manna, Associate Professor in Zoology Member Secretary IAEC
3. Dr Sudipto Chakraborty, Assistant Professor in Zoology
4. Dr Aparna Gomes, Retd Scientist, Drug Development Division, Indian Institute of Chemical Biology
5. Dr Goutam Aditya, University of Calcutta
6. Dr Satyabrata Bhattacharjee, Chairman, Binapani Educational Welfare Trust
7. Dr Nanigopal Banik, Veterinary Surgeon

- ✓ **Industry funding for Research (2013-14):** Fund was harnessed from National Tea Research Foundation (Rs.13, 50,000/-) apart from UGC, DST, DBT, NTRB and other National agencies. This is, in true sense of the term, the first ever industry consortium funding for research in this college and hopefully other such grants will follow.
- ✓ **Forging newer national and international collaborations (2010-11):** Thirteen new collaboration was recorded. International collaborations with Institute of Parasitology, Czech Republic; N.S.F., U.S.A.; University of Modena and Reggio Emilia, Italy, IICB , WBSU and University of Calcutta.

*Please refer to 3.7.1*

- ✓ **MOU s with external authorities:** Some important Memoranda of Understandings were signed with (a) Airport Authority of India for imparting training of its employees in Communicative English (b) The President of India, acting through Department of Biotechnology, Ministry of Science and Technology, Government of India, New Delhi, (c) Memorandum of Understanding signed between Dr. Pradip Kumar Kar (WBES) and Provost, University of Connecticut. (d) Memorandum of Understanding signed between Dr. Pradip Kumar Kar and Prof. Tomas Scholz. (e) Memorandum of understanding between Maulana Azad College & Department of Biotechnology, Govt of India for DBT Star College Programme
- ✓ **Establishment of Medicinal Plant Garden:** A Medicinal Plant garden has been raised and being maintained carefully by the Botany Department. This garden was constructed with the help from Agri-Horticulture society of India, and now maintained by "Nature Makers".
- ✓ **Construction of Animal and plant tissue culture laboratories:** Enabled the departments to undertake research works on preservation of Germplasm and to introduce new special paper in Post graduate zoology course.
- ✓ **Add on and hands on training programmes:** Several such programmes were introduced for students of all disciplines. DBT sponsored programme in unique in its kind where UG students are encouraged to undertake short term projects and workshops. A number of such programmes were organized by 5 beneficiary

departments and the college is among the select group for which DBT is continuing to extend the Star College scheme for 4<sup>th</sup> year running. Computer Skill development Programmes, Mathematical skill development programmes, French language certificate course are some other initiatives in this area.

- ✓ **Scientific Waste Management:** The College has implemented efficient waste disposal management procedures.
- ✓ **Compulsory projects on Environment for each Final year student:** Each of the Final Year students of UG course undertake a study of environment related project of significance and submit Project Report to designated teachers as per University curricula.
- ✓ **Publication of research Journals:** In order to inculcate inter-disciplinarily in the research arena the college is publishing three interdisciplinary research journal named; “MAC Journal for Basic And Applied Sciences” [ISSN: 2247-5366], “MAC Academic Journal of Languages And Social Sciences” 2015 [ISSN : 2395-2431], and “*Journal of the Department of English*”, MAC [ISSN: 2240-8737 ]
- ✓ **Providing seed money for research:** There is limited scope for funding research or releasing personnel for study leaves of their own for a Government Institution. However, we have been able to provide seed money for small projects under UGC-CPE Grant to undertake small projects on lives and livelihoods of working women in this part. Eight lady teachers were awarded the projects and the amounts spent ranged from Rs.10,000/- to Rs. 30,000/-.
- ✓ **Establishment of a language laboratory (2010-11)** with audio-visual and interactive consoles enabled completion of a project on translation of selected works of Jnanpeeth Awardeee poet Bishnu De in as many languages as are taught in this college.
- ✓ **Transparent and fully operational online admission process (2011-12):** Enrolment and submission of forms are online. Percolation of information in college website with regional news channels percolating information. Merit Lists can be observed, compared, objected to (if any) through web portals. After counseling, fees are also deposited to Bank. So there is little scope of merit being compromised.
- ✓ **Digitalization of student database and NEFT transfer of scholarships:** Student records are digitally maintained since a long time now. Now we have linked the Bank accounts of students for transfer of scholarships online directly to their accounts with intimation to their guardians.
- ✓ **Implementation of Kanyashree Scheme (One time financial assistance) of Government of West Bengal:** A number of girl students were benefitted under this

scheme. In 2013-14 FY 88 girls were awarded Rs.22,00,000/- and next year 54 students were awarded Rs.13,50,000/- under this scheme.

- ✓ **E-payment** through the E-PRADAN portal of Government of West Bengal. This has led to transparent and paperless bill processing and bill payment system. Staff salary is COSA compliant and linked directly to government exchequer. Thus bill preparation, scrutiny and payment of salaries are almost paper free.
- ✓ **Thrust on Outreach Activities:** From 2010-11, the college is forging cooperation with schoolchildren, monitoring food, water, vegetables, adulterants and additives in markets, college canteens, hospital premises and several other areas where footfall of commoners is high. These initiatives positively impacted the academics of the participating students too.
- ✓ **Poster and Graffiti free campus:** The College is seen and revered by the students as a sacred place where apart from classrooms a place of worship is also housed. This spirit of cleanliness and maintaining the beauty of its campus is inculcated through generations. Even then, we have introduced designated boards and panels for display of notifications.
- ✓ **Construction of 'Bangabandhu Smarak Bhavan' –the annexe building of Boys' Hostel with 200 more intake capacity:** To satisfy the demand of students a new enclosure is added and now 200 new boarders can be accommodated.
- ✓ **Construction of Girls' hostel:** Although UGC fund was sanctioned during XI Five Year Plan, the land could not be obtained due to encroachment and rehabilitation problem. The construction is fully under way and by next session it would be ready for the boarders. **Anti Ragging Cell:** An anti-ragging cell is functioning in the college and in Boys' Hostel. A 24-hour student monitoring through CCTV has been ensured in the hostel. Ex-army men are engaged as security. In the college, every student and every guardian has to undertake legal responsibility as an affidavit at the time of admission.
- ✓ **Cell Against Sexual Harassment (2010-11):** This was initiated during the CPE years and functioning efficiently since then with students being introduced to *Visakha* guidelines.
- ✓ **Installation of a 20 KV Generator** to cope with power failure.



### 7.3 BEST PRACTICES:

#### 7.3.1. Title of the Practice:

- 1) **Multicultural Milieu**
- 2) **Ensuring Inclusiveness through Student Support schemes**

#### 7.3.2. Goal:

**1. Multicultural Milieu:** Maulana Azad College is committed to provide quality and affordable higher education for all, including the underprivileged sections of the society. With its modest beginning as Islamia College during the British period, and being an exclusively men's college till about two decades ago, the institution is now a major seat of higher learning and research for both men and women in this part of the country. Many of them are first generation degree-seekers from minority communities, and economically weakest sections of the society. The students come here from different parts of the state and many come from other states as well. The students have different vernaculars, practice different religions and yet in distant memory, Maulana Azad College pleasantly and happily failed to record even one instance of discord and hostility among its students and staff.

**2. Ensuring Inclusiveness through Student Support schemes:** In conformity with the vision and mission of this college we are committed to increase the intake facility particularly those from the economically and socially challenged group of students. In view of augmenting this, we have formed special cell to guide and facilitate the students in availing all such schemes that the government has launched for this target group. In addition, we have initiated special computer education and IT training courses for these girls. This beneficiates the students of arts discipline particularly and the results so far are very encouraging for all stakeholders.

#### 7.3.3 The Context :

**1. Multicultural Milieu:** The diversity is reflected in applicants and in offered courses too. Students from all caste, creed and religion apply for admission. Likewise, as many as 20 degree courses in humanities, social sciences and sciences, including six languages and three PG courses are offered here. Classical oriental languages like Arabic, Persian, and Urdu are taught alongside Sanskrit, Bengali and English literature. Simultaneously fundamental sciences alongside multidisciplinary subjects like Microbiology are taught here. The growth trajectory itself speaks about the efforts to translate the vision into mission, and to remain oriented to the needs of the changing times without compromising with the spirit of amity and harmony.

**2. Ensuring Inclusiveness through Student Support schemes:** The College aims at attaining simultaneous excellence in classical as well as modern studies. A large number of students, particularly girl students, who opt for languages and social sciences come from socially, economically challenged groups and majority of them belong to minority communities. We have decided to form a cell that would look, among other things, after the financial support schemes and the academic schemes that would beneficiate them minimize the drop out ratio.

### 7.3.4: The Practice

1. **Multicultural Milieu:** A reflection of the diversity of applicants in UG admission may be found in the following Table-7.3.1:

*Table-7.3.1: Diversity of applicants (2014-15 academic sessions)*

Sl. No.	Subject	General	SC	ST	OBC (A+B)	PH	Total
1.	Accounting and Finance	1363	136	28	68+33=101	2	1630
2.	Arabic	176	1	1	85+5=90	2	268
3.	Bengali	155	26	3	33+6=39	1	224
4.	Botany	419	62	7	62+18=80	4	572
5.	Chemistry	1229	156	7	142+80=222	6	1620
6.	Economics	388	19	2	7+10=17	3	429
7.	English	1201	145	12	107+32=139	7	1504
8.	History	312	23	4	22+3=25	-	364
9.	Islamic History	112	-	-	22+3=25	-	161
10.	Mathematics	769	108	3	100+64=164	5	1049
11.	Microbiology	656	95	7	52+17=69	5	832
12.	Persian	25	-	-	4+0=4	-	29
13.	Philosophy	22	4	1	6+1=7	-	34
14.	Physics	997	145	3	121+85=206	2	1353
15.	Political Science	215	9	5	14+2=16	-	245
16.	Sanskrit	15	11	-	3+1=4	-	30
17.	Sociology	210	9	3	3+2=5	1	228
18.	Statistics	352	20	-	3+14=17	1	390
19.	Urdu	217	-	-	25+0=25	1	243
20.	Zoology	1579	268	14	170+85=255	6	2122
21.	Arabic General	46	-	-	10+1=11	-	57
22.	Persian General	340	-	-	31+0=31	3	374

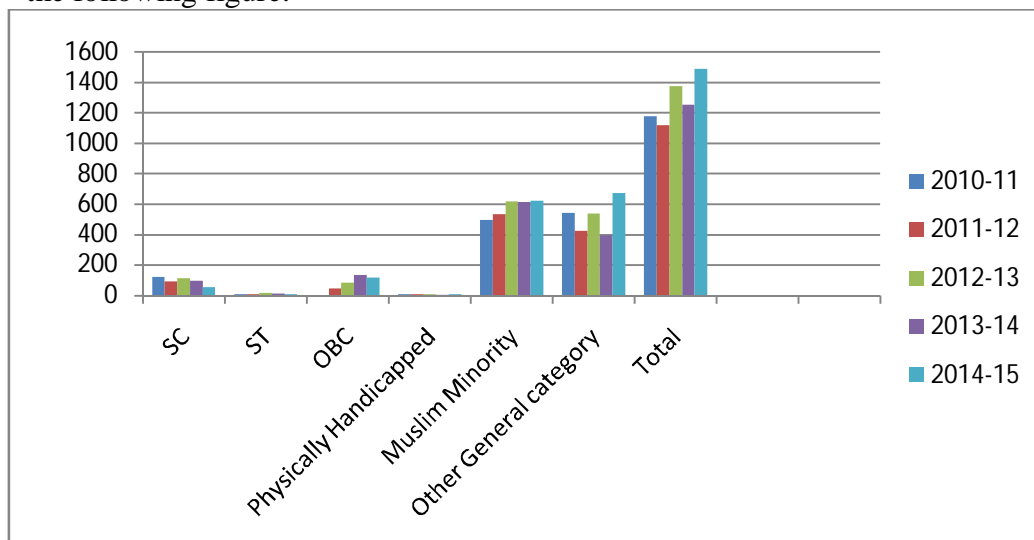
**2. Ensuring Inclusiveness through Student Support schemes:** The cell for student welfare schemes is headed by one of our faculty. Under Welfare schemes like Kanyashree, a Girl student of below poverty level is eligible to get a onetime assistance of Rs. 25000/- . Students' Aid Fund is one unique scheme where students themselves contribute to the aid of fellow students. West Bengal State Minority affairs department liberally awards scholarships for sustenance and studies of any student belonging to minority community in need. Fees in a government college are nominal. However,

students from economically challenged section fail to deposit this amount too. The college has provisions of half and full free ship for these students too. From information percolation to beneficitation through online transfer on fund-every aspect is monitored by a team of dedicated teaching and administrative staff.

Apart from monitory assistance, catch- up initiatives for uninitiated students is also taken. Imparting **Computer training course for girl students is one such initiative.** Imparting soft skills and ICT training (under the CPE assistance scheme, Prof. D. P. Chattopadhyay, Associate Professor of Sociology is the nodal person for this scheme) to girl students belonging to SC/ST/OBC and Minorities has proved to be one of our more popular schemes Considering the number of children from economically challenged section in the slum areas around the college, it is felt that this project could be extended to the girls of the locality and that would have a huge impact on their development.

### 7.3.5. Evidence of Success

- 1) **Multicultural Milieu:** Diversity in admission over the last five years is reflected in the following figure:



These students had applied for 22 courses in all. With six language departments (that include classical languages like Arabic, Persian and Sanskrit) a wide range of social sciences departments and science departments led by the flagship departments of biological sciences, our college is uniquely placed among the institutions in eastern India to offer students an eclectic mix of subjects that range from Islamic History and Culture to Microbiology, Urdu to Sociology. This also underlines our institution's goal of a holistic, interdisciplinary educational environment rooted to the past and tuned to the future. The certificate/diploma/skill development courses and programmes are designed by the departments to equip the students for the dynamic employment market. The

Certificate Course in Information Technology for Minority Girl Students, the Certificate Course in French language run by the Post Graduate Department of English, are some examples.

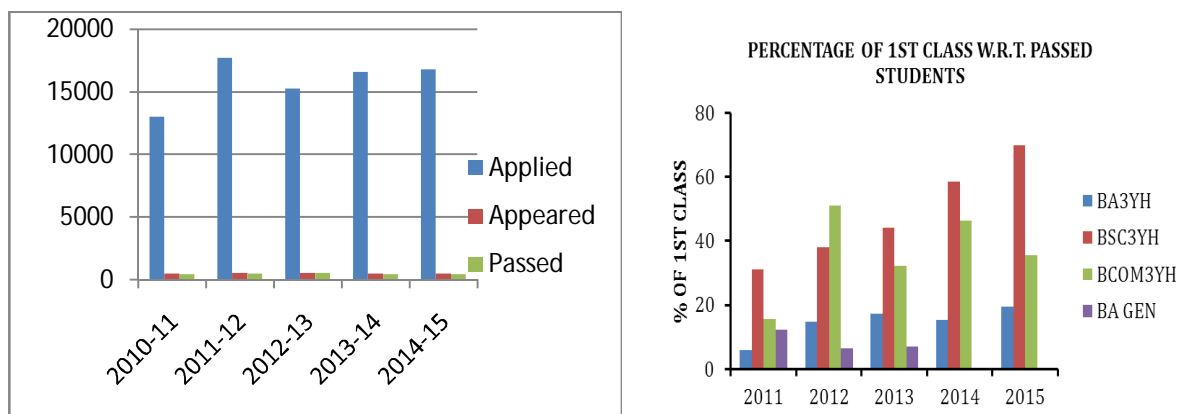
- This diversity allows every student to grow up and mature in a multicultural milieu which, in larger context, helps them grow into better citizens of India. All the academic and extra-academic schemes are addressed by the college authority without any bias or pre-conceived notion.
- Hence all girls take part in programmes organized by Women's' study Centre or Cell against sexual harassment.
- All students celebrate International Language Day on 21<sup>st</sup> February, Tagore's Birthday on 25<sup>th</sup> of Baisakha. Students celebrate Swaraswati Puja and Milad un Nabi in equal zest.
- Student Union has representatives from all communities. The mode of communication is primarily English but culture of multilingual expression is very strong.
- Seminar on "Bangal Mein Urdu ki surat-E-Haal" in 2015 funded by NCPUL organized by **Dept. of Urdu** Organized 'Mushavera' in 2012, 2013, 2014 very strong.
- Six languages (Arabic, Bengali, English, Persian, Urdu, and Sanskrit) and Social Sciences published the peer reviewed Journal "MAC Academic Journal of Languages and Social Sciences., ISSN NO. 2395-2431, Volume 1, March 2015.
- Students Journal," Maulana Azad College Magazine" is also multilingual and published by a team of teachers from all disciplines. Last issue came out in March, 2015.
- Dept. of History, Dept of Philosophy & Political Science organized a UGC sponsored National Seminar on Visibility / Invisibility: An enquiry into the condition of Women in India on 21<sup>st</sup> & 22<sup>nd</sup> Feb 2011.
- The students of **Political Science** participated in Kolkata District Level West Bengal Youth Parliament Competition & quiz contest & won the champion Trophy along with three other Individual prizes.
- The Department of Persian prepared Departmental wall magazine – "Armoghan". The Department also Translated a Rare Persian manuscript "**Khurshid-e-Jahan Numa**" into English, funded by National Library Kolkata, Govt. of India

2) **Ensuring Inclusiveness through Student Support schemes:** A year wise break up for the beneficiaries in various welfare schemes are given below:

Year	Category	No. of Recipients			Amount (in Rs.)		
		Male	Female	Total	Male	Female	Total
2010-11	Merit-cum-means Scholarship	18	0	18	194400	0	194400
2010-11	Student Aid Fund	3	3	6	5300	1835	7135
2010-11	WBMDFC	286	256	542	1316900	1485850	2802750
2011-12	Merit-cum-means Scholarship	31	1	32	346200	10800	357000
2011-12	Student Aid Fund	26	11	37	30618	16461	47079
2011-12	WBMDFC	351	415	766	1984630	2433290	4417920
2011-12	Sitaram Jindal Scholarship	1	1	2	3600	4200	7800
2012-13	Merit-cum-means Scholarship	6	1	7	63600	9000	72600
2012-13	Student Aid Fund	55	30	85	46090	26605	72695
2012-13	WBMDFC	407	378	785	2468200	2045350	4513550
2012-13	Sitaram Jindal Scholarship	2	0	2	8400	0	8400
2012-13	NHFDC	1	0	1	10867	0	10867
2012-13	CPE GRANT (SC/ST/OBC) NON CREAMY LAIR & Minority Girls	4	29	33	18200	131800	150000
2013-14	Merit-cum-means Scholarship	11	3	14	117000	28800	145800
2013-14	Student Aid Fund	13	6	19	15120	9000	24120
2013-14	WBMDFC	543	553	1096	3430800	2883400	6314200
2013-14	Sitaram Jindal Scholarship	2	0	2	7200	0	7200
2013-14	KANYASHREE PRAKALPA K-2	X	88	88	X	2200000	2200000
2014-15	Merit-cum-means Scholarship	19	3	22	178200	28800	207000
2014-15	Student Aid Fund	4	2	6	4455	2895	7350
2014-15	KANYASHREE PRAKALPA K-2	X	54	54	X	1350000	1350000

When compared with application: admittance ratio, we find that almost 100% students qualify without much trouble thanks to these schemes. The impact is notable and a remarkable

improvement in number of 1<sup>st</sup> class degree holders over the years of support of the welfare schemes.



In two phases 72 and 68 numbers of girl students belonging to SC/ST/OBC and Minority categories benefitted in soft skills and ICT training programmes.

*Some examples of performances of benefitted students are sited in 5.3.2*

### 7.3.6. Problems Encountered and Resources Required:

#### The problems:

- i) **Dearth of space** is the most important problem in implementing these programmes to the satisfaction of all the stakeholders. The heritage building has little scope for expansion, hence a second campus is required
- ii) **Transferable Service:** The college being a government administered institution, the teachers are transferred from time to time which acts as a tremendous impediment in carrying out these schemes under a common set of nodal persons for a meaningful period of time.
- iii) **Prioritization** of key areas in the beginning of the year is desirable and that is how it is done. However, during the course of the year relative priorities do alter. Planning and implementing in such cases are somewhat difficult if not backed up by additional funding. Thus add on programmes reflecting the multicultural milieu is few and far between. More avenues of intermingling would be welcomed by all.
- iv) **Diversity in Staff Pattern:** for teaching and support staff is sometimes worrisome. Not many librarians can handle Urdu or Persian books. So diversity in staff pattern is also desirable.

- v) **Drop outs:** Since the number of girl students fails to withstand the pressure of their families and societies they belong to, the rate of drop out is high. A lot more effort and planning need to be done.

**Resources required:**

- i) Space is the most fundamental resource required for this college. Situated in the heart of the city, the college has little scope of adding to the current floor area. As a Class I heritage building no change of façade is permitted. Hence a second campus is the need of the hour.
- ii) Improved funding from the government would enable us to address all key areas with relative weightages they deserve.
- iii) A multilingual hub would be a necessary improvement over existing facilities.
- iv) For earliest completion of Girls 'Hostel, release of UGC fund is urgently required.

**7.3.7. Notes**

For some student support programmes, the college is entirely dependent on the UGC funding. The NET coaching centers, the remedial coaching centre, the entry into services centre are funded by the UGC. It is neither ideal nor desirable that these centers would run on availability of fund and would hibernate when funds are not forthcoming. The irregular arrival of fund poses problem for colleges like us which are not permitted to maintain any non-government fund. The same is true for various other schemes. There should be mechanisms to address these issues at least for those colleges who are shortlisted to run these student-support schemes.

**7.3.8. Contact Details:**

<b>Name of the Principal:</b>	<b>Dr. Bijoy Krishna Roy</b>
<b>Name of the Institution:</b>	<b>Maulana Azad College</b>
	<b>8 Rafi Ahmed Kidwai Road</b>
<b>City:</b>	<b>Kolkata</b>
<b>Pin Code:</b>	<b>700013</b>
<b>Accredited Status:</b>	<b>yes, 2007, B++</b>
<b>Work Phone:</b>	<b>033-22493737</b>
<b>Website:</b>	<b>www.maulanaazadcollege.in</b>
<b>Mobile:</b>	<b>08697470478 / 09830471981</b>





## **SECTION E: Evaluative Reports of the Departments**



## EVALUATIVE REPORT OF THE DEPARTMENT OF ARABIC

1. **Name of the Department :** Arabic
2. **Year of Establishment:** 1926
3. **Names of Programmes/Courses offered (UG, PG, M.Phil., Ph.D., Integrated Masters; Integrated Ph.D., etc.):**
  - UG: B.A. Honours(Arabic)
  - UG: B.A. (General)

4. **Names of Interdisciplinary courses and the departments/units involved:** Students of this department are involved in mandatory Environmental Sciences course (as prescribed by the University of Calcutta), which is interdisciplinary in nature.

5. **Annual/semester/choice based credit system (programme wise):**

<i>Program</i>	<i>Annual</i>	<i>Semester</i>	<i>Credit System</i>
<b>BA Honours in Arabic (1+1+1 Years)</b>	<b>1+1+1 Examination System of the University of Calcutta</b>	<b>No</b>	<b>No</b>
<b>BA General in Arabic(1+1+1 Years)</b>	<b>1+1+1 Examination System of the University of Calcutta</b>	<b>No</b>	<b>No</b>

6. **Participation of the department in the courses offered by other departments:**

Our students participate in the course offered by the departments of Bengali, Urdu, English, Philosophy, Economics, History and Islamic History and Culture. In addition, the students of the department have Bengali, Urdu, English, Philosophy, Economics, History and Islamic History and Culture as their optional.

7. **Courses in collaboration with other universities, industries, foreign institutions, other institutions, etc.:** None
8. **Details of courses/programmes discontinued (if any) with reasons:** None

9. **Number of Teaching Posts:**

	<b>Sanctioned</b>	<b>Filled</b>
Professors	Nil	Nil
Associate Professors	04	Nil
Asst. Professors		04

10. **Faculty profile with name, qualification, designation, specialization, (D.Sc./D.Litt./Ph.D. / M.Phil. etc.) Data includes PTT/ Guest faculty**

<b>Name</b>	<b>Qualification</b>	<b>Designation</b>	<b>Specialization</b>	<b>No. of years of experience</b>	<b>No. of Ph.D. Students guided for</b>
Syed Shah Marhoonul Irshad Alquaderi	M.A. (Double), Ph. D.	Assistant Professor	Literature	08 years	Nil
Syed Mustafa Murshed Jamal Shah Alquadri	M.A. M.M*.	Assistant Professor	Literature	06 months	Nil
Md. Sadrul Islam	M.A. Ph.D	Assistant Professor	Literature	06 months	Nil
Shafiqul Islam	M.A., M.Phil	Assistant Professor	Literature	06 months	Nil
Teachers transferred /retired / service changed between the period 1 <sup>st</sup> April 2007 to September 2015					
Dr. Md. Maseehur Rahman	M.A., Ph, D	Assistant Professor	Theology	04 years	Nil

\*Mumtaz Al Muhaddisin (Madrasah Aliah University)

11. List of senior visiting faculty: None

12. Percentage of lectures delivered and practical classes handled (programme wise) by temporary faculty: Nil

13. Student-Teacher Ratio (programme wise)

Course	Class	Ratio (Student:Teacher)
UG	1 <sup>st</sup> Year	Honours: 11.5: 1, Gen: 8.7: 1
	2 <sup>nd</sup> Year	Honours: 12.5:1, Gen: 7.5:1
	3 <sup>rd</sup> Year	Honours: 11.2:1, Gen: 8.7:1

14. Number of academic support staff (technical) and administrative staff; sanctioned and filled: Nil

15. Qualifications of teaching faculty with DSc/D.Litt./Ph.D/Mphil/PG.:

Serial No.	Name of Faculty	Qualifications
1	Syed Shah Marhoonul Irshad Alquaderi	M.A.(Double), Ph.D.
2	Syed Mustafa Murshed Jamal Shah Alquadri	M.A. M.M.
3	Dr. Md. Sadrul Islam	M.A. Ph.D.
4	Shafiqul Islam	M.A., M. Phil

16. Number of faculty with ongoing projects from a) National, b) International funding agencies and grants received : Nil

17. Departmental projects funded by DST – FIST; UGC, DBT, ICSSR, etc.: Nil

18. Research Centre /facilities recognized by University: No

19. Publication: (List of publication per faculty from 2010-11 to 2014-15)

Name of the faculty	Number of papers published in Peer reviewed Journal	Number of publications listed in international Database	Monographs	Chapters in Books	Books edited	Books with ISBN	Citation index	SNIP	SJR	Impact factor	H index
Syed Mustafa Murshed Jamal Shah Alquadri	-	-	01	-	-	-	-	-	-	-	-
Md. Sadrul Islam	02	-	01	-	01	-	-	-	-	-	-
Shafiqul Islam	01	-	-	-	-	-	-	-	-	-	-

*Articles Published in different Periodicals and Magazines (without ISSN/ISBN):	
Shafiqul Islam	01

20. Areas of consultancy and income generated: Nil

21. National committees b) International Committees c) Editorial Boards ...

Syed Shah Marhoonul Irshad Alquaderi	Member Board of Studies Gour Banga University.
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**22. Student projects:**

- a) **Percentage of students who have done in-house projects including inter-departmental/ programme:**

100% students of the Undergraduate programme do a project on Environmental Science as mandatory Course work

- b) **Percentage of students placed for projects in organizations outside the institution i.e. in Research laboratories/Industry/ other agencies:** Nil

**23. Awards/Recognitions received by faculty and students :** None**24. List of eminent academicians and scientists/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	Applications received	Selected	Enrolled			
			M	F	Minorities	% Passed
B. A. Hons (entry yr.2010)	334	50	41	9	50	100
B. A. Hons (entry yr. 2011)	178	51	47	4	51	100
B. A. Hons (entry yr. 2012)	217	56	44	0	54	100
B. A. Hons (entry yr. 2013)	309	54	48	6	54	100
B. A. Hons (entry yr. 2014)	376	47	44	37	47	100
B. A. Gen (entry yr. 2010)	332	24	20	15	24	97
B. A. Gen. (entry yr. 2011)	51	37	30	7	37	95
B. A. Gen. (entry yr. 2012)	62	62	45	17	62	96
B. A. Gen. (entry yr. 2013)	103	48	37	11	48	97
B. A. Gen (entry yr 2014)	99	54	36	18	54	96

\*M=Male \*F=Female

**27. Diversity of Students:**

Name of the Course	%of students from the same state	% of students from other States	% of students from abroad
B.A. Honours 2010-11 batch	100%	NIL	NIL
B.A. Honours 2011-12batch	100%	NIL	NIL
B.A. Honours 2012-13 batch	100%	NIL	NIL
B.A. Honours 2013-14 batch	100%	NIL	NIL
B.A. Honours 2014-15 batch	100%	NIL	NIL

**28. How many students have cleared national and state competitive examinations such as NET, SLET, GATE, Civil services, Defence services, etc.**

- Total 03 have qualified NET (2010-14)

**29. Student progression:**

Student progression	Against % enrolled
UG to PG	95
PG to M.Phil.	-
PG to Ph.D.	10
Ph.D. to Post-Doctoral	-
<b>Employed</b>	
Campus selection	NA
Other than campus recruitment	40
Entrepreneurship/Self-employment	-

**30. Details of Infrastructural facilities:**

- **Library:** The Departmental Seminar Library has 300 books for the undergraduate studies.
- **Internet facilities for Staff & Students**  
Internet is available for the faculty in the General Staff Room.  
Students access the internet from the College Library.
- **Laboratories:** NA
- **ICT:** Nil

**31. Number of students receiving financial assistance from college, university, government or other agencies:**

Scheme	2010-11	2011-12	2012-13	2013-14	2014-15
Merit-cum-means Scholarship	-	01 (Rs.9000/-)	-	-	05 (Rs.45000/-)
Kanyashree Prakash K-2	-	-	-	08 (Rs.200000/-)	07 (Rs.175000/-)
Student Aid Fund	03 (Gen) (Rs.1535/-)	02 (Rs.1800/-)	02 + 07 (Gen) (Rs.1800/- + Rs.4320/-)	03 (Gen) (Rs.1800/-)	-

**32. Details on student enrichment programmes (special lectures/workshops/seminar) with external experts : Nil****33. Teaching methods adopted to improve student learning:** Interactive mode is adopted**34. Participation in Institutional Social Responsibility (ISR) and Extension activities:**

Students of the department are active in:

- i) The National Service Scheme (NSS)
- ii) Campus cleaning drive
- iii) Women empowerment initiatives
- iv) Gender sensitization program
- v) Consumer awareness program

**35. SWOC analysis of the department and Future plans:**

<p><b>Strength:</b></p> <p>Teachers are well aware of modern Arabic Language and literature.</p> <p>They are capable to read the Old Arabic manuscript.</p> <p>The students passed out from this department are engaged in different professional courses and getting jobs in Government &amp; private sectors</p>	<p><b>Weakness:</b></p> <p>We have no separate room for department.</p> <p>Absence of Language Lab.</p>
<p><b>Opportunities:</b></p> <p>Our students can get job in National and International sectors. Apart from teaching in universities, colleges and schools there is vast Scope in Libraries, Archives, as Interpreter and translator in Embassies and tourism and private sectors etc.</p>	<p><b>Challenges:</b></p> <p>Most of the students come from remote villages of West Bengal to learn Arabic language and literature .They stay in hostel. Some of them have economic problem so this is a challenge for faculty members to make them prepare for learning Arabic so that they will be capable of getting jobs in school, colleges, and universities, national and international sectors.</p>

**EVALUATIVE REPORT OF THE DEPARTMENT OF BENGALI**

1. **Name of the Department :** Bengali

2. **Year of Establishment:** 1926

3. **Names of Programmes/Courses offered (UG, PG, M.Phil., Ph.D., Integrated Masters; Integrated Ph.D., etc.):**

- UG : B.A. Honours & General in Bengali

4. **Names of Interdisciplinary courses and the departments/units involved:** All students of this Department compulsorily attend Environmental Science classes, which is interdisciplinary in nature.

5. **Annual/semester/choice based credit system (programme wise):**

Program	Annual	Semester	Credit System
<b>BA Honours in Bengali(1+1+1 Years)</b>	<b>1+1+1 Examination System of the University of Calcutta</b>	<b>No</b>	<b>No</b>

6. **Participation of the department in the courses offered by other departments/Institutions:**

Our Department offers Bengali as General subject for the students of the Department of English, Philosophy, History, Islamic History & Culture, Arabic, Persian, Sanskrit, Sociology and Political Science.

In addition, the students of the department can choose MIL as Bengali/English/Urdu/Arabic and they can also opt for any two subjects from English, Philosophy, Economics, History, Islamic History & Culture, Arabic, Persian, Sanskrit, Sociology and Political Science as their General course subjects.

7. **Courses in collaboration with other universities, industries, foreign institutions, other institutions, etc.:** Nil

8. **Details of courses/programmes discontinued (if any) with reasons:** Nil

9. **Number of Teaching posts :**

Name of the Post	Sanctioned	Filled
Professors	Nil	Nil
Associate Professors	04	01 (through CAS)
Asst. Professors		02

10. **Faculty profile with name, qualification, designation, specialization, (D.Sc./D.Litt./Ph.D./M.Phil.etc.):**

Name	Qualification	Designation	Specialization	No. of years of experience	No. of Ph.D. Students guided for the last 4
<b>Dr. Kabita Chanda</b>	<b>MA, Ph.D.</b>	<b>Associate Professor</b>	<b>Tagore's Literature and Stylistics.</b>	<b>32 years.</b>	<b>Nil</b>



Name	Qualification	Designation	Specialization	No. of years of experience	No. of Ph.D. Students guided for the last 4
Dr. Susobhan Mukhopadhyay	MA, Ph.D.	Asstt. Professor	Pre-Modern Bengali Literature and Drama	14 years.	Nil
Dr. Niloy Bakshi	MA, Ph.D.	Asstt. Professor	Modern Literature	8 years.	Nil
Teachers transferred or retired or service changed between the period 1 <sup>st</sup> April 2010 to September 2015					
Dr Ritam Mukherjee (Transferred on 8/06/15)	MA, Ph.D	Asstt. Professor	Comparative Literature and Modern Poetry.	7 months	Nil
Dr. Snigdha Bandyopadhyay (Transferred)	M.A., M.Phil., Ph.D.	Associate Professor	Comparative Literature	25 years	Nil
Dr. Jaya Chakraborty	M.A., Ph.D.	Associate Professor	Comparative Literature	25 years	Nil
Dr. Sandip Mandal	M.A., Ph.D.	Assistant Professor	Modern Literature	12 years	Nil

11. List of senior visiting faculty: None

12. Percentage of lectures delivered and practical classes handled (programme wise) by temporary faculty: Nil, presently there is no temporary faculty in the department

13. Student-Teacher Ratio (programme wise): (academic year 2014-15)

Programme	Class	Ratio (Student: Teacher)
UG (BA Honours and General in Bengali)	1 <sup>st</sup> Year	Honours: 8 : 1, Gen: 30:1
	2 <sup>nd</sup> Year	Honours: 10 : 1, Gen: 23:1
	3 <sup>rd</sup> Year	Honours: 10 : 1

14. Number of academic support staff (technical) and administrative staff; sanctioned and filled: None

15. Qualifications of teaching faculty with D.Sc./D.Litt./Ph.D/Mphil/PG:

Sl. No.	Name of Faculty	Qualifications
1	Dr. Kabita Chanda	Ph.D.
2	Dr. Susobhan Mukhopadhyay	Ph.D.
3	Dr. Niloy Bakshi	Ph.D.

16. Number of faculty with ongoing projects from a) National, b) International funding agencies and grants received :

Mangalkabya: Adhunikata o Punornirman

PI: Dr. Sandip Kumar Mondal

Sanction No. PHW-233/11-12 (ERO) dt. 25.01.12, UGC-MRP, Rs. 102000/-

17. Departmental projects funded by DST – FIST; UGC, DBT, ICSSR, etc.: Nil

18. **Research Centre /facilities recognized by University:** None

19. **Publication:** (List of publication per faculty from 2010-11 to 2014-15)

Name of the faculty	Number of papers published in Peer reviewed Journal*	Number of publications listed in international Database	Monographs	Chapters in Books	Books edited	Books with ISBN	Citation index	SNIP	SJR	Impact factor	H index
Dr. Kabita Chanda	01	-	-	-	-	-	-	-	-	-	-
Dr. Susobhan Mukhopadhyay		-	-	-	-	02	-	-	-	-	-
Dr. Niloy Bakshi	01	-	-	-	01	-	-	-	-	-	-
Dr. Ritam Mukherjee	27	-	-	09	-	02	-	-	-	-	-

<b>*Articles Published in different Journals and Newspapers (without ISSN/ISBN):</b>	
Dr. Kabita Chanda	10
Dr. Niloy Bakshi	23
Dr. Ritam Mukherjee	40
Dr. Snigdha Bandyopadhyay	21

20. **Areas of consultancy and income generated:** None

21. **Faculty as members in**

a) **National committees** b) **International Committees** c) **Editorial Boards...**

Name of the faculty	Members in National committees/ International Committees/ Editorial Boards
Dr Kabita Chanda	Life Member: Bangiya Sahitya Parishad, Abyay Literary Society <i>Chief Editor: MAC Academic Journal of Languages &amp; Social Science, , ISSN 2395-2431</i>
Dr Ritam Mukherjee	Editorial Board of two ISSN Little Magazines: Sahitya Bisari and Purbasha
Dr. Snigdha Bandyopadhyay	Member of the editorial board: 1. Artemiser Vela, Bishnu Dey, Centenary tribute, Maulana Azad Collge, Published under the auspices of UGC, January 2012. 2. Journal of Advanced studies (JAS) Vol 1, January 2015, Published by Behala College, Kolkata. (ISSN 2394-7241).

22. **Student projects:**

- **Percentage of students who have done in-house projects including inter-departmental/ programme:** Students of 3<sup>rd</sup> year Honours takes part in mandatory Environmental Sciences project as per the syllabus of the University of Calcutta
- **Percentage of students placed for projects in organizations outside the institution i.e.in Research laboratories/Industry/other agencies:** None

**23. Awards/Recognitions received by faculty and students:**

Anurag Dutta, 3<sup>rd</sup> year student (2014-15), recipient of Government of India Scholarship in Music (2014).

**24. List of eminent academicians and scientists/visitors to the department:**

Sr. No.	Name	Year
1.	Sri Joy Goswami, Poet	2012
2.	Prof. Sabyasachi Dev, Ex- Prof Govt. College.	2015

**25. Seminars/Conferences/Workshops organized & the source of funding:**

Topic	Speaker	Funding Agency	Date
Endowment Lecture: Binayak Sanyal Smarak Baktrita	Swapnomoy Chakraborty Senjuti Mukhopadhyay	Funded by: Sri Tapabrata Sanyal	22/08/15
Kobitar Dupur Ekok kabita path o alochana	Joy Goswami	UGC-CPE	20/03/13
Shonibarar Dupur Cultural movement through "ism" from painting to literature	Sandip Dutta (Little Magazine) Shyamal Jana	UGC-CPE	20/07/13
Sahitya Sangskritite Rabindrabhabonar Prasangikata	Shri Sudhir Chakraborty Dr. Arindam Chattopadhyay Dr. Himabanta Bandyopadhyay Dr. Chhaya Guha Dr. Partha Sengupta	UGC	16/02/12

**26. Student profile programme/course wise:**

Name of the Course/ programme	Applications received	Selected	Enrolled			
			M	F	Minorities	% Passed
B. A. Hons (entry year 2010)	658	28	13	15	8	100%
B. A. Hons (entry year 2011)	205	35	22	13	24	100%
B. A. Hons (entry year 2012)	181	40	28	12	24	100%
B. A. Hons (entry year 2013)	213	45	23	22	30	97%
B. A. Hons (entry year 2014)	312	28	16	12	24	100%

\*M=Male \*F=Female

**27. Diversity of Students:**

Name of the Course	% of students from the same state	% of students from other States	% of students from abroad
B.A. Honours 2010-11 batch	100	Nil	Nil
B.A. Honours 2011-12batch	100	Nil	Nil

Name of the Course	% of students from the same state	% of students from other States	% of students from abroad
B.A. Honours 2012-13 batch	100	Nil	Nil
B.A. Honours 2013-14 batch	100	Nil	Nil
B.A. Honours 2014-15 batch	100	Nil	Nil

28. **How many students have cleared national and state competitive examinations such as NET, SLET, GATE, Civil services, Defence services, etc.:** Not available

29. **Student progression:**

Student progression	Against % enrolled
UG to PG	91%
PG to M.Phil.	-
PG to Ph.D.	-
Ph.D. to Post-Doctoral	-
Employed	-
Campus selection	-
Other than campus recruitment	-
Entrepreneurship/Self-employment	-

30. **Details of Infrastructural facilities:**

- **Library:** Seminar Library with approximately 200 books
- **Internet facilities for Staff & Students**  
Internet is available for the faculty in the General Staff Room.  
Students access the internet from the College Library.
- **Class rooms with ICT facility:** None
- **Laboratories :** Language Laboratory is available

31. **Number of students receiving financial assistance from college, university, government or other agencies:**

Scheme	2010-11	2011-12	2012-13	2013-14	2014-15
Merit-cum-means Scholarship	-	01 (Rs.9000/-)	-	-	-
Student Aid Fund	01 (Rs. 3000/-)	01 (Rs. 3650/-)	01 (Rs. 4615/-)	01 (Rs. 900/-)	-
Kanyashree Prakalpa K-2	-	-	-	03 (Rs. 75000/-)	03 (Rs. 75000/-)

32. **Details on student enrichment programmes (special lectures/workshops/seminar) with external experts :**

Students participated in a number of cultural sessions for e.g. drama, vocal music, theme dances.

33. **Teaching methods adopted to improve student learning:**

- **Interactive modes:** Enactment of dramas with music and dance
- **Field tours:** Visit to Gandhi Memorial at Barrackpore (2014)
- **Other participatory programmes:**  
Celebration of Antarjatic Bhasha Dibash (21 Feb each year), Rabindra Jayanti (Pochise Vaisakha each year), Prayan Dibas of Rabindranath Tagore (Baishe Sarban each year).

**34. Participation in Institutional Social Responsibility (ISR) and Extension activities :**

- i) The National Service Scheme (NSS)
- ii) Campus cleaning drive
- iii) Women empowerment initiatives
- iv) Gender sensitization program
- v) Consumer awareness program

**35. SWOC analysis of the department and Future plans:**

<b>Strengths:</b>	Healthy student-teacher ratio
<b>Weakness</b>	No separate Departmental Classrooms Scarcity of Non-teaching Staff.
<b>Opportunities:</b>	Frequent special lecture sessions with eminent academicians and literature personalities Multilingual Platform
<b>Challenges:</b>	Enrichment of the Seminar library
<b>Future Plans</b>	Up gradation to PG Inter-Language Courses Academic Seminars Enriched Seminar Library. Audio-Visual Teaching Method.

**EVALUATIVE REPORT OF THE DEPARTMENT OF BOTANY**

1. **Name of the Department :** BOTANY
2. **Year of Establishment:** Honours Course started from 2008.
3. **Names of Programmes/Courses offered (UG, PG, M.Phil., Ph.D., Integrated Masters; Integrated Ph.D., etc.):**  
UG: B.Sc. Honours (BOTANY), B.Sc General (BOTANY).
4. **Names of Interdisciplinary courses and the departments/units involved:** All students of this Department compulsorily attend Environmental Science classes, which are interdisciplinary in nature.
5. **Annual/semester/choice based credit system (programme wise):**  
B.Sc. Honours: Annual Examination (New 1+1+1 system) under the University of Calcutta.
6. **Participation of the department in the courses offered by other departments/ Institutions:**  
Our Department offers Botany as General subject for the students of the Department of Zoology and Microbiology. In addition, the students of the department can choose MIL as Bengali/English/Urdu/Arabic and they can also opt any two subjects from Chemistry, Zoology and Microbiology as their General course subjects.
7. **Courses in collaboration with other universities, industries, foreign institutions, other institutions, etc. :** None
8. **Details of courses/programmes discontinued ( if any) with reasons:** Nil
9. **Number of Teaching posts:**

Name of the Post	Sanctioned	Filled
Professors	Nil	Nil
Associate Professors (under CAS system)	04	02 (through CAS)
Asst. Professors		02

10. **Faculty profile with name, qualification, designation, specialization, (D.Sc./D.Litt./Ph.D./ M.Phil. etc.):**

Name	Qualification	Designation	Specialization	No. of years of experience	No. of Ph.D. Students guided for the last 4 years
Dr. Partha Roy	MSc. Ph. D	Associate Professor and Head	Palaeobotany and Palynology	30 YRS	Nil
Dr. Naim Uddin	MSc. Ph. D	Associate Professor	Mycology and Plant Pathology	18 YRS	Nil
Dr. Rajarshi Roy	M.Sc, Ph. D	Assistant Professor	Plant Physiology, Biochemistry and Molecular Biology	12 YRS	Nil

Dr. Sautrik Basu	M.Sc, Ph.D	Assistant Professor	Cell, biology, Molecular Genetics & Plant Biotechnology	6 YRS	Nil
Dr. Sukanya De.	MSc Ph.D	Part time Lecturer	Mycology and Plant Pathology	10 YRS	Nil
Dr. Urmi Roy (Transferred)	M.Sc, Ph.D	Assistant Professor	Plant Physiology, Biochemistry and Molecular Biology	6 YRS	Nil
Dr. Ushri Roy (Transferred)	M.Sc, Ph.D	Assistant Professor	Plant Physiology, Biochemistry and Molecular Biology	6 YRS	Nil
Dr. T.B.Jha (Guest)	MSc Ph.D	EX-PROFESSOR	Cytogenetics	35 YRS	04

Dr. Swapan Bhattacharya, Associate Professor left the Department of Botany and is fully engaged with the Department of Microbiology from the year 2010.

#### 11. List of senior visiting faculty:

- Prof. Krishnendu Acharya, Ballygunj Science College, Dept. Of Botany, Kolkata
- Dr. Rajib Bandopadhyay, Department Of Botany, Burdwan University
- Dr. Subhasish Panda, Department Of Botany, Darjeeling Govt. College.
- Professor Probir Saha, Bose Institute, Kolkata.
- Prof. Debasish Roy, University Of Hostos. New York. USA.
- Prof. Nirupam Roychoudhuri, Icgcb, New Delhi-110067,
- Prof. T.B. Jha, Ex-Professor of Botany (WBSSES).

#### 12. Percentage of lectures delivered and practical classes handled (programme wise) by temporary faculty:

Lectures Delivered- 10%, (For Honours Classes) and 70% (For General Classes) Practical classes handled-100% (Engaged in practical classes of General students)

#### 13. Student-Teacher Ratio (programme wise):

Programme	Year	Ratio (Hons.)	Ratio (General.)
B.A. Honours & General in Botany (Data for 2013-14)	1 <sup>st</sup>	4 : 1	6.5 : 1
	2 <sup>nd</sup>	3 : 1	6 : 1
	3 <sup>rd</sup>	2 : 1	

#### 14. Number of academic support staff (technical) and administrative staff; sanctioned and filled:

02 (Sri Kuntal Nath- Laboratory Bearer & Sri Sumit Routh, Group-D Staff)

#### 15. Qualifications of teaching faculty with DSc/D.Litt./Ph.D/Mphil/PG.: Present permanent and Part Time/Guest faculty shown in table below:

Sl. No.	Name of Faculty	Qualifications
1	Dr. Partha Roy	M.Sc, Ph.D

Sl. No.	Name of Faculty	Qualifications
2	Dr. Naim Uddin	M.Sc, Ph.D
3	Dr. Rajarshi Roy	M.Sc, Ph.D
4	Dr. Sautrik Basu	M.Sc, Ph.D
5	Dr. Sukanya De (Part Time Lecturer)	M.Sc, Ph.D
6	Dr. Timir Baran Jha (Guest)	M.Sc, Ph.D

**16. Number of faculty with ongoing projects from a) National, b) International funding agencies and grants received :**

Name of Faculty	Title of Project	Funding Agency	Grant Received	Period
1. DR. PARTHA ROY (As CO-PI)	Karyosystematic analysis of Indian lentils through fluorescent chromosome banding.	UGC: Sanction No:MRP-MAJOR-BOTA-2013-163394	Rs 15,96,200/	3YRS
2. DR. RAJARSHI ROY	To Study Genetic Diversity Of Local Castor Plant ( <i>Ricinus Communis</i> , L) Varieties Of Kolkata Through DNA And Protein MARKERS.	Sanction No: PSW-042/11-12 DT 3/8/11	Grant Received: Rs 109000/ Pending Grant: Rs 49000/	12-13
3..DR. USHRI ROY	RAPD & Its Study In Gilled Edible Mushroom In West Bengal.	Sanction No.PSW-056/14-15 (ERO)	RS 475000/	14-15
4. DR. URMI ROY	Structure And Expression Of Samdc Gene In <i>Vigna radiata</i>	Sanction No. PSW - 055/14-15 (ERO)	RS 490000/	14-15
5. PROF T.B JHA (Guest Faculty) (Principal Investigator)	Karyosystematic analysis of Indian lentils through fluorescent chromosome banding.	UGC: Sanction No:MRP-MAJOR-BOTA-2013-163394	Rs 15,96,200/	3YRS

**17. Departmental Projects Funded By DST-FIST; UGC, DBT, ICSSR, Etc. And Total Grants Received:**

YEAR	UGC GRANT	UGC-CPE GRANT	DBT STAR COLLEGE
2011	Rs 100,000/(Chemicals) Rs 5,00,000/- (Dev. Grant)	Rs 100,000/- (equipments)	Rs.700,000/- Rs90,000/ (recurring), Rs83808/(recurring), Rs304898/(equipments)
2012	-	Rs 100,000/- (medicinal plant garden making)	Rs 100,000/(Equipments)
2013	-	Rs 20,000/-(maintenance of medicinal plant garden)	Rs30,000/(non recc) Rs 54875/(recc)
2014	Repairing grant-Rs 8000/ and Rs 10,000/ non-recurring.	PhaseII-Rs60,000/(maintenance of medicinal plant garden).Rs30,000/ (infrastructure development)	Rs30,000/- (recurring and contingency). Rs1,60,000/(recurring grant)



**18. Research Centre /facilities recognized by University:** Prof. Timir Baran Jha is recognized as Ph.D. Supervisor by CU & WBSU

**19. Publications:** (List of publication per faculty from 2010-11 to 2014-15)

Name of the faculty	Number of papers published in Peer reviewed Journal	Number of publications listed in international Database	Monographs	Chapters in Books	Books edited	Books with ISBN	Citation index	SNIP	SJR	Impact factor	H index
Dr. Naim Uddin	02	---	---	---	---	---	---	---	---	---	-
Dr. Rajarshi Roy	02	---	---	---	---	---	---	---	---	---	-
Dr. Sautrik Basu	06	----	----	----	----	----	----	----	----	----	-
Dr Sukanya De	01	----	----	----	----	----	----	----	----	----	-
Dr. Timir Baran Jha	28	----	----	-	----	-	----	----	----	----	-

**20. Areas of consultancy and income generated:** Nil

**21. Faculty as members in:**

a) National committees b) International Committees c) Editorial Boards...

Dr. Rajarshi Roy	*Associate Editor In Journal Of Basic And Applied Sciences *Member Of The Botanical Society Of Bengal.
Dr. Urmi Roy	Assistant Editor In Journal Of Basic And Applied Sciences

**22. Student projects:**

- **Percentage of students who have done in-house projects including inter-departmental/ programme:**
  - i) 100% students of the Undergraduate Courses do projects on Environmental Science and Environmental Studies.
  - ii) Students of First Year, Second year and Third Year Hons were involved in short projects during 2013-2015.
    - a) Second year and Third year Honours students are actively engaged in Hands on training programmes (under DBT Star College Scheme):
    - b) Study of wall flora in old buildings of Kolkata and nearby areas.
    - c) Study of macro fungal diversity in Kolkata and its vicinity.
    - d) Study of wild medicinal plants in and around Kolkata and its vicinity.
    - e) Field reports have been prepared on the basis of Long and Short Field tours conducted in between 2010 and 2014.
- **Percentage of students placed for projects in organizations outside the**

institution i.e. in Research laboratories/Industry/ other agencies: NIL

### 23. Awards/Recognitions received by faculty and students:

- Sourav Chatterjee, 2<sup>nd</sup> year Hons , received first Prize in Poster Presentation Students Science Congress, 2015
- Akash Malitha and Arnab Dutta (2<sup>nd</sup> year Hons) received first prize in Model presentation in Students Science Congress, 2015.
- Sachin Agarwal, First year Hons, received third prize in Speech in Student's Science Congress, 2015.
- Subhasis Sarker, 2<sup>nd</sup> year Hons , received third prize in Quiz Contest organized by Birla Tyres, 2012.
- Farheen Khanam, 2<sup>nd</sup> year Hons, received second prize in Quiz Contest organized by Birla Tyres, 2012.

### 24. List of eminent academicians and scientists/visitors to the department:

Sr No.	Name		Program details with date
1.	Professor. Debasish Roy	City Univ. Of New York, Dept. of Natural Science,	Invited Talk in a seminar "Radiation induced Breast cancer Progression" -16.01.2015
2.	Dr. Nirupam Roy Choudhuri	Dept. of Molecular Biology, ICGEB, New Delhi.	Invited Talk in a seminar "Gemini Virus an excellent Model to study Eukaryotic DNA Replication " - 17.02.2015
3.	Professor. Probir Saha	Professor in Botany, Plant Physiology Lab, Bose Institute, Kolkata.	Invited Talk in a seminar "Scope of Plant Science in Indian Scenario" -06.09.2014
4.	Prof. Krishnendu Acharya Acharya	Professor in Botany, Mycology Lab, Ballygunj Science College, Kolkata.	Invited Talk in a seminar "Cross talk between Host Plant and Pathogen"-29.10.2013
6	Dr. Subhasish Panda	Assistant Professor in Botany, Darjeeling Govt. College, Darjeeling.	Invited Talk in a seminar "Endemism in North Eastern parts of West Bengal"-2012

### 25. Seminars/Conferences/Workshops organized & the source of funding:

- National :

Topic	Speaker	Funding Agency	Date
Endemism in North Eastern parts of West Bengal.	Dr. Subashis Panda, Assistant Professor of Botany, Darjeeling Govt. College	DBT	2012
Cross talk between Host Plant and Pathogen.	Dr. Krishnendu Acharya, Professor of Botany, C.U.	DBT	29/10/13
Scope of Plant Science in Indian Scenario.	Prof. P.K. Saha , Bose Institute, Plant Physiology Laboratory	DBT	6/9/14
Radiation Induced Breast Cancer Progression.	Prof. Debasish Roy, Department of Molecular Biology, Hostos Campus, Nu York.	DBT	16/1/15
Gemini Virus, An Excellent Model to Study Eukaryotic DNA Replication	Prof. Nirupam Roychoudhuri, CSIR- ICGEB, New Delhi.	DBT	17/1/15

• **International :**

Radiation Induced Breast Cancer Progression.	Prof. Debasish Roy, Department of Molecular Biology, Hostos Campus, Nu York.	DBT	16/1/15
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**26. Student profile programme/course wise:**

Name of the Course/ programme	Applications received	Admitted	Enrolled			
			M	F	Minorities	% Passed
B. Sc. Hons (entry year 2010)	460	15	7	8	-	100
B. Sc. Hons (entry year 2011)	449	23	11	12	-	90
B. Sc. Hons (entry year 2012)	405	22	12	10	-	70
B. Sc. Hons (entry year 2013)	400	23	13	10	-	100
B. Sc. Hons (entry year 2014)	580	19	14	5	6	100

\*M=Male \*F=Female

**27. Diversity of Students:**

Name of the Course	% of students from the same state	% of students from other States	% of students from abroad
B.Sc. Honours 2010-11 batch	15	0	0
B.Sc. Honours 2011-12batch	23	0	0
B.Sc. Honours 2012-13 batch	22	0	0
B.Sc. Honours 2013-14 batch	23	0	0
B.Sc. Honours 2014-15 batch	19	0	0

**28. How many students have cleared national and state competitive examinations such as NET, SLET, GATE, Civil services, Defence services, etc.**

**NET:** Sayeda Kaniz Zehra Batch- 2008- 2011 Qualified NET (Studied P.G courses from Bethune College, Kolkata).

**29. Student Progression**

Student progression	Against % enrolled
UG to PG	80 %
PG to M.Phil.	-
PG to Ph.D.	15%
Ph.D. to Post-Doctoral	-
<b>Employed</b>	10%
Entrepreneurship/Self-employment	60%

**30. Details of Infrastructure facilities:**

**\*Library:** The Seminar library of the Department houses approximately 200 books of different titles.

**\*Internet facilities for staff members and students:** Internet facility is available in the Department for the staff members only and the students access the internet from the College library.

**\*Class rooms with ICT facility: 02**

**\*Laboratories:** Apart from the two laboratories cum class rooms and one general biochemistry laboratory the Department has one small Research laboratory (UGC funded) for Plant tissue culture work.

**\*Instruments:** Due to severe space crunch the Department primarily houses common laboratory instruments (like hot air oven, incubator, autoclave and student's microscopes) for the UG students. However, few moderately high end instruments are also available for the faculty members.

**List of Instruments:**

- ❖ Visible spectrophotometer
- ❖ Horizontal and vertical gel electrophoresis apparatus with power supply unit.
- ❖ Cold centrifuge
- ❖ Low speed centrifuge
- ❖ Micro centrifuge
- ❖ pH meter
- ❖ Digital balance
- ❖ Trinocular research microscope
- ❖ Rotary evaporator (with oil pump)
- ❖ Soxhlet apparatus
- ❖ Magnetic stirrer
- ❖ Cyclo mixer
- ❖ Laminar air flow cabinet
- ❖ Thermal cycler
- ❖ UV transilluminator
- ❖ Gel viewer and drier
- ❖ Refrigerators ( normal, -20<sup>0</sup>C and 4<sup>0</sup>C)
- ❖ Temperature controlled circulating water bath
- ❖ Gyrotory shaker
- ❖ TLC plate viewer
- ❖ Computer with Internet Connections.
- ❖ LAPTOP-02
- ❖ LCDProjector-02

**31. Number of students receiving financial assistance from college, university, government or other agencies:**

Scheme	2010-11	2011-12	2012-13	2013-14	2014-15
Student Aid Fund	-	01 (Rs.800/-)	-	-	-

**32. Details on student enrichment programmes (special lectures / workshops / seminar) with external experts :**

Programme	2010-2011	2011-2012	2012-2013	2013-2014
DBT-Star College Programme	NIL	01	02	03

**33. Teaching methods adopted to improve student learning:** Interactive modes adopted

**34. Participation in Institutional Social Responsibility (ISR) and Extension activities:**

- a. The National Service Scheme (NSS)
- b. Campus cleaning drive
- c. Women empowerment initiatives
- d. Gender sensitization program
- e. Consumer awareness program
- f. Medicinal Plant Garden. - Established in the year 2012 from UGC- CPE scheme. The garden contains 22 medicinal herbs.

### 35. SWOC analysis of the department and future plans:

#### Strength:

- ⇒ The Department started Honours Course from July, 2008 onwards as recommended by the NAAC team in the year 2007.
- ⇒ As the college has grown along with its departments, adequate space has become a need.
- ⇒ As part of a reputed government college it draws the best and the brightest along with a good number of students from different backgrounds especially from Minority families.
- ⇒ In spite of limited space in the Department a large number of students show their interest to get admitted in the Department of Botany. The University results are satisfactory each year. Most of the students after completing their UG course in Botany get admitted in PG courses in Botany as well as in various Disciplines.
- ⇒ Few students are also appearing in competitive exams (Civil services, NET, GATE, SLET, WBFS etc) with Botany as a major subject.
- ⇒ Field tours conducted by the Department is enriching the students towards understanding the phytodiversity of our country and also helping in the development of a deep sense of belonging and fellow feeling among them.
- ⇒ Dedicated, hardworking and qualified faculties.
- ⇒ Good infrastructure and amenities.
- ⇒ Good student-faculty ratio.
- ⇒ Adequate library facility.
- ⇒ Continuous participation of the students in workshops and interdisciplinary programmes.
- ⇒ Guidance, motivation and continuous support from the Principal and Convenors of different Committees.

#### Weakness:

- Severe shortage of space is hampering the future developmental activities of the Department (viz. Expansion of existing laboratories and construction of new research laboratories).
- Preference for professional courses after XII<sup>th</sup> over courses in bio- science by the students.
- Since a good majority of the students are first generation learners, hence motivation level among them is low.
- Being a Government college recruitment and transfer of teaching/non-teaching staff depends on Government policies and the process of filling up of vacant posts or sanction of new posts is slow.
- The Department does not have Laboratory Assistant or administrative staff for running its activities.
- Academic and Administrative work of the Department is solely done by the Head and other faculty members.
- Scope of orienting students towards higher studies and research is limited due to packed Examination schedules (1+1+1 System) and shortage of infrastructure.

#### Future Plans:

- ✓ Expansion of the Department is necessary in order to expose the students to different types of instruments.
- ✓ Improvement of the existing research facility by the procurement of few more high end instruments.
- ✓ Conversion of the existing classrooms into smart classrooms with ICT facility.
- ✓ The faculty members of the Dept wishes to explore more collaboration with other Universities and reputed research institutes of the state/country.
- ✓ Motivate students to clear competitive examinations ( NET, GATE, Civil Service etc.) after completion of PG courses.
- ✓ The Dept. houses a very important and rare collection of herbarium specimens depicting the diverse flora of Sundargarh district of Orissa (by Prof. Ambarish Mukherjee and Late Dr. D. Namhata under the State flora project of BSI) and the Dept. wishes to digitize the herbarium sheets and prepare a digital herbarium. The digitization process is in progress.
- ✓ To undertake research in the fields of molecular biology, biotechnology and molecular cytogenetic.

## EVALUATIVE REPORT OF THE DEPARTMENT OF CHEMISTRY

### 1. Name of the Department: CHEMISTRY

### 2. Year of Establishment: 1926

### 3. Courses Offered:

UG: B.Sc. HONOURS in CHEMISTRY (1+1+1 Years) and Chemistry is also offered as a General subject for the Students opting for the B.Sc. Honours course in Physics, Mathematics, Botany, Zoology and Microbiology during their 1<sup>st</sup> and 2<sup>nd</sup> year.

### 4. Names of the Interdisciplinary Courses in which the Department is Involved: Students of this department is involved in mandatory Environmental Sciences course (as prescribed by the University of Calcutta), which is interdisciplinary in nature.

### 5. Annual /Semester/Choice Based Credit System (Programme Wise):

<i>Program</i>	<i>Annual</i>	<i>Semester</i>	<i>Credit system</i>
<b>B.Sc. Honours in Chemistry (1+1+1 Years)</b>	1+1+1 Examination System of the University of Calcutta	No	No

### 6. Participation of the Department in Courses Offered by Other Departments:

- (i) Students of B.Sc. Honours in Chemistry opt for Compulsory English, MIL Bengali, Physics and Mathematics as their auxiliary subjects in General Course during the 1<sup>st</sup> and 2<sup>nd</sup> year.
- (ii) Chemistry as a General subject is opted by the Students of the B.Sc. Honours course in Physics, Mathematics, Botany, Zoology and Microbiology during their 1<sup>st</sup> and 2<sup>nd</sup> year study.

### 7. Courses in Collaboration with Other Universities, Industries, Foreign Institutions etc.: None

### 8. Details of Programmes /Courses Discontinued(If Any) with reasons: None

### 9. Number of Teaching Posts:

<b>Name of the Post</b>	<b>Sanctioned</b>	<b>Filled</b>
Professor	01	Nil
Associate Professor	08	03 (through CAS)
Assistant Professor		05

### 10. Faculty Profile with Name, Qualification, Designation, Specialization (D.Sc./ D.Litt./ Ph.D./ M. Phil etc.):

<i>Present Faculty (Permanent Full Time)</i>					
<b>Name</b>	<b>Qualification</b>	<b>Designation</b>	<b>Specialization</b>	<b>No. of years of experience</b>	<b>No. of Ph.D. students guided for last 4 years</b>
Dr. Ashis Kr. Mukherjee	M.Sc. Ph.D.	Associate Professor	Inorganic Chemistry	25 years	Nil
Dr. Subhendu Maiti	M.Sc. Ph.D.	Associate Professor	Physical Chemistry	16 years	Nil
Dr. Sudip Bandyopadhyay	M.Sc. Ph.D.	Assistant Professor	Physical Chemistry	12 years	Nil

<i>Present Faculty (Permanent Full Time)</i>					
Name	Qualification	Designation	Specialization	No. of years of experience	No. of Ph.D. students guided for last 4 years
Dr. Arijit Chakraborty	M.Sc. Ph.D.	Assistant Professor	Organic Chemistry	9 years	03 (one completed and two are ongoing)
Dr. Ambarish Ray	M.Sc. Ph.D.	Assistant Professor	Analytical Chemistry	8 years	01 (ongoing)
Dr. Subhodip Samanta	M.Sc. Ph.D.	Assistant Professor	Physical Chemistry	6 years	Nil
Sri Sanju Das	M.Sc. (NET Qualified)	Assistant Professor	Inorganic Chemistry	6 years	Nil
Sri Arijit Kundu	M.Sc. (NET Qualified)	Assistant Professor	Organic Chemistry	5 years	Nil
<i>Present Faculty (Part-Time)</i>					
Dr. Satyabrata Mukherjee	M.Sc. Ph.D.	Part Time Teacher	Physical Chemistry	39 years	Nil
Dr. Dipak Sen	M.Sc. Ph.D.	Part Time Teacher	Physical Chemistry	31 years	Nil
Dr. Shyamal Roy Chhaudhury	M.Sc. Ph.D.	Part Time Teacher	Inorganic Chemistry	31 years	Nil
Dr. Saroj Kumar Ray	M.Sc. Ph.D.	Part Time Teacher	Inorganic Chemistry	31 years	Nil
<i>Teachers Transferred Or Retired Between The Period 1<sup>st</sup> April 2010 To September 2015</i>					
Sri Pratap Ch. De (Retd.)	M.Sc.	Associate Professor	Physical Chemistry	36 years	Nil
Sri Dulal Guria (Retd.)	M.Sc.	Associate Professor	Organic Chemistry	36 years	Nil
Dr. Deb Kumar Mitra (Retd.)	M.Sc. Ph.D.	Associate Professor	Biochemistry	25 years	Nil
Dr. Papiya Ganguli (Transferred)	M.Sc. Ph.D.	Associate Professor	Physical Chemistry	21 Years	Nil
Dr. Swapan Chakraborty (Transferred)	M.Sc. Ph.D.	Associate Professor	Physical Chemistry	32 Years	Nil
Dr. Aparna Sen (Transferred)	M.Sc. Ph.D.	Associate Professor	Biochemistry	21 Years	Nil
Dr. Suman Das (Left WBES)	M.Sc. Ph.D.	Assistant Professor	Physical Chemistry	11 Years	Nil
Sri Chittaranjan Das (Transferred)	M.Sc.	Associate Professor	Organic Chemistry	26 years	Nil
Dr. Suparna Basu Chaki (Transferred)	M.Tech. Ph.D.	Associate Professor	Applied Chemistry	22 years	Nil

11. List of Senior Visiting Faculty: None

12. Percentage of Lectures Delivered and Practical Classes Handled (Programme Wise) by the Temporary Faculty:

Academic Session	Programme	% of Classes Taken by the Part-time Teachers
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	B.Sc. Honours + General in Chemistry	<i>Theory</i>	<i>Practical</i>
2014-15		20%	08%
2013-14		26%	06%
2012-13		25%	08%
2011-12		31%	08%

### 13. Student-Teacher Ratio (Programme Wise): (2014-15)

Programme	Year	Ratio	
		Honours	General
B.Sc. Honours + General in Chemistry	1 <sup>st</sup>	2.6 : 1	9.8 : 1
	2 <sup>nd</sup>	2.2 : 1	10.3 : 1
	3 <sup>rd</sup>	1.5 : 1	In 3 <sup>rd</sup> yr. no general course is taught

### 14. Number of Academic Support Staff (Technical) and Administrative Staff; Sanctioned and Filled:

Category of support staff	Sanctioned	Filled	Name of the Staff	Designation
Group C	01	01	Mr. Tarique Ali Nayyar	Compounder
Group D	04	03	Mr. SK Tayab Rahaman	Skilled Bearer
			Mr. Avijit Das	Farash
			Mr. Pradip Kr Mohinta	Lab Bearer

### 15. Qualifications of Teaching Faculty with D.Sc./ D.Litt./ Ph.D./ M.Phil./PG.:

Following is the details of Qualification of Existing Teachers, and Teachers Transferred, or Retired between the periods 1<sup>st</sup> April 2007 to September 2015:

Name	Designation	Qualification
Dr. Ashis Kr. Mukherjee	Associate Professor	M.Sc.,Ph.D.
Dr. Suvendu Maiti	Associate Professor	M.Sc.,Ph.D.
Dr. Sudip Bandyopadhyay	Assistant Professor	M.Sc.,Ph.D.
Dr. Arijit Chakraborty	Assistant Professor	M.Sc.,Ph.D.
Dr. Ambarish Ray	Assistant Professor	M.Sc.,Ph.D.
Dr. Subhodip Samanta	Assistant Professor	M.Sc.,Ph.D.
Sri Sanju Das	Assistant Professor	M. Sc., NET
Sri Arijit Kundu	Assistant Professor	M. Sc., NET
Dr. Satyabrata Mukherjee	Part Time Teacher	M.Sc.,Ph.D.
Dr. Dipak Sen	Part Time Teacher	M.Sc.,Ph.D.
Dr. Shyamal Roy Chhaudhury	Part Time Teacher	M.Sc.,Ph.D.
Dr. Saroj Kumar Ray	Part Time Teacher	M.Sc.,Ph.D.
Sri Pratap De	Retired	M.Sc
Sri Dulal Guria	Retired	M.Sc
Dr. Deb Kumar Mitra	Retired	M.Sc.,Ph.D.
Dr. Papiya Ganguli	Transferred	M.Sc.,Ph.D.
Dr. Swpan Chakraborty	Retired	M.Sc.,Ph.D.
Dr. Aparna Sen	Transferred	M.Sc.,Ph.D.
Dr. Suman Das	Left WBES	M.Sc.,Ph.D.
Sri Chittaranjan Das	Transferred	M.Sc
Dr. Suparna Basu Chaki	Transferred	M.Tech.,Ph.D.



### 16. Number of Faculty with Ongoing Projects from A) National B) International Funding Agencies and Grants Received:

Four (04) faculty members of the department are currently engaged in major/minor research project works funded by different National Research Funding Agencies. Details are as follows:

Name Of The Faculty	Funding Agency	2010-2011 (Title Of The Project With Sanction No. And Outlay)	2011-2012 (Title Of The Project With Sanction No. And Outlay)	2012-2013 (Title Of The Project With Sanction No. And Outlay)	2013-2014 (Title Of The Project With Sanction No. And Outlay)	2014-2015 (Title Of The Project With Sanction No. And Outlay)
Dr. Arijit Chakraborty	UGC	“ <i>Scaffold Decoration of Dihydropyrimidones ... On <math>Ca^{2+}</math>-ATPase activity</i> ” PSW-053/10-11, dt. 20.10.10 Rs.1,77,000/-	Completed	-	-	-
	SERB (FT-DST)	-	“Development of heterocyclic ... silicon based OLED” SR/FT/CS-116/2010 dt. 07.06.2012 Rs. 19,70,000/-	Continuing	Continuing	Continuing
Dr. Ambarish Ray	UGC	“ <i>Cyanometalate Incorporated ... Physicochemical Studies</i> ” PSW-048/07-08, dt. 21.02.08 Rs. 79, 484/-	Completed	-	-	-
	UGC	-	-	-	“ <i>Polynuclear Metal Complexes... Physicochemical studies</i> ” PSW-196/13-14, dt. 01.08. 14 Rs.4,48,000/-	Continuing
Mr. Sanju Das	UGC	-	-	-	“ <i>Synthesis, Structural.... Azido Complexes</i> ” PSW-	Continuing

Name Of The Faculty	Funding Agency	2010-2011 (Title Of The Project With Sanction No. And Outlay)	2011-2012 (Title Of The Project With Sanction No. And Outlay)	2012-2013 (Title Of The Project With Sanction No. And Outlay)	2013-2014 (Title Of The Project With Sanction No. And Outlay)	2014-2015 (Title Of The Project With Sanction No. And Outlay)
					197/13-14, dt. 01.08.14 Rs. 4, 50, 000/-	
Dr. Subhodip Samanta	UGC	-	-	-	-	“Photophysical Studies of .... (FRET)” PSW-054/14-15, dt. 03.02.15 Rs. 3,20,000/- Continuing

**17. Departmental Projects Funded by DST-FIST; UGC, DBT, ICSSR, etc. And Total Grants Received:**

Departmental Grant	Year	Recurring Amount	Non recurring Amount
UGC-CPE	2011-12	Rs.2,00,000/-	Rs.1,00,000/-
DBT-INDIA	2011-12	Rs.2,00,000/-	Rs.5,00,000/-
DST-FIST	2012-13	-	Rs.3,46,000/-
UGC-CPE	2013-14	-	RS. 40,000/-
UGC-Addl. Grant	2013-14	-	Rs.8,10,000/-
UGC-XII Plan	2013-14	-	RS. 40,000/-
DBT-INDIA	2013-14	-	-
DBT-INDIA	2014-15	Rs.2,00,000/-	-

**18. Research Centre /facility recognized by the University:** The University of Calcutta; The Jadavpur University

(Dr. Arijit Chakraborty & Dr. Ambarish Ray are recognized as Ph.D. Supervisor by the CU & JU)

**19. Publications per faculty: (2010-2015)**

Following is the Year wise total number of Publications by the Department of Chemistry from 2010 to 2015:

Name of the faculty	Number of papers published in Peer reviewed Journal	Number of publications listed in international Database	Monographs	Chapters in Books	Books edited	Books with ISBN	Citation index	SNIP	SJR	Impact factor	H index
Dr. Sudip Bandyopadhyaya	02	02	-	-	-	02	-	1.132	1.271	2.775	-
Dr. Arijit Chakraborty	07	07	-	-	-	-	620	0.509 to 1.823	0.258 to 3.293	0.621 to 4.651	11
Dr. Ambarish Ray	03	03	-	-	-	-	103	0.675 to 1.383	0.476 to 1.926	3.708 to 4.101	06
Dr. Subhodip Samanta	03	03	-	-	-	-	85	0.744 to 1.284	0.666 to 1.575	2.232 to 4.101	05
Sri Sanju Das	04	04	-	-	-	-	02	0.744 to 1.383	0.634 to 1.926	1.991 to 4.101	-
Sri Arijit Kundu	02	01	-	-	-	-	-	-	-	0.4 to 3.708	-

**20. Areas of Consultancy and Income Generated:** None**21. Faculty as Members in National committees b) International Committees c) Editorial Boards**

...

*National Committees:*

Name of the Faculty	National Committees
Dr. Ashis Kr Mukherjee	Life Member, Indian Chemical Society
Dr. Arijit Chakraborty	Life Member, IACS Kolkata, Life Member, Indian Chemical Society
Dr. Ambarish Ray	Life Member, IACS Kolkata
Dr. Sudip Bandyopadhyay	Life Member, IACS Kolkata
Dr. Subhodip Samanta	Member, Indian Science Congress Association Life Member, IACS Kolkata,

*Editorial Boards:*

Dr. Arijit Chakraborty is a Member of the Editorial Board of a Journal Published from Maulana Azad College named "MAC-Journal of Basic & Applied Sciences".

**22. Student Projects:**

(i) Percentage of Students who have done In-House Projects including inter departmental/programme:

- In each year 100 % of the 3<sup>rd</sup> year students of B.Sc. honours in Chemistry does an 'In-house Environmental Project' as per Calcutta University guidelines of B.Sc. Honours in Chemistry (1+1+1 Years) course.
- Selective students of B.Sc. honours in Chemistry (1<sup>st</sup>, 2<sup>nd</sup> and 3<sup>rd</sup> year) participate in Departmental Workshop and Hands on Training programmes sponsored by DBT, India (Refer to Item no. in questionnaires- 32).
- Periodical Workshops are arranged for the students of other Science Departments for handling spectroscopic instruments and computational interpretation of spectral data (Refer to Item no. in questionnaires- 32).

(ii) **Percentage of students placed for projects in organizations outside the institution:** Nil

(Details of the Workshops/ Hands on Training programmes sponsored by DBT, India organized by the Chemistry are given in the Table of Item no. in questionnaires- 25).

### 23. Awards/ Recognitions Received by Faculties and Students :

Participant	Event	Date	Award/recognition
Ayon Mukherjee & Tanoy Dutta	UGC SPONSORED QUIZ COMPETITION (International Year of Chemistry): Bethune College, Kolkata	15/12/2011 & 16/12/2011	1 <sup>st</sup> position
Ayon Mukherjee & Tanoy Dutta	POSTER COMPETITION (International Year of Chemistry): Lady Brabourne College in collaboration with Indian Chemical Society	03.02.2012	1 <sup>st</sup> position
Ayon Mukherjee & Tanoy Dutta	19 <sup>th</sup> DIPTA MEMORIAL SYMPOSIUM BY BOSE INSTITUTE (QUIZ COMPETITION)	16.09.2011	3 <sup>rd</sup> position
Poulami Das	UGC SPONSORED NATIONAL SYMPOSIUM, (Debate Competition, International Year of Chemistry): Maulana Azad College, Kolkata	23/11/2011 & 24/12/2011	2 <sup>nd</sup> position

### 24. List of Eminent Academicians and Scientists/ Visitors to the Department :

Sl. No.	Name of the Academician/Scientists	Year of Visit	Purpose
1	Prof. Asutosh Ghosh, Dean of Sc., University of Calcutta	2014 2011	Invited Lecture-DBT workshop Invited Lecture-UGC Seminar
2	Prof. Subhas Chandra Bhattacharya, HOD Chemistry, Jadavpur University	2014	Invited Lecture-DBT workshop
3	Prof. Amitava Sarkar, Scientist, Org. Chem. Div., IACS Kolkata	2014	Invited Lecture-DBT workshop
4	Dr. Suhrit Ghosh, Scientist, Polymer Sc. Div., IACS Kolkata	2014	Invited Lecture-DBT workshop
5	Dr. Chandrakanta Bandyopadhyay, HOD Chemistry, Rahara R.V.C. College	2014 & 2015	Invited Lecture-DBT workshop
6	Dr. Suman Das, Asst. Prof., Dept. of Chem., Jadavpur University	2015	Invited Lecture-DBT workshop
7	Prof. Dhrubajyoti Chattopadhyaya, Pro VC, University of Calcutta	2011	Chief Guest & Invited Lecture-UGC Seminar
8	Prof. Debshankar Roy, Scientist, Physical Chem. Div., IACS Kolkata	2011	Invited Lecture-UGC Seminar
9	Prof. Projit Basu, Chemical Sc. Div., University of Hyderabad	2011	Invited Lecture-UGC Seminar
10	Prof. Dipak Dasgupta, Biophysical Div., SNIP, Kolkata	2010	Invited Lecture-UGC Seminar
11	Dr. Dilip Kr. Maiti, Asso. Prof., Dept of Chemistry, University of Calcutta	2013	Invited Lecture-DBT workshop
12	Prof. Kankan Bhattacharya, Scientist, Ex Director, Phys Sc Div., IACS Kolkata	2010	Chief Guest-UGC Seminar
13	Prof. P. Balaram, Ex Director, IISC, Bangalore	2010	Chief Guest-UGC Seminar

Sl. No.	Name of the Academician/Scientists	Year of Visit	Purpose
14	Prof. V. Ramamurthy, University of Miami, Florida	2010	Chief Guest-UGC Seminar
15	Prof. Tapan Ganguly, Dept. of Spectroscopy, IACS Kolkata	2010	Invited Lecture-UGC Seminar
16	Prof. Samita Basu , Chem. Sc. Div., SINP	2010	Invited Lecture-UGC Seminar
17	Prof. Amarendranath Patra, Dept of Chemistry, University of Calcutta	2010	Invited Lecture-UGC Seminar
18	Prof. Tarashankar Pal, Dept. of Chem. , IIT-Kharagpur	2010	Invited Lecture-UGC Seminar
19	Prof. Tapas Chakraborty, Scientist, Phys. Chem. Div., IACS Kolkata	2010	Invited Lecture-UGC Seminar
20	Prof Anunay Samanta, School of Chemistry, University of Hyderabad	2010	Invited Lecture-UGC Seminar
21	Prof. Shyamal Chakraborty, Secretary UG SC., University of Calcutta	2010	Invited Lecture-UGC Seminar
22	Prof. Manotosh Panja, Dept. of Chem., Presidency University, Kolkata	2010	Invited Lecture-UGC Seminar
23	Prof Soumen Basak , Chem. Sc. Div., SINP	2010	Invited Lecture-UGC Seminar
24	Prof. Ambikesh Mahapatra, Dept. of Chem., Jadavpur University	2015	Invited Lecture-DBT workshop
25	Dr. Arup Gayen, Asst. Prof. Dept. of Chem., Jadavpur University	2015	Invited Lecture-DBT workshop
26	Dr. Partha Pratim Parui, Asst. Prof. Dept. of Chem., Jadavpur University	2015	Invited Lecture-DBT workshop

### 25. Seminars/ Conferences/Workshops Organized by the Department & the Source of Funding :

Type	Funding Agency	2010-11	2011-12	2012-13	2013-14	2014-15
Seminar; National	UGC-Sponsored	National Seminar on 'Spectroscopy'	IYC-2011 "The Journey of Chemistry Through Ages – Yesterday Today Tomorrow"	-	-	-
Workshop/ Hands on Training	DBT-Sponsored	-	Hands on Training: Bio-mimetic Syntheses	1. Hands on Training: Structure Elucidation by IR-Spectroscopy 2. Hands on Training: Food Adulteration	Hands on Training: Bio-applicability In Chemistry	Hands on Training: Chemical Preludes in Biology
Any other	University of Calcutta	Celebration of 150 years birth anniversary of Acharya P. C. Ray	-	-	-	-

**26. Student Profile Programme/Course Wise:**

Name of the Course/ programme	Applications received		Selected	Enrolled						Pass Percentage
	Academic Session	No.		Male	Female	SC	ST	OBC	Minorities	
UG Chemistry (Honours)	2010-11	894	30	16	14	05	02	01	07	90%
	2011-12	1122	32	25	07	09	0	05	09	91%
	2012-13	996	43	33	10	08	02	04	11	93%
	2013-14	2029	41	37	04	10	01	07	14	98%
	2014-15	1618	30	18	06	01	03	02	10	98%

**27. Diversity of Students:**

Year	Name Of The Course (UG/PG)	% Of Students From The Same State	% Of Students From Other States	Percent Of Students From Abroad
2010-11	UG	100 %	Nil	Nil
2011-12	UG	100 %	Nil	Nil
2012-13	UG	100 %	Nil	Nil
2013-14	UG	100 %	Nil	Nil

**28. How many Students have cleared National and State Competitive Examinations such as NET, SLET, GATE, Civil Services, Defence Services, etc.:**

Examination	2011	2012	2013	2014	2015
NET	02	03	01	02	-
GATE	03	04	-	-	-
JAM / TIFR	03	05	01	-	09 (JAM) 2 (TIFR)

**29. Student Progression:**

Student Progression	Against % Enrolled
<i>UG to PG</i>	98 %
<i>PG to M. Phil.</i>	Nil
<i>PG to Ph.D.</i>	30 %
<i>Ph.D. to Post –Doctoral</i>	1%
<i>Employed:</i>	
<i>Campus Selection:</i>	<i>Nil</i>
<i>Other than Campus recruitment:</i>	40%
<i>Entrepreneurship/Self-employment</i>	20%

**30. Details of Infrastructural Facilities :**

a) *Library:* Yes, Department has a well organized Seminar Library having 228 number of books (borrowed from the Central Library of the Maulana Azad College) of different subject diversity in chemistry. This facilitates easy borrowing and referencing of books by the students and the faculties of the Department.

b) *Internet facilities for Staff & Students:* High speed internet facility is available

c) *Number of computers with internet link:* 03

d) Class rooms with ICT facility: 01

e) Number of E-classrooms: 01

f) Wi-Fi connectivity: 01

g) Laboratories (include dark room/balance room/animal house/tissue culture lab etc):

UG Organic Chemistry Laboratory: 01, Spacious & with all the facilities to run UG practical course

UG Inorganic Chemistry Laboratory: 01, Spacious & with all the facilities to run UG practical course

UG Physical Chemistry Laboratory: 01, Spacious & with all the facilities to run UG practical course

Research laboratories: 03 (Organic, Inorganic & Physical/Theoretical Research Laboratory)

Instrument/Balance Room: 01

i) Instrumental/Computer Facilities Available In Research Laboratories of the Department:

<i>Instrument</i>
Parkin Elmer –FT-IR Spectrometer with accessories
LS55 Spectro-Fluorimeter, Perkin-Elmer
Lambda25 Spectrophotometer, Perkin-Elmer
i) Eyela Rotary Vacuum Evaporator(with digital water bath)
ii) Eyela Powerful Aspirator
iii) Eyela low temp. Bath with magnetic stirrer Model
iv) Omega Chiller/water Bath Circulator
Digital Temperature control oil bath
Omega water bath (RT+5°C to 80°C control) Setting Range 10°C-80°C Digital Controller Heater with shaker 1300W
Ultra High Vacuum Pump (with accessories)
Fume Chamber-SNS
Electronic weighing Balance (SARTORIUS), Weighing capacity:220g, Probability: 1mg x 2
Electronic weighing Balance (WENSER), Weighing capacity:220g, Probability: 1mg x 2
Electronic weighing Balance, Weighing capacity:220g, Probability: 0.1mg x 2
Electronic weighing Balance(WENSER), Weighing capacity:220g, Probability: 0.01mg
Electronic weighing Balance(WENSER), Weighing capacity:220g, Probability: 10 mg
Conductivity Bridge (Systronics) x 4
Photo Electric Colorimeter (Systronics) x 4
Potentiometer (Equiptronics/Systronics) x 7
pH meter (Systronics) x 4
Automatic Digital Polarimeter
Motorless Magnetic Stirrer (Tarson) x 4
Melting Point Apparatus (MAC) x 3
Magnetic stirrer without Hot Plate (Remi) x 2
Magnetic stirrer with Hot Plate (Remi) x 3
Magnetic stirrer with energy Regulator (MAC) x 1
Olympus Stereoscopic Binocular Microscope
Micro Processor Control Electrically Heating Oven
Vacuum Chamber with Vacuum Pump
Inert Gas cylinder and Distribution System
Water Distillation Unit
Low temperature bath with magnetic stirrer (ambient to – 80°C)
Melting point apparatus

Refrigerator x 2
Heating Mantle x 8
Melting point apparatus digital
Ultrasonic bath
Vacuum pump Rocker 400
Magnetic Stirrer with Hot Plate (Digital) "Tarson" Model No. 6040
Desktop: 03 Laptop:02

### 31. Number of Students Receiving Financial Assistance from College, University, Government or other Agencies:

Scheme	2008-09	2009-10	2010-11	2011-12	2012-13	2013-14
Merit-Cum-Means Scholarship, Govt. of WB	01	01	03 (Rs.32400/-)	03 (Rs.32400/-)	-	02 (Rs.21600/-)
Student Aid Fund			01 (Rs.3650/-)	01 (Rs.1320/-)		
West Bengal Minority Scholarship	-	06	10	05	-	02
INSPIRE Scholarship, Govt. of India	-	-	04	-	03	09

### 32. Details on Student Enrichment Programmes (Special Lectures / Workshops / Seminar) with External Experts :

Programme	2010-2011	2011-2012	2012-2013	2013-2014	2014-2015
Seminar	National Seminar on 'Spectroscopy' in association with IACS Kolkata  '150 years Birth Anniversary celebration of Acharya P. C. Ray'	IYC-2011 'The Journey of Chemistry Through Ages – Yesterday Today Tomorrow'	-	-	-
Hands on Training	-	DBT sponsored Hands on Training 'Bio-mimetic syntheses'	DBT sponsored Hands on Training: a)Structure Elucidation by IR-Spectroscopy b)Food Adulteration	DBT sponsored Hands on Training 'Bio-applicability In Chemistry'	DBT sponsored Hands on Training 'Chemical Preludes in Biology'
Outreach Programme	-	Visit to Variable Energy Cyclotron Centre, BARC-Kolkata	-	-	Visit to Taki, WB to measure the pollution at Ichhamoti river belt

### 33. Teaching Methods Adopted to Improve Student Learning :

- ICT based teaching-learning process are adopted whenever required
- Seminars with PowerPoint presentations are conducted in the department related to topics inside the syllabus & advancing the knowledge (Please see Item no. in questionnaires- 32)
- Practical training is given for conceptual learning process
- Group discussions are encouraged
- Extension of lectures by experts (Please see Item no. in questionnaires- 32)



- Seminars by students are arranged
- Project work assigned to students (Please see Item no. in questionnaires- 32).
- Educational trips & excursions to industries are arranged to create interest among students & to give them exposure to the field of Industries (Please see Item no. in questionnaires- 32)

### 34. Participation in Institutional Social Responsibility (ISR) and Extension Activities:

- a. The National Service Scheme (NSS)
- b. Campus cleaning drive
- c. Women empowerment initiatives
- d. Gender sensitization program
- e. Consumer awareness program

### 35. SWOC Analysis and Future Plans:

<p>⇒ <i>Strength</i></p> <ul style="list-style-type: none"> <li>✓ Available well equipped laboratories for students</li> <li>✓ Instrumental facility for students</li> <li>✓ Departmental library</li> <li>✓ Separate research laboratories (organic, inorganic &amp; physical)</li> <li>✓ ICT based teaching-learning (e-content developed on topics related to chemistry)</li> <li>✓ Almost 100% success in university examinations and frequent university ranks</li> <li>✓ Aptitude towards research is being nourished in the students</li> <li>✓ Emergency fire exit</li> <li>✓ Extra Academic Hands-on-Training Programs</li> <li>✓ Recognized Ph.D. Centre</li> </ul>
<p>⇒ <i>Weakness</i></p> <ul style="list-style-type: none"> <li>➤ Crisis of Adequate Space</li> <li>➤ Lack of Adequate Supporting Staff</li> </ul>
<p>⇒ <i>Opportunities</i></p> <ul style="list-style-type: none"> <li>➤ Motivate students for pursuing higher studies in chemistry</li> <li>➤ Motivate students for main stream research from the very beginning</li> <li>➤ Awareness and counselling for weaker section of students for job opportunities after graduation</li> </ul>
<p>⇒ <i>Challenges</i></p> <ul style="list-style-type: none"> <li>✓ To train the students in excellent communication skills in chemistry/ allied fields</li> <li>✓ Mushrooming of private coaching centers is directly or indirectly threatening day to day class activity</li> <li>✓ Mushrooming of private Universities offering courses in diluted version.</li> </ul>
<p>⇒ <i>Future Plans</i></p> <ul style="list-style-type: none"> <li>❖ To start M.Sc. in chemistry</li> </ul>

## EVALUATIVE REPORT OF THE DEPARTMENT OF COMMERCE

1. **Name of the Department :** Commerce
2. **Year of Establishment :** 1971
3. **Names of Programmes / Courses offered :** UG: B.Com.(Honours in Accounting and Finance)
4. **Names of Interdisciplinary courses and the departments/units involved:** All students of this Department compulsorily attend Environmental Science classes, which are interdisciplinary in nature.
5. **Annual/semester/choice based credit system (programme wise):** B.Com. Honours : Annual Examination (Part I, II, & III) under the University of Calcutta
6. **Participation of the department in the courses offered by other departments/Institutions:**

Accounting and Finance Honours student take up Compulsory English, MIL as English/ Bengali/ Urdu as their compulsory language subjects.

7. **Courses in collaboration with other universities, industries, foreign and other institutions:**  
Nil
8. **Details of courses/programmes discontinued (if any) with reasons:** None
9. **Number of teaching posts:**

Name of the Post	Sanctioned	Filled
Professors	NIL	NIL
Associate Professor	4	2 (through CAS)
Assistant Professor		1

10. **Faculty profile with name, qualification, designation, specialization (D.Sc./D.Litt./Ph.D./M.Phil. etc. ) :**

Name	Qualification	Designation	Specialization	Experience	No. of Ph.D. guidance
Mr. Hareram Hazra	M.Com., FCMA, FCS	Associate Professor	Financial Management	31 Years	Nil
Dr. K.C.Sinha	M.Com., M.Phil. Ph.D.	Associate Professor	Financial management	17 Years	Nil
Mrs. Madhu Sarda	M.Com	Assistant Professor	Accounting and finance	7 Years	Nil
Mrs. C. Bhattacharjee	M.Com.	Approved P. T. T.	Accounting group of subjects	7 Years	Nil
Teachers transferred or retired or changed service between the period 1 <sup>st</sup> April 2007 to September 2015					
<i>Mr. S. C. Kar (Transferred)</i>	<i>M.Com, C.A.</i>	<i>Associate Professor</i>	<i>Accountancy</i>	<i>30 Years</i>	<i>Nil</i>
<i>Mr. A. Ghosh (Transferred)</i>	<i>M.Com.</i>	<i>Associate Professor</i>	<i>Accountancy</i>	<i>27 Years</i>	<i>Nil</i>
<i>Mr. A. Rout (Transferred)</i>	<i>M.Com.</i>	<i>Associate Professor</i>	<i>Accountancy</i>	<i>24 Years</i>	<i>Nil</i>

11. **List of senior visiting faculty:** None

12. Percentage of lectures delivered and practical classes handled (programme wise) by temporary faculty: 15% (For UG Course)

13. Student – Teacher Ratio (programme wise):

Course	Ratio
U. G. (1 <sup>st</sup> Year Honours)	15.7:1
U. G. (2 <sup>nd</sup> Year Honours)	15.7:1
U. G. (3 <sup>rd</sup> Year Honours)	15.7:1

14. Number of academic support staff (technical) and administrative staff, sanctioned and filled:

Nil

15. Qualifications of teaching faculty with D.Sc./D.Litt/Ph.D/M.Phil/P.G.:

Sl. No.	Name of Faculty	Qualifications
1	Mr. Hareram Hazra	M.Com. FCMA, FCS
2	Dr. Keshab Chandra Sinha	M.Com. M.Phil, Ph.D.
3	Ms. Madhu Sarda	M.Com.
4	Ms. Chandrani Bhattacharjee	M.Com.

16. Number of faculty with ongoing projects from (a) National, (b) International funding agencies and grants received: Nil

17. Departmental projects funded by DST-FIST; UGC, DBT, ICSSR, etc. And total grants received: Nil

18. Research Centre /facility recognized by the University: Nil

19. Publications: (List of publication per faculty from 2010-11 to 2014-15)

Name of the faculty	Number of papers published in Peer reviewed Journal	Number of publications listed in international Database	Monographs	Chapters in Books	Books edited	Books with ISBN	Citation index	SNIP	SJR	Impact factor	H index
Dr. Keshab Chandra Sinha	02	-	-	-	-	-	-	-	-	-	-

20. Areas of consultancy and income generated: None

21. Faculty as members in- (a) National committees (b) International Committees (c) Editorial Boards...

Hareram Hazra	(i) Fellow Member of The Institute of Cost Accountants of India (ii) Fellow Member of The Institute of Company Secretaries of India
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22. Student Projects:

- **Percentage of students who have done in-house projects including inter- departmental/ programme:**
  - (i) 100% of our students have to do a Project on Environmental Science compulsorily since it is a mandatory Course work in Part III Examination under the UG programme.
  - (ii) 100% of our students have to do a mandatory Honours paper of Project Work (100 Marks) which is included in the syllabus of B.Com.(Honours) Part-III Examination.
- **Percentage of students placed for projects in organizations outside the institution i.e. in Research laboratories/Industry/other agencies :** Nil

**23. Awards/Recognitions received by faculty and students: Nil**

**24. List of eminent academicians and scientists/visitors to the department:**

Mr. S K Bardhan, Deputy Director of Studies, ICAI, March, 2011.

**25. Seminars/Conferences/Workshops organized & the source of funding :** None

**26. Student profile Programme /Course wise :**

Name of the Course/Programme	Applications Received	Selected	Enrolled		
			M	F	%Passed
B.Com. (Honours)					
Entry Year- 2010	1230	50	35	15	95
Entry Year- 2011	1456	50	32	18	96
Entry Year- 2012	1337	55	35	20	100
Entry Year- 2013	1812	60	39	21	98
Entry Year- 2014	1627	61	36	25	100

**27. Diversity of Students:**

Name of the course	% of students from West Bengal	% of students from other States	% of students from abroad
B.Com.Honours-2010-11 batch	90%	10%	Nil
„ „ -2011-12	85%	15%	Nil
„ „ -2012-13	80%	20%	Nil
„ „ -2013-14	83%	17%	Nil
„ „ - 2014-15	82%	16%	2%

**28. How many students have cleared national and state competitive examinations such as NET, SLET, GATE, Civil services, Defence services, etc. :** Nil

**29. Student progression:**

Student Progression	Against % enrolled
UG to PG	60
PG to M.Phil.	-
PG to Ph.D.	-
Ph. D. To Post-Doctoral	-
Employed	-
. Campus Selection	-
.. Off the Campus recruitment	-
Entrepreneurship / Self-employment	-

**30. Details of Infrastructural facilities:**

- **Library** : Access to College Central Library only
- **Internet facilities for staff & students** : Available both in the Department Staff Room and General Staff Room in addition to the internet of College Library accessible to the students.
- **Class rooms with ICT facility** : Not available
- **Laboratories**: NA

**31. Number of students receiving financial assistance from college, university, government or other agencies:**

Scheme	2010-11	2011-12	2012-13	2013-14	2014-15
Merit-cum-means Scholarship	01 (Rs.10800/-)	01 (Rs.9000/-)	02 (Rs.18000/-)	-	-
CPE GRANT (SC/ST/OB C) NON Creamy Layer & Minority Girls	-	-	05 (Rs.22750/-)	-	-
Kanyashree Prkalpa K-2	-	-	-	04 (Rs.100000/-)	01 (Rs.100000/-)
Student Aid Fund	-	02 (Rs.1760/-)	07 (Rs.4940/-)	01 (Rs.1020/-)	01 (Rs.1020/-)

**32. Details on student's enrichment programmes (Special lectures /workshops / seminar) with external experts:** Special lectures on career counselling were conducted in collaboration with The Institute of Chartered Accountants of India and The Institute of Company Secretaries of India, March, 2012.

**33. Teaching methods adopted to improve student learning:** Interactive mode is adopted

**34. Participation in Institutional Social Responsibility (ISR) and Extension activities:**

- The National Service Scheme (NSS)
- Campus cleaning drive
- Women empowerment initiatives
- Gender sensitization program

**35. SWOC analysis of the department and Future plans:****Strengths:**

- The department gets *talented students* every year at the time of admission.
- Appreciable Departmental Result in the University Exams

**Weaknesses:**

- Absence of *well equipped Computer Laboratory*
- The department has *no support staff* to perform various departmental activities.
- The department is unable to perform its academic activities efficiently *due to lack of some equipment* like Xerox machine, LCD projector etc.

**Opportunities:**

The department has enough scope to expand its academic area provided adequate infrastructural facilities in terms of number of faculties, space, library, equipment etc.

**Challenges:**

The student-teacher ratio is very high causing disturbance in taking proper care and attention to the individual students.

## EVALUATIVE REPORT OF THE DEPARTMENT OF ECONOMICS

1. **Name of the Department** : Economics
2. **Year of Establishment** : 1926
3. **Names of Programmes/Courses offered:** UG: B.Sc. Honours
4. **Names of Interdisciplinary courses and the departments/units involved:** All students of this Department compulsorily attend Environmental Science classes, which are interdisciplinary in nature.
5. **Annual/semester/choice based credit system (programme wise):**  
B.SC. Honours: Annual Examination (Part I, II, & III) under the University of Calcutta
6. **Participation of the department in the courses offered by other departments/ Institutions:** Our Department offers Economics as General subject for the students of the Department of Political Science, History, English, Philosophy, Sociology and Statistics. In addition, the students of the department can choose MIL as Bengali/English/Urdu/Arabic and they can also opt any two subjects from Political Science, Mathematics and Statistics as their General course subjects.
7. **Courses in collaboration with other universities, industries, foreign institutions, other institutions, etc.:** None
8. **Details of courses/programmes discontinued (if any) with reasons:** None
9. **Number of Teaching posts:**

Name of the Post	Sanctioned	Filled
Professors	01	01
Associate Professors	04	03 (through CAS)
Assistant Professors		01

### 10. Faculty profile with name, qualification, designation, specialization, D.Sc./D.Litt./Ph.D./M.Phil.etc.), Data includes PTT/ Guest faculty:

Name	Qualification	Designation	Specialization	No. of years of experience	No. of Ph.D. Students guided for the last 4 years
Santanu Ghosh	MA, M.Phil., Ph.D.	Professor	International Economics and Public	20 years	3+1 (Continuing)
Ujjal Baran Roy	MA	Associate Professor	Monetary Economics and Banking	32 years	Nil
Ujjwal Chattopadhyay	MA, M.Phil.	Associate Professor	Macroeconomics and Public Economics	28 years	Nil
Avijit Mandal	M.Sc., MHD	Assistant Professor	Statistics and Econometrics	9 years	Nil
Joyeeta Saha	M.A., M.Phil.	Assistant Professor	Econometrics	6 years	Nil
Teachers Transferred or Retired between 1 <sup>st</sup> April 2007 to September 2015					
Rongili Biswas (Transferred)	M.A., M.Phil., Ph.D.	Assistant Professor	Political Economy and Public Finance	18 years	Nil
Aurobindo Pal (Transferred)	M.A., M.Phil.	Associate Professor	Advance Economic Theory	25 year	Nil

Name	Qualification	Designation	Specialization	No. of years of experience	No. of Ph.D. Students guided for the last 4 years
Nandita Basak (Retired)	M.A., Ph.D.	Associate Professor	Macroeconomic Theory	30 years	Nil

11. List of senior visiting faculty: None

12. Percentage of lectures delivered and practical classes handled (programme wise) by temporary faculty: Nil

13. Student-Teacher Ratio (programme wise) (2014-15)

Course	Class	Ratio
UG	1 <sup>st</sup> Year	Honours: 10:1, Gen: 2:1
	2 <sup>nd</sup> Year	Honours: 8:1, Gen: 2:1
	3 <sup>rd</sup> Year	Honours: 6:1

14. Number of academic support staff (technical) and administrative staff; sanctioned and filled: None

15. Qualifications of teaching faculty with DSc/D.Litt/Ph.D/Mphil/PG.: Present permanent and Part Time/Guest faculty shown in table below:

Sl No.	Name of Faculty	Qualifications
1	Santanu Ghosh	MA, Mphil, PhD
2	Ujjal Baran Roy	MA
3	Ujjwal Chattopadhyay	MA, Mphil
4	Rongili Biswas	M.A., Mphil, PhD
5	Avijit Mandal	MSc., MHD
6	Joyeeta Saha	MA, Mphil

16. Number of faculty with ongoing projects from a) National, b) International funding agencies and grants received :

Name of Faculty	Title of Project	Funding Agency	Grant Received	Period
Dr. Rongili Biswas	Nineteenth Century British Labour Movement	UGC	130000/-	2012-13

17. Departmental projects funded by DST – FIST; UGC, DBT, ICSSR, etc.:

Departmental Project funded by UGC-India, Period 2012-13, PI: Dr. Rongili Biswas

18. Research Centre /facilities recognized by University:

Prof. Santanu Ghosh is recognised as a Ph.D. supervisor by the University of Calcutta and Gokhale Institute of Politics and Economics, Kolkata.

**19. Publication:** (List of publication per faculty from 2010-11 to 2014-15)

Name of the faculty	Number of papers published in Peer reviewed Journal	Number of publications listed in international Database	Monographs	Chapters in Books	Books edited	Books with ISBN	Citation index	SNIP	SJR	Impact factor	H index
Santanu Ghosh	-	-		1	3	-	-	-	-	-	-
Ujjwal Chattopadhyay	-	-	-		-	6	-	-	-	-	-
Avijit Mandal	2	2	-		-	-	-	-	-	-	-
Jayeeta Saha	2	-	-		-	-	-	-	-	-	-
Rongili Biswas	4	4	-	1	-	-	-	-	-	-	-

**20. Areas of consultancy and income generated:**

Dr. Rongili Biswas, Participated as consultant in a 12<sup>th</sup> Finance Commission Meet at IIM, Kolkata.

**21. Faculty as members in****a) National committees b) International Committees c) Editorial Boards ...**

Prof. Santanu Ghosh	Board of Editors: <ul style="list-style-type: none"> <li>• Chief Editor, Social Science Spectrum.</li> <li>• Associate Editor, Indian Journal of Regional Science.</li> <li>• Member, Editorial Board, Artha Beekshan.</li> </ul>
Prof. Ujjwal Chattopadhyay	Board of Editors: Associate Editor.MAC Academic Journal of Languages and Social Sciences.

**22. Student projects:**

- **Percentage of students who have done in-house projects including inter-departmental/ programme:**
  - i) 100% students of the Undergraduate programme do a project on Environmental Science as mandatory Course work
  - ii) Dissertations: 100% - 3<sup>rd</sup> Year Project.
- **Percentage of students placed for projects in organizations outside the institution:**  
Nil

**23. Awards/Recognitions received by faculty and students:**

*By Faculty Members:*

- **Prof. Santanu Ghosh** Received European Union Funded “Erasmus Mundus Post Doc Scholarship in University of Milan (Italy). Duration is from October 2015 to July 2016.
- **Prof. Ujjwal Chattopadhyay**
  - Sudrak Shreshtha Natakhar – 2012



- Rangapat Mohit Sriti Sammman – 2013
- Delivered Lecture in National School of Drama, Delhi – 2014
- **Dr. Rongili Biswas**
  - Bangla Academy Santi Saha Smarak Puroskar – 2015

**By Students:**

- **Anubhab Saha and Agniva Dasgupta: Winner** in Confluence X, 2014, Organized by St. Xavier's College as Paper Presenter. Topic: "Capital Flows and Balance of Payments Crisis".
- **Anubhab Saha and Agniva Dasgupta: 3<sup>rd</sup>** in Confluence X, 2015, Organized by St. Xavier's College as Paper Presenter. Topic: "Global Dimensions of Financial Crisis"
- **Jit Mitra and Sagnik Ghosh: 3<sup>rd</sup>** in Confluence X, 2015, Organized by St. Xavier's College as Paper Presenter. Topic: "Child Labour – Causes and Remedies".
- **Chayan Poddar and Ankita Ghosh: 3<sup>rd</sup>** in Confluence X, 2015, Organized by St. Xavier's College as Paper Presenter. Topic: "Agriculture and Inclusive Growth".

**24. List of eminent academicians and scientists/visitors to the department:**

Sr. No.	Name of the Event	Name of eminent academicians and scientists/visitors to the department	Date(s)
1.	32 <sup>nd</sup> Annual Conference of the Bengal Economic Association hosted by Department of Economics, Maulana Azad College, Kolkata	Prof. Mihir Rakshit, Director, Monetary Research Unit, ICRA Prof. Ajitava Roychoudhuri, Jadavpur University Prof. Dipankar Condo, Formerly of the ISI Kolkata Prof. V R Panchmukhi, Managing Editor, Indian Economic Journal Prof. Srijit Misra, IGIDR, Mumbai Prof. A. Kundu, CSRD, New Delhi.	18 <sup>th</sup> -19 <sup>th</sup> February, 2012
2.	Departmental Seminar: Prof. Ambar Nath Ghosh, Jadavpur University Delivered an Extension Lecture on " <b>Long Run Macroeconomics</b> ".	Prof. Ambar Nath Ghosh, Jadavpur University	22 <sup>nd</sup> March, 2011
3.	Departmental Seminar: Prof. Sugata Marjit delivered a special Lecture on " <b>Poverty of Economics and Economics of Poverty</b> ".	Prof. Sugata Marjit Director, Centre For Studies in Social Sciences, Kolkata (Now Vice Chancellor, University of Calcutta)	29 <sup>th</sup> January, 2014

**25. Seminars/Conferences/Workshops organized & the source of funding****a) National :**

Topic	Speaker	Funding Agency	Date
32 <sup>nd</sup> Annual Conference of the Bengal Economic Association hosted by Department of Economics, Maulana Azad College, Kolkata  Major Themes: Current Indian Macroeconomic Scenario; Theory and Practice of Development Economics in India	Prof. Mihir Rakshit, Director, Monetary Research Unit, ICRA  Prof. Ajitava Roychoudhuri, Jadavpur University  Prof. Dipankar Condo, Formerly of the ISI Kolkata  Prof. V R Panchmukhi, Managing Editor, Indian Economic Journal  Prof. Srijit Misra, IGIDR, Mumbai Prof. A. Kundu, CSRD, New Delhi.	UGC	2011-12 18 <sup>th</sup> -19 <sup>th</sup> February, 2012

**b) International: Nil****26. Student profile programme/course wise:**

Name of the Course/ programme	Applications received	Selected	Enrolled			
			M	F	Minorities	% Passed
B.SC. Hons (entry year 2010)	576	37	19	18	3	100%
B.SC. Hons (entry year 2011)	330	47	18	29	9	96%
B.SC. Hons (entry year 2012)	275	35	21	14	6	96%
B.SC. Hons (entry year 2013)	347	40	27	13	5	86%
B.SC. Hons (entry year 2014)	429	57	35	22	7	96%

**27. Diversity of Students:**

Name of the Course	% of students from the same state	% of students from other States	% of students from abroad
B.Sc. Honours 2010-11 batch	100%	NIL	NIL
B.Sc. Honours 2011-12batch	100%	NIL	NIL
B.Sc. Honours 2012-13 batch	100%	NIL	NIL
B.Sc. Honours 2013-14 batch	100%	NIL	NIL
B.Sc. Honours 2014-15 batch	100%	NIL	NIL

**28. How many students have cleared national and state competitive examinations such as NET, SLET, GATE, Civil services, Defence services, etc.:**

Seven candidates have cleared NET over the last five years

**29. Student progression**

Student progression	Against % enrolled
UG to PG	70 to 75% of the students progressed to PG course in CU, JU, RBU and WBSU. Jawaharlal Nehru University Delhi School of Economics Madras School of Economics Gokhale Institute of Politics and Economics
PG to M.Phil.	20%
PG to Ph.D.	10%
Ph.D. to Post-Doctoral	---
<b>Employed</b>	NA
Campus selection	40%
Other than campus recruitment	40%
Entrepreneurship/Self-employment	--

**30. Details of Infrastructural facilities:**

- **Library:** Seminar Library with approximately 200 numbers of books.
- **Internet facilities for Staff & Students:** Internet is available for the faculty in the General Staff Room. Students access the internet from the College Library.
- **Class rooms with ICT facility :** Nil
- **Laboratories :** NA

**31. Number of students receiving financial assistance from college, university, government or other agencies:** None**32. Details on student enrichment programmes (special lectures/workshops/seminar) with external experts :**➤ **Departmental seminars:**

Sr. No.	Name of the Event	Date(s)	Collaborator	Sponsoring Agency
1.	National Seminar on Maulana Azad	24 <sup>th</sup> – 25 <sup>th</sup> March, 2012	Department of Political Science	UGC
2.	Departmental Seminar: Prof. Ambar Nath Ghosh, Jadavpur University Delivered an Extension Lecture on “ <b>Long Run Macroeconomics</b> ”.	22 <sup>nd</sup> March, 2011	NA	College
3.	Departmental Seminar: Prof. Sugata Marjit delivered a special Lecture on “ <b>Poverty of Economics and Economics of Poverty</b> ”.	29 <sup>th</sup> January, 2014	NA	College

- **Project Work:** Dissertations: 100% - 3<sup>rd</sup> Year Project, evaluated by external experts.
- **College Excursion:** Study Tour in Amarkantak, Madhya Pradesh conducted by the Department of Economics in 2013.
- **Conference:**

Sr. No.	Name of the Event	Date(s)	Collaborator	Sponsoring Agency
1.	32 <sup>nd</sup> Annual Conference of the Bengal Economic Association	18 <sup>th</sup> -19 <sup>th</sup> February, 2012	Bengal Economic Association	UGC

- Students participated in seminars and symposia at Department of Economics, Jadavpur University and Department of Economics, St. Xavier's College, Kolkata.

**33. Teaching methods adopted to improve student learning:** Interactive mode is adopted.

**34. Participation in Institutional Social Responsibility (ISR) and Extension activities:** Students of the department are active in :

- i) The National Service Scheme (NSS)
- ii) Campus cleaning drive
- iii) Women empowerment initiatives
- iv) Gender sensitization program

**35. SWOC analysis of the department and Future plans:**

<p><b>Strength:</b>            Good Student quality            Good result            Student coming with sufficient exposure            Friendly relationship between teacher and student            Resourceful departmental seminar library</p>	<p><b>Weakness:</b>            No Separate departmental /faculty office/room            No computer facility exclusively for the department.            Lack of infrastructural facility</p>
<p><b>Opportunities:</b>            Students get good career opportunities</p>	<p><b>Challenges:</b>            Dropout due to shift to engineering and professional courses.</p>
<p><b>Future Plans:</b>            Introduction of Interdisciplinary Post Graduate course.            Collaborative Research Projects with other Colleges and Universities.</p>	

## EVALUATIVE REPORT OF THE POST GRADUATE DEPARTMENT OF ENGLISH

1. **Name of the Department : ENGLISH**
2. **Year of Establishment: 1926**
3. **Names of Programmes/Courses offered (UG, PG, M.Phil.,Ph.D., Integrated Masters; Integrated Ph.D.,etc.) :**
  - **UG: B.A. English (Honours and General)**
  - **PG: M.A.in ENGLISH**
4. **Names of Interdisciplinary courses and the departments/units involved:** All UG students of this Department compulsorily attend Environmental Science classes, which are interdisciplinary in nature.
5. **Annual/semester/choice based credit system (programme wise):**

Programme	Annual	Semester	Credit System
UG	1+1+1	No	No
PG	1+1+1+1	CBCS (New)	No

6. **Participation of the department in the courses offered by other departments/Institutions:**
  - (i) Students of B.A. Honours in English opt for Compulsory, Bengali/English/Urdu as Modern Indian Language, Urdu, Philosophy, Political Science, Persian, Arabic, Economics, Bengali and Sociology as their auxiliary subjects in General Course during the 1<sup>st</sup> and 2<sup>nd</sup> year.
  - (ii) English as a General subject is opted by the Students of the B.A. Honours course in Urdu, Philosophy, Political Science, Sanskrit, Persian, Arabic, Bengali and Sociology during their 1<sup>st</sup> and 2<sup>nd</sup> year study.
7. **Courses in collaboration with other universities, industries, foreign institutions etc.:**  
A memorandum of Understanding is there for course development, training and testing of ATCOs in English Language Proficiency with Airport Authority of India.
8. **Details of courses/programmes discontinued (if any) with reasons:** None
9. **Number of Teaching posts:**

Name of the post	Sanctioned	Filled
Professor	01	0
Associate Professor	06	03 (through CAS)
Assistant Professor		02

10. **Faculty profile with name, qualification, designation, specialization, D.Sc./D.Litt./Ph.D./M.Phil.etc.,)**

**Data includes PTT/ Guest faculty:**

Name	Qualification	Designation	Specialization	No. of years of experience	No. of Ph.D. Students guided for the last 4 years
Bhawani Datta	M. A.	Associate Professor	American Literature	27 Yrs.	0

Name	Qualification	Designation	Specialization	No. of years of experience	No. of Ph.D. Students guided for the last 4 years
Sisir Kumar Chatterjee	M. A.; CTE, DTE; Ph. D.	Associate Professor	British Poetry; Linguistics & Phonetics	29 Yrs.	0
Parimal Bhattacharya	M.A.	Associate Professor	Post colonial Studies	22 Yrs.	0
Anamitra Chatterjee	M. A. ; M.Phil	Assistant Professor	Shakespeare Studies	06 Yrs.	0
Pritha Chakraborty	M. A. ; M.Phil	Assistant Professor	American Literature	8.5 Yrs	0
Madhumita Chanda	M.A. Ph.D.	Part Time Teacher	Translation Studies	07 Yrs.	0
Amitava Gupta	M.A.	Part Time Teacher	Poetry & drama	38 Yrs.	05
<i>Teachers Transferred Or Retired Between The Period 1<sup>st</sup> April 2010 To September 2015</i>					
Amitava Gupta (Retired)	M. A.	Associate Professor	British & Indian Poetry	33 Yrs	05
Nikunja Behari Routh (Retired in 2013)	M. A. Ph. D.	Associate Professor	American Literature	25 Yrs	0
Namita Chakrabarti (Retired in Sep. 2014)	M. A.	Associate Professor	Contemporary English Literature	33 Yrs	0
Deba Prasad Banerjee (Transferred in 2013)	M. A.; M. Phil.	Associate Professor	Modern Fiction	26 Yrs.	0
Kallol Roy (Transferred in 2015)	M. A.; RTP; (Pursuing Ph.D.)	Assistant Professor	Critical Theory; Visual Art	06 Yrs.	0
Subhadeep Paul (Left WBES)	M. A., M. Phil; Ph. D.	Assistant Professor	Postcolonial Studies; Indian Literature	06 Yrs.	0

#### 11. List of senior visiting faculty:

Sl. No.	Name	Designation & Affiliation	Qualification	Specialisation	Years of Experience
1	Prof. Shanta Mahalanobis	Professor (WBSES) (Retd.)	M. A. (Calcutta University); M. A. (Cambridge University) Ph.D	Modern Fiction	57
2	Prof. Pralay Kumar Deb	Professor (Retd. From Kalyani University)	M. A.; Ph.D	Modern Literary Criticism	47
3	Prof. Debiprasad Bhattacharya	Professor (Retd. From Kalyani University)	M. A.; Ph.D	Victorian Fiction	44
4	Prof. Tapati Gupta	Professor (Retd. From	M. A.; Ph.D	British Drama	42

Sl. No.	Name	Designation & Affiliation	Qualification	Specialisation	Years of Experience
		Calcutta University)			
5	Prof. Niladri Ranjan Chatterjee	Professor & Head (Kalyani University)	M. A.; Ph.D	Gender Studies	18
6	Dr.Chhanda Chakrabarty	Associate Professor (Rtd. College Teacher)	M. A.; Ph.D	Victorian Literature	40
7	Madhumita Majumdar	Assistant Professor (Rtd. College Teacher)	M. A.	Gender Studies & Victorian Literature	12
8	Namita Chakrabarti	Associate Professor (Retd. Govt. College Teacher)	M. A.	Contemporary English Literature	35
9	Debaprasad Banerjee	Associate Professor (WBES)	M.A, M. Phil	Modern Fiction	28

**12. Percentage of lectures delivered and practical classes handled (programme wise) by temporary faculty:**

Programme	Temporary Faculty	% of Classes Taken
UG	Part Time Teachers	15%
PG	Guest Teachers	33%

**13. Student-Teacher Ratio (programme wise) (academic session 2014-15)**

Course	Year	Ratio
UG	1 <sup>st</sup> Year	Honours: 7.5:1, Gen: 10:1
	2 <sup>nd</sup> Year	Honours: 7.5:1, Gen: 10:1
	3 <sup>rd</sup> Year	Honours: 7.5:1
PG	-	5:1
	-	5:1

**14. Number of academic support staff (technical) and administrative staff; sanctioned and filled: Nil**

**15. Qualifications of teaching faculty with DSc/D.Litt/Ph.D/Mphil/PG.: Present permanent and Part Time/Guest faculty shown in table below: Please refer to No. 10.**

Sl. No.	Name of Faculty	Qualifications
1	Bhawani Datta	M. A.
2	Sisir Kumar Chatterjee	M. A.; CTE, DTE; Ph. D.
3	Parimal Bhattacharya	M.A.
4	Anamitra Chatterjee	M. A. ; M.Phil
5	Madhumita Chanda	M.A. Ph.D.
6	Amitava Gupta	M.A.

**16. Number of faculty with ongoing projects from a) National, b) International funding agencies and grants received :**

Name of Faculty	Funding Agency	2010-11	2011-12	2012-13	2013-14	2014-15
Parimal Bhattacharya	UGC	“Narrative Strategies and Metatextuality of Bengal District Gazetteers” – (vide UGC Letter No. F. PHW-012/09-10(ERO) dt. 07/09/09), Sanctioned: Rs.150,000/-	Completed	-	-	-
D.P. Banerjee		“Conrad: Cultural crisis in his fiction Bishnu Dey” – (vide UGC Letter No. F. PHW-076/09-10(ERO) dt. 07/09/09), Duration: Two Years, Sanctioned amount Rs.150,000/-	Completed			

**17. Departmental projects funded by DST – FIST; UGC, DBT, ICSSR, etc.:**

Year of Report (Last 4 Years)	Funding Agency	Scheme	Grant Amount	Details
2011-12	UGC	CPE	Rs. 2.01 Lakh	Translation Project: School of Languages Translation Project: Bishnu Dey and Jayanta Mahapatra; Completed. Two Books have been published. Project on Bishnu Dey has been published separately.
2010-14	UGC	CPE	Rs. 5 Lakh	‘Development Grant’/UGC Grant in Aid/UGC-CPE grant. Books worth Rs. <b>5 lakh</b> for the undergraduate and post- graduate courses.

**18. Research Centre /facilities recognized by University: Nil**

**19. Publications:** (List of publication per faculty from 2010-11 to 2014-15)

Name of the faculty	Number of papers published in Peer reviewed Journal	Number of publications listed in international Database	Monographs	Chapters in Books	Books edited	Books with ISBN	Citation index	SNIP	SJR	Impact factor	H index
Sisir Kumar Chatterjee	03	-	-	02	-	01	-	-	-	-	-
Parimal Bhattacharya	06	-	-	-	-	05	-	--	-	-	-
Anamitra Chatterjee	02	-	-	-	-	-	-	-	-	-	-
Subhodeep Paul	11	-	-	04	-	-	-	-	-	-	-
Kallol Roy	02	-	-	-	-	-	-	-	-	-	-
Madhumita Chanda (PTT)	02	-	-	02	-	02	-	-	-	-	-



**20. Areas of consultancy and income generated:** In 2011, Parimal Bhattacharya undertook a field survey and wrote an assessment report on Alternative Education Programme being conducted in Mayurbhanj district, Odisha by the non-government organization, Sikshasandhan, Bhubaneswar 754258, in collaboration with Welthungerhilfe, Germany. No income generated

**21. Faculty as members in a) National committees b) International Committees c) Editorial Boards ...**

Parimal Bhattacharya	<i>Member, National Awards Advisory Committee, Sahitya Academy, New Delhi</i>
	Editorial Board Member, International Journal of Integrated Research and Development, ISSN: 2278-8670.
Dr. Sisir Kumar Chatterjee	Editorial Board Member, <i>Appropriations</i> , Journal of the Department of English, Bankura Christian College, Bankura. ISSN: 0975-1521.

**22. Student projects:**

- **Percentage of students who have done in-house projects including inter-departmental/ programme:** 100% students of the Undergraduate programme do a project on Environmental Science as mandatory Course work
- **Percentage of students placed for projects in organizations outside the institution i.e. in Research laboratories/Industry/ other agencies:** Nil

**23. Awards/Recognitions received by faculty and students:**

- Anuja Halder was Runner Up in the Womens' inter-college Badminton Championship(2010)- Played in the Calcutta University Team in the All India competition
- Melisa Ali played for Calcutta University in Basketball (2010).
- Intra-University quiz and extempore competitions won by Fuzail Ahmed (2012-13).

**24. List of eminent academicians and scientists/visitors to the department:**

Sl. No.	Name Of Eminent Academicians & Scientists/Visitors	Year	Purpose	Activities
1	Prof. Jayanta Mahapatra (Academy Award Winning Poet)	2010-11	Author meet	Workshop
2	Prof. Harish Trivedi (DU)	2010-11	Author meet	Workshop
3	William Radice (Oxford Univ)	2010-11	Indo-British Scholar Association meet	Workshop
4	Prof. Tapan Roychoudhury (Oxford Univ)	2010-11	Indo-British Scholar Association meet	Workshop
5	Prof. Supriya Choudhury (JU)	2011-12	Talk on Post-Mordernism	Talk, in collaboration with English study Centre
6	Prof. Abhijit Sen (Visva Bharati)	2012-13	Talk on Play houses of England	Talk, in collaboration with English study Centre
7	Mr. Anjan Dutta (Film & Drama)	2013-14	Talk on Brecht	Talk
8	Manoj Murali Nayar (Musician)	2013-14	On <i>Red Oleander</i> of Tagore	Interactive Demonstration

**25. Seminars/Conferences/Workshops organized & the source of funding:**• **National :**

Topic	Speaker	Funding Agency	Date
Cross cultural Perspective: Indian Writing in English	Prof. Harish Trivedi	UGC, vide-CW-125/09-10 (ERO)	2011
Swami Vivekananda	Swami Suparnanda, Prof. Ashoke Vishwanathan	UGC, vide-CW-200/10-11 (ERO) dated 22/03/2011	2013
Postmodernism	Prof. Supriya Roychoudhury	UGC-CPE	2014
Bertolt Brecht	Prof. Anjan Dutta	UGC-CPE	2014

• **International: NIL****26. Student profile programme/course wise:**

Name of the Course/ programme (refer to question no. 4)	Applications received	Selected	Enrolled			
			M	F	Minorities	% Passed
B. A. Hons (entry year2010)	900	40	10	3	6	60
B. A. Hons (entry year2011)	950	45	20	2	8	55
B. A. Hons (entry year2012)	1150	50	15	3	1	65
B. A. Hons (entry year 2013)	1270	50	15	3	12	60
B. A. Hons (entry year 2014)	1250	50	18	32	9	70
M.A. (entry year 2010)	560	20	05	15	2	100
M.A. (entry year 2011)	550	20	06	14	4	100
M.A. (entry year 2012)	480	20	4	16		100
M.A. (entry year 2013)	520	20	5	15		100
M.A. (entry year 2014)	530	20	5	15		100

**27. Diversity of Students:**

Name of the Course	% of students from the same State state	% of students from other States	% of students from abroad
B.A. Honours 2010-11 batch	100%	Nil	Nil
M.A. Honours 2010-11 batch	100%	Nil	Nil
B.A. Honours 2011-12batch	100%	Nil	Nil
M.A. Honours 2011-12 batch	100%	Nil	Nil
B.A. Honours 2012-13 batch	100%	Nil	Nil
M.A. Honours 2012-13 batch	100%	Nil	Nil
B.A. Honours 2013-14 batch	100%	Nil	Nil
M.A. Honours 2013-14 batch	100%	Nil	Nil
B.A. Honours 2014-15 batch	100%	Nil	Nil
M.A. Honours 2010-11 batch	100%	Nil	Nil

**28. How many students have cleared national and state competitive examinations such as NET, SLET, GATE, Civil services, Defence services, etc.:**

NET:	2009-10 (UG)	2012-13 (PG)	2014-15 (PG)
	1)Pratik Mitra 2)Neli Mukherjee 3)Tanmoy Bhattacharya	1)Dipanjoy Mitra 2)Huzaifar Siddiqui	1)Poulomi Shirma 2)Swatilekha Maity 3)Sk. Md. Hussain

**29. Student progression:**

Student progression	Against % enrolled
UG to PG	30%
PG to M.Phil.	10
PG to Ph.D.	5
Ph.D. to Post-Doctoral	10
<b>Employed</b>	-
• Campus selection	-
• Other than campus recruitment	25
Entrepreneurship/Self-employment	-

**30. Details of Infrastructural facilities:**

- **Library:** Seminar library with more than 200 books
- **Internet facilities for Staff & Students**  
Internet is available for the faculty in the Department Staff Room as well as the General Staff Room.  
The students access the internet from the College Library.  
In order to use the e-library PG students access the internet from the PG staff room of the Department.
- **Class rooms with ICT facility:** One.
- **Laboratories :**  
One Language Laboratory with facilities like, Laptop, Television with Film Screening is available.

**31. Number of students receiving financial assistance from college, university, government or other agencies:**

Scheme	2010-11	2011-12	2012-13	2013-14	2014-15
Merit-cum-means Scholarship	-	-	01 (Rs.9000/-)	02 (Rs.18000/-)	05 (Rs.45000/-)
CPE GRANT (SC/ST/OBC) Non Creamy Layer & Minority Girls	-	--	02 (Rs.9100/-)	-	-
Kanyashree Prkalpa K-2	-	-	-	03 (Rs.75000/-)	-
Sitaram Jindal Scholarship	-	01 (Rs.4200/-)	-	-	-

**32. Details on student enrichment programmes (special lectures/workshops/ seminar) with external experts:** As detailed in Item-25

**33. Teaching methods adopted to improve student learning:** Interactive modes adopted

**34. Participation in Institutional Social Responsibility (ISR) and Extension activities:** Students of the department are active in :

- The National Service Scheme (NSS)
- Campus cleaning drive

- iii) Women empowerment initiatives
- iv) Gender sensitization program
- v) Iftar

### 35. SWOC analysis of the department and Future plans:

#### Strength:

- The department has a viable physical infrastructure and academic resources that include audio-visual facilities, computers, a well-stocked seminar library with books, CDs etc. And a departmental journal where students hone their intellectual skills.
- Being a post-graduate department, we have noted academicians in the Board of Studies who guide us with their wise and erudite counsel.
- Experienced teaching faculty with wide exposure to institutions affiliated to different universities, by virtue of the transferable service, is the other source of strength.
- Language Laboratory for giving exposure to the students in both British & American English.
- Being part of a premier government-run institution located in the central part of Kolkata, the department has easy access to the academic and intellectual fraternity of the city. This advantage is exploited to its utmost by a two-pronged strategy: one, frequent seminars and workshops are held where eminent speakers from different fields are invited; two, the services of highly experienced guest teachers and other resource persons are utilized on a regular basis, especially to run the postgraduate courses.
- In order to combat the weaknesses of the department, the faculty members are constantly on the lookout for roping in noted academicians and specialists in various fields of English Literature Studies and for persuading them to render their valuable service. The senior visiting faculty members and the members of the Post-Graduate Board of Studies also help the department to a remarkable extent in this respect.

#### Weakness:

- A major weakness is inadequate faculty strength, as a number of sanctioned posts are vacant. Moreover, the transferable service of the teachers also makes difficult the execution of long-term planning and vision.

#### Opportunity:

- This institution has a unique position in terms of linguistic multiplicity, because as many as six languages are taught here. This opens up scope for inter-linguistic exchanges and further research in allied fields.

#### Challenges:

- Being part of a government-run institution, the department lacks autonomy at different levels that is conducive for the growth of a post-graduate department running an autonomous course. The contrary pulls of bureaucracy on the one hand and the university authorities on the other sometimes make it difficult for the department to meet the emerging demands and challenges of English teaching. A case in point is the discontinuance of French language teaching due to the paucity of funds.

#### Future Plans:

- Starting a separate post graduate course in Linguistics and ELT
- Starting M.Phil. Course & Ph.D. Program.
- Entering into Cultural Exchange programs with different colleges & universities abroad

## EVALUATIVE REPORT OF THE DEPARTMENT OF HISTORY

1. **Name of the Department:** History
2. **Year of Establishment** 1926
3. **Names of Programmes/Courses offered (UG, PG, M.Phil., Ph.D., Integrated Masters; Integrated Ph.D., etc.) :** UG: History (Honours) & History as General
4. **Names of the interdisciplinary courses in which the department is involved:**  
All students of this Department compulsorily attend Environmental Science classes, which is interdisciplinary in nature.
5. **Annual /Semester/Choice based credit system (Programme wise):**

<i>Programme</i>	<i>Annual</i>	<i>Semester</i>	<i>Credit System</i>
B.A. Honours in History (1+1+1 Years)	1+1+1 Examination System of the University of Calcutta	No	No

### 6. Participation of the department in courses offered by other Departments:

- (i) Students of B.A. Honours in History opt for Compulsory English, Bengali/English/Urdu as Modern Indian Language, Urdu, English, Philosophy, Political Science, Persian, Arabic, Economics, Bengali and Sociology as their auxiliary subjects in General Course during the 1<sup>st</sup> and 2<sup>nd</sup> year.
- (ii) History as a General subject is opted by the Students of the B.A. Honours course in Urdu, English, Philosophy, Political Science, Sanskrit, Persian, Arabic, Bengali and Sociology during their 1<sup>st</sup> and 2<sup>nd</sup> year study.

7. **Courses in collaboration with other universities, industries, foreign institutions:** None
8. **Details of programmes /courses discontinued(if any) with reasons:** None
9. **Number of teaching posts:**

<i>Posts</i>	<i>Sanctioned</i>	<i>Filled</i>
Professors	Nil	Nil
Associate Professors	5	1 (by CAS)
Assistant Professors		2

### 10. Faculty profile with name, qualification, designation, specialization (D.Sc./D.Litt./Ph.D./M.Phil etc.):

Name	Qualification	Designation	Specialization	Years of Experience	No. of Ph.D. Students guided for last 4 years
Paramita Maharatna (Chakrabarty)	M.Phil.	Associate Professor	18 <sup>th</sup> Century in Indian History	16	Nil
Sucharita Ghosh Sengupta	M.A., Ph.D.	Assistant Professor	Gender Studies	14	Nil
Dhananjoy Bhattacharjee	M.Phil.	Assistant Professor	Modern Indian History	14	Nil
<b>Teachers transferred or retired between the period 1<sup>st</sup> April 2010 to September 2015</b>					
Dr Narayan Chandra Saha	M.A, Ph.D	Associate – Professor	Modern India	30	Nil

Dr Aparajita Sengupta	M.A,M.Phil., Ph.D.	Associate – Professor	Modern India	27	Nil
Sri Prabal Sengupta	M.A. M.Phil. B.Ed	Associate Professor	Medieval India	30	Nil
Smt. Ananya Roy Chowdhury (Mitra)	M.A	Assistant Professor	U.S.A	14	Nil
Sumati Majumder	M.Phil	Associate – Professor	Modern Indian History	29	Nil
Sri Anomitra Das	M.Phil	Associate – Professor	Economic History of India & Socio Cultural history of Bengal	17	Nil
Sk Ali Abbas Mamud	M.A	Assistant Professor	Modern Indian History	6 months	Nil
Smt. Nandini Saila Dasgupta	M.Phil	Assistant Professor	Modern Indian history	14	Nil

**11. List of senior visiting faculty:** None

**12. Percentage of Lectures delivered and practical classes handled (Programme wise) by the temporary faculty:** presently there is no temporary faculty in the department

**13. Student-Teacher Ratio (programme wise): (Current Year, 2014-15):**

Course	Honours	Ratio	General	Ratio
UG	First Year	8:1	First Year	45:1
	Second Year	5:1	Second Year	41:1
	Third Year	4:1	Third Year	no General Stream in 3 <sup>rd</sup> year

**14. Number of academic support staff (technical) and administrative staff; sanctioned and filled:** Nil

**15. Qualifications of teaching faculty with D.Sc./ D.Litt./ Ph.D./ M.Phil./PG.**

Sl. No.	Name	Designation	Degree
1.	Paramita Maharatna (Chakrabarty)	Associate Professor	M.Phil
2.	Sucharita Ghosh Sengupta	Assistant Professor	Ph.D
3.	Dhananjoy Bhattacharjee	Assistant Professor	M.Phil

**16. Number of faculty with ongoing projects from a) National b) International funding agencies and grants received:**

Name of the faculty	Funding agency	2010-11 (Title of the project with sanction no. and outlay)	2011-12 (Title of the project with sanction no. and outlay)	2012-13 (Title of the project with sanction no. and outlay)	2013-14 (Title of the project with sanction no. and outlay)
Sucharita Ghosh Sengupta	UGC/CPE	Daughters Who overstepped the Threshold: Women in the Terrorist Movement of Bengal (1907-32) Sanction No. UGC/CPE/1057/4 Rs. 25000/-	Continuing	Completed	-
Nandini Saila Dasgupta	UGC/CPE	Women and group theatre in Kolkata Sanction No.UGC/CPE/1058/4 Rs. 10000/-	Continuing	Completed	-

**17. Departmental projects funded by DST-FIST; UGC, DBT, ICSSR, etc. And total grants received:** None

**18. Research Centre /facility recognized by the University:** No

**19. Publication:** (List of publication from 2010-11 to 2014-15)

Name of the faculty	Number of papers published in Peer reviewed Journal	Number of publications listed in international Database	Monographs	Chapters in Books	Books edited	Books with ISBN	Citation index	SNIP	SJR	Impact factor	H index
Paramita Maharatna (Chakrabarty)	01	-	-	03	-	-	-	-	-	-	-
Sucharita Ghosh Sengupta	02	-	-	03	01	-	-	-	-	-	-
Dhananjoy Bhattacharjee	02	-	-	05	-	-	-	-	-	-	-
Nandini Saila Dasgupta	-	-	-	03	-	-	-	-	-	-	-

**20. Areas of consultancy and income generated :** None

**21. Faculty as members in National committees b) International Committees c) Editorial Boards...**

• **National committees :**

Paramita Maharatna (Chakrabarty)

- Life Member: Paschim Banga Itihas Samsad
- Annual Member: Indian History Congress

Anomitra Das

- Life member of Indian History Congress
- Life member of *Bangiya Sahitya Parisad.*
- Annual member of Itihas amsad

Dhananjoy Bhattacharjee

- Life Member: Paschim Banga Itihas Samsad
- Annual Member: Indian History Congress

Dr. Sucharita Ghosh Sengupta

- Life Member of Paschim Banga Itihas Samsad
- Life Member of Indian School of Social Sciences, Calcutta

**22. Student Projects:****a) Percentage of students who have done in-house projects including inter**

**departmental/programme:** Students of 3<sup>rd</sup> year Honours takes part in mandatory Environmental Sciences project as per the syllabus of the University of Calcutta

**b) Percentage of students placed for projects in organizations outside the**

**institution i.e.in Research laboratories/Industry/other agencies:** Nil

**23. Awards/ Recognitions received by faculty and students :**

- a. Presentation of Papers by departmental Students on 2013 in an inter college competition organized by Higher Education Department on Sir Ashutosh Mukherjee. 2<sup>nd</sup> year student (2012-13), Abhijit Saha stood 3<sup>rd</sup>.
- b. *Sanjoy Saha – 3<sup>rd</sup> year student (2012-13), was awarded as the best student of the year- Maulana Azad College*

**24. List of eminent academicians and scientists/ visitors to the department :**

Late Prof Tapan Ray Choudhuri, March, 2010

Prof Ishita Mukherjee, Director, Women Studies' Centre, C.U, March, 2013

**25. Seminars/ Conferences/Workshops organized & the source of funding :**

<i>Topic</i>	<i>Speakers</i>	<i>Funding Agency</i>	<i>Date</i>
<b>National Seminar</b> on Visibility/ Invisibility : A Query into the Condition of "Women" in India	(i) <b>Prof. Amita Chatterjee</b> , Vice Chancellor, Presidency University. (ii) <b>Dr. Shefali Moitra</b> , Formerly Professor of Philosophy, Jadavpur University. (iii) <b>Dr. Priyambada Sarkar</b> , Professor of Philosophy, University of Calcutta (iv) <b>Dr. Sashi Motilal</b> , Associate Professor of Philosophy, Delhi University (v) <b>Dr. Tanika Sarkar</b> , Professor, Centre For Historical Studies, Jawaharlal Nehru University (vi) <b>Dr. Samita Sen</b> , Director, School of Women's Studies, Jadavpur University (vii) <b>Sri. Subhas Ranjan Chakravarty</b> , Formerly Professor of History, Presidency College, Kolkata. (viii) <b>Dr. Debi Chatterjee</b> , Professor, Dept. of International Relations, Jadavpur University (ix) <b>Dr. Manabi Majumder</b> , Fellow, Centre For Studies in Social Sciences, Calcutta (CSSSC) (x) <b>Dr. Rajashree Basu</b> , Director, Centre for Women's Studies, Rabindra Bharati University. (xi) <b>Dr. Moinak Biswas</b> , Reader, Department of Film Studies, Jadavpur	UGC	21 <sup>st</sup> -22 <sup>nd</sup> February, 2011



Topic	Speakers	Funding Agency	Date
	University (xii) <b>Smt. Dolly Basu</b> , Theatre Personality. (xiii) <b>Mr. Ashoke Mukhopadhyay</b> , Theatre Personality.		

### 26. Student profile programme/course wise:

Name of the Course/ programme	Applications Received	Selected	Enrolled			
			M	F	Minorities	% Passed
B. A. Hons (entry year 2010)	642	30	15	15	3	100
B. A. Hons (entry year 2011 )	292	34	17	17	24	100
B. A. Hons (entry year 2012)	310	40	20	20	19	95
B. A. Hons (entry year 2013)	350	39	17	22	31	100
B. A. Hons (entry year 2014-15)	364	43	21	22	33	100

### 27. Diversity of Students:

Name of the Course (UG/PG)	% of students from the same state	% of students from other States	% of students from abroad
2010-11	100%	Nil	Nil
2011-12	100%	Nil	Nil
2012-13	100%	Nil	Nil
2013-14	100%	Nil	Nil
2014-15	99 %	01%	Nil

### 28. How many students have cleared national and state competitive examinations such as NET, SLET, GATE, Civil services, Defence services, etc.: Nil

### 29. Student progression :

Student Progression	Against % Enrolled
UG to PG	95%
PG to M.Phil.	-
PG to Ph.D.	-
Ph.D. to Post-Doctoral	-
Employed	-
Employed: Campus selection	NA
Other than campus recruitment	-
Entrepreneurship/Self-employment	-

### 30. Details of Infrastructural facilities:

a) Library : Number of Titles in seminar Library : 143

b) Internet facilities for Staff & Students

- Number of computers with internet link: 8 in the staff room & One laptop for Departmental use

- c) Class rooms with ICT facility : None  
d) Laboratories : Nil

**31. Number of students receiving financial assistance from college, university, government or other agencies:**

Scheme	2010-11	2011-12	2012-13	2013-14	2014-15
Merit-cum-means Scholarship	-	-	-	-	05 (Rs.45000/-)
Student Aid Fund	-	-	01 (Rs.400/-)	-	01 (Rs.1155/-)
Kanyashree Prakalpa K-2	-	-	-	04 (Rs.100000/-)	-
CPE GRANT (SC/ST/OBC) Non Creamy Layer & Minority Girls	-	-	06 (Rs.27300/-)	-	-

**32. Details on student enrichment programmes (special lectures / workshops / seminar) with external experts :**

Programme	2010-2011	2011-2012	2012-2013	2013-2014
Seminar	Politics and Administration Medieval India	Reminiscences /Memoirs and oral narratives in History in collaboration with Lady Brabourne College –U.G.C sponsored National Seminar  2.Visibility /Invisibility of Women In Indian Perspective - U.G.C sponsored National Seminar	-	-
Workshop	Gender Sensitivity programme- a stage performance by the students emphasizing the message	-	-	-
Doctor's Meet for Girl students	Visiting Expert Dr. Mousumi Banerjee, Consultant Gynaecologist	-	-	-

**33. Teaching methods adopted to improve student learning :** Interactive mode is adopted

**34. Participation in Institutional Social Responsibility (ISR) and Extension activities**

- vi) The National Service Scheme (NSS)
- vii) Campus cleaning drive
- viii) Women empowerment initiatives
- ix) Gender sensitization program

**35. SWOC analysis and Future Plans:**

⇒ **Strength of the Department**

- All Seats are filled up during the admission
- Departmental Result in University Exams
- Taking need-based Tutorial & Remedial Classes Teacher-student interaction/contact hours
- Enriched collection of reference books in the Central Library

**⇒ Weakness**

- Shortage of Class Rooms
- A good number of students coming from Urdu background , suffering from medium of expression
- Departmental Seminar Library

**⇒ Opportunities**

- Faculty members frequently engage themselves in different interdisciplinary streams

**⇒ Challenge**

- To maintain Academic quality and to create career building Awareness or high ambition among the students are really challenging jobs for the department where majority of the students are coming from weaker financial background.
- Faculties are in transferable service, thus stability is sometimes hampered.
- To represent the subject in a more acceptable way and career oriented through workshops etc.

**⇒ Future Plans**

- To start courses in collaborative Enhancement of Tutorial classes and class tests to improve the quality of university results of the students.
- Monitoring Attendance & Regular Parent-Teacher Meeting for general awareness towards higher education.
- More frequent visit of senior visiting Professors for Advanced learners.
- Fully computerized catalogue for Seminar library.
- Counselling for post-graduation and selection of their specialization in future education.
- Separate room to be allotted for the department.

## EVALUATIVE REPORT OF THE DEPARTMENT OF ISLAMIC HISTORY AND CULTURE

1. **Name of the Department** : Islamic History And Culture
2. **Year of Establishment** : 1940
3. **Courses Offered** : UG, Islamic History (Honours) & Islamic History as General
4. **Names of the interdisciplinary courses in which the department is involved:** All students of this Department compulsorily attend Environmental Science classes, which are interdisciplinary in nature.
5. **Annual /Semester/Choice based credit system (Programme wise):**

Programme	Annual	Semester	Credit System
UG in Islamic History (Honours) & Islamic History as General	1+1+1 Examination System of the University of Calcutta	No	No

6. **Participation of the department in courses offered by other Departments:** This Department offers Islamic History & Culture as General subject for the students of the Department of Arabic, Bengali, English, Persian, Sanskrit, Urdu, Philosophy, Political Science and Sociology. In addition, the students of the department can choose MIL as Bengali/English/Urdu/Arabic and they can also opt any two subjects from Bengali, English, Persian, Arabic, Economics, Sanskrit, Urdu, Philosophy, Political Science and Sociology as their General course subjects.
7. **Courses in collaboration with other universities, industries, foreign institutions etc.** Nil
8. **Details of programmes /courses discontinued (if any) with reasons:** None

### 9. Number of Teaching Posts:

POSTS	SANCTIONED	FILLED
Professors	NIL	NIL
Associate Professors	03	01 (through CAS)
Assistant Professors		02

### 10. Faculty profile with name, qualification, designation, specialization (D.Sc./D.Litt./Ph.D./M.Phil etc.)

Sl. No	Name	Qualification	Designation	Specialization	Years of Experience	No.of Ph.D Students guided for last 4 years
1	Jamil Ahmed.	MA, BLIS, B.Ed.	Associate Professor.	Islamic Thought and Sufism.	16 Years	Nil
2	Md. Ashif Zamal Lasker.	MA, B.Ed, Ph.D	Assistant Professor.	Urbanization in Medieval Bengal.	9 Years	Nil
3	Gourishwar Choudhuri	MA	Assistant Professor	Art & Architecture in Medieval India.	5 Years	Nil

11. List of senior visiting faculty: None

12. Percentage of Lectures delivered and practical classes handled (Programme wise) by the temporary faculty: Nil

13. Student-Teacher Ratio (programme wise): For the academic year 2014-15

Programme	Class	Ratio
UG in Islamic History (Honours) & Islamic History as General	1 <sup>st</sup> Year	HONS – 13:1, GENERAL – 50:1
	2 <sup>nd</sup> Year	HONS – 13:1, GENERAL – 50:1
	3 <sup>rd</sup> Year	HONS – 10:1, GENERAL – 30:1

14. Number of academic support staff (technical) and administrative staff; sanctioned and filled: Nil

15. Qualifications of teaching faculty with D.Sc./ D.Litt./ Ph.D./ M.Phil./PG.:

Sl. No.	Name	Designation	Degree
1.	Jamil Ahmed.	Associate. Professor	MA, BLIS, B.Ed.
2.	Md. Ashif Zamal Lasker.	Assistant Professor	MA., B.Ed. Ph.D.
3.	Gourishwar Choudhuri	Assistant Professor	MA.

16. Number of faculty with ongoing projects from a) National b) International funding agencies and grants received: Nil

17. Departmental projects funded by DST-FIST; UGC, DBT, ICSSR, etc. And total grants received: Nil

18. Research Centre /facility recognized by the University: No

19. Publications: (List of publication per faculty from 2010-11 to 2014-15)

Name of the faculty	Number of papers published in Peer reviewed Journal	Number of publications listed in international Database	Monographs	Chapters in Books	Books edited	Books with ISBN	Citation index	SNIP	SJR	Impact factor	H index
Jamil Ahmed.	02										
Md. Ashif Zamal Lasker.	04					01					
Gourishwar Choudhuri	01										

20. Areas of consultancy and income generated: None.

21. Faculty as members in National committees b) International Committees c) Editorial Boards

...

- **National committees:** Prof. Jamil Ahmed, Panel Member in National Council for Promotion of Urdu Language (NCPUL), New Delhi.
- **Editorial Boards:** Prof. Md. Ashif Zamal Lasker, Member, Suchintan-Journal for Social Sciences

**22. Student projects:**

- a) **Percentage of students who have done in-house projects including inter departmental/programme:** 100% students of the Undergraduate programme do a project on Environmental Science as mandatory Course work
- b) **Percentage of students placed for projects in organizations outside the institution i.e.in Research laboratories/Industry/other agencies:** Nil

**23. Awards/ Recognitions received by faculty and students:** Sultanul Hind Award received by faculty member, Prof. Jamil Ahmed from Imam Ahmed Reza Society, Kolkata, 1<sup>st</sup> January, 2013

**24. List of eminent academicians and scientists/ visitors to the department:** None

**25. Seminars/ Conferences/Workshops organized & the source of funding :**

Type	Details	Funding agency	2010-11
National Seminar	Seminar organized by the Department of Political Science along with the Dept. of Islamic History and Culture on Administration, Politics and Society in Medieval India 1206-1707.	UGC	01

**26. Student profile programme/course wise:**

Course/ programme	Year	Applications received	Selected	Enrolled *M *F	Minorities	Pass percentage
UG	2010-11	49	35	M-20. F-15.	35	100%
	2011-12	56	41	M-19. F-22	41	100%
	2012-13	62	46	M-30. F-16.	46	97%
	2013-14	58	40	M-34. F-06.	40	97%
	2014-15	60	40	M-29. F-11.	40	97%

**27. Diversity of Students:**

Year	Name of the Course (UG/PG)	% of students from the same State	% of students from other States	% of Students From Abroad
2010-11	UG	92.5%	7.5%	NIL.
2011-12	UG	100%	NIL.	NIL.
2012-13	UG	100%	0%	NIL.
2013-14	UG	100%	0%	NIL.

**28. How many students have cleared national and state competitive examinations such as NET, SLET, GATE, Civil services, Defence services, etc.**

Exam	2010-11	2011-12	2012-13	2013-14
School Service	03	01	01	01

**29. Student Progression:**

Student Progression	Against % Enrolled
UG to PG	100%
PG to M.Phil.	-
PG to Ph.D.	-
Ph.D. to Post-Doctoral	-
Employed	-
Campus selection	-
Other than campus recruitment	10
Entrepreneurship/Self-employment	-

**30. Details of Infrastructural facilities:**

**Library:** Number of Books in seminar Library: 250

**Internet facilities for Staff & Students:** Internet is available for the faculty in the General Staff Room. Students access the internet from the College Library.

**Laboratories:** NA

**ICT:** Nil

**31. Number of students receiving financial assistance from college, university, government or other agencies:**

Scheme	2010-11	2011-12	2012-13	2013-14	2014-15
Merit-cum-means Scholarship	-	-	--	-	01 (Rs.9000/-)
CPE GRANT (SC/ST/OBC) Non Creamy Layer & Minority Girls	-	-	03 (Rs.13650/-)	-	-
Kanyashree Prkalpa K-2	-	-	-	-	03 (Rs.150000/-)
Student Aid Fund	-	04 (Rs.3737/-)	-	01 (Rs.900/-)	01 (Rs.1155/-)

**32. Details on student enrichment programmes (special lectures / workshops / seminar) with external experts :** None**33. Teaching methods adopted to improve student learning :** Interactive mode is adopted**34. Participation in Institutional Social Responsibility (ISR) and Extension activities:**

- i) The National Service Scheme (NSS)
- ii) Campus cleaning drive
- iii) Women empowerment initiatives
- iv) Gender sensitization program

**35. SWOC analysis and Future Plans:****⇒ Strength of the Department**

- The only Government College offering this course at both Honours and General level.
- All the qualifying students progress to the P.G. level.
- Selection of students in both School Service and Madrasah service commission as Asst. Teacher.
- Qualified faculty, good library, healthy demand ratio

**⇒ Weakness**

- No separate space is provided for faculty members.
- Under staffed department
- Un-revised syllabus
- Transferrable service

**⇒ Opportunities**

- Increasing demand for the subject both in the country as well as abroad in view of the growing interest in Islam through-out the world.
- Research scope outside the country
- Associated disciplines like History, Sociology, Pol. Sc, Economics and languages like Urdu, Persian and Arabic provide an excellent backdrop for research in multidisciplinary areas in this college.

**⇒ Challenges**

- Keeping the subject relevant in a dynamic world.
- Inadequate inputs in the field,
- Students from Underprivileged and socially challenged background tend to lose confidence midway in their studies.
- Lack of adequate research funding in this area.

**⇒ Future Plans:**

- To open P.G. Department
- To start courses in collaboration with other institutions.



## EVALUATIVE REPORT OF THE DEPARTMENT OF MATHEMATICS

1. Name of the Department : Mathematics
2. Year of Establishment: 1926
3. Courses offered : UG: B. Sc. Honours in Mathematics & B.Sc. General in Mathematics
4. Names of Interdisciplinary courses and the departments /units involved: All students are involved in compulsory Interdisciplinary course of Environmental Science
5. Annual/semester/choice based credit system (programme wise):

Programme	Annual	Semester	Credit System
B. Sc Honours in Mathematics (1+1+1 Years)	1+1+1 Examination System of the University of Calcutta	No	No

6. Participation of the department in the courses offered by other departments /Institutions:
  - (i) Students of B.Sc. Honours in Mathematics opt for Compulsory English, Bengali/English/Urdu as Modern Indian Language, Physics and Chemistry/Statistics as their auxiliary subjects in General Course during the 1<sup>st</sup> and 2<sup>nd</sup> year.
  - (ii) Mathematics as a General subject is opted by the Students of the B.Sc. Honours course in Physics, Chemistry, Statistics, and Economics during their 1<sup>st</sup> and 2<sup>nd</sup> year study.
7. Courses in collaboration with other universities, industries, foreign institutions, other institutions, etc.: None
8. Details of courses/programs discontinued (if any) with reasons: Nil
9. Number of Teaching posts

	<i>Sanctioned</i>	<i>Filled</i>
Professors	0	0
Associate Professors	5	3 (by CAS)
Assistant Professors		1

10. Faculty profile with name, qualification, designation, specialization, (D.Sc./D.Litt. /Ph. D/ M. Phil. Etc.,) Data includes PTT/ Guest faculty

<i>Name</i>	<i>Qualification</i>	<i>Designation</i>	<i>Specialization</i>	<i>No. of years of experience</i>	<i>No. of Ph.D. Students guided for the last 4</i>
<b>Shri Bidyut Kumar Roy</b>	M. Sc.	Associate Professor	Geophysics & Geodesy	30	Nil
<b>Sri Kartik Chandra Basak</b>	M. Sc., M. Phil.	Associate Professor	Advance Computer Science & Cybernetics	29	Nil
<b>Dr. Somnath Bandyopadhyay</b>	M.Sc., M. Phil., Ph. D.	Associate Professor	Real Analysis	23	Nil

Dr. Nanda Das	M.Sc., Ph. D.	Assistant Professor	Mathematical Biology	13	Nil
<b>Teachers Transferred Or Retired Between The Period 1<sup>st</sup> April 2010 To September 2015</b>					
Dr. Nani Gopal Sarkar	M.Sc., M. Phil, Ph. D.	Reader	Statistical & Chemical Thermodynamics	18 Years As on (01.07.2007)	Nil
Shri Pranab Kumar Adhikari	M. Sc.	Assistant Professor (S.G)	Real and Functional Analysis	23 Years As on (01.08.2009)	Nil
Dr. Bidyut Kumar Pal	M. Sc., Ph. D	Associate Professor	Fourier Analysis	36 Years (Retired on 30.04.2015)	Nil

11. List of senior visiting faculty: NIL

12. Percentage of lectures delivered and practical classes handled (programme wise) by temporary faculty: presently there is no temporary faculty in the department

13. Student-Teacher Ratio (programme wise) ( 2014-15):

Course	B.Sc. Honours in	Ratio	B.Sc. General in Mathematics	Ratio
UG	First Year	7.5:1	First Year	34.5:1
	Second Year	8.8:1	Second Year	27:1
	Third Year	5:1	Third Year	no General Stream in 3 <sup>rd</sup> year

14. Number of academic support staff (technical) and administrative staff; sanctioned and filled: NIL

15. Qualifications of teaching faculty with D.Sc./D.Litt/Ph.D/M.Phil./PG.:

Serial No.	Name of Faculty	Qualifications
1	Shri Bidyut Kumar Roy	M. Sc.
2	Sri Kartik Chandra Basak	M. Sc., M. Phil.
3	Dr. Somnath Bandyopadhyay	M.Sc., M. Phil., Ph. D.
4	Dr. Nanda Das	M. Sc., Ph. D.

16. Number of faculty with ongoing projects from a) National, b) International funding agencies and grants received : (2010-2015)

Name of Faculty	Title of Project	Funding Agency	Grant Received	Period
Dr. Nanda Das	“Marine viruses - - major players in the plankton ecosystem: Mathematical Study”	UGC Sanction No. F.PSW-37/12-13, dated 05.02.2013.	Rs. 1,92,000/-	2013-15

17. Departmental projects funded by DST – FIST; UGC, DBT, ICSSR, etc.:

Departmental Grant	Year	Amount
UGC-CPE	2011-13	Rs.78,000/-

DST-FIST	2012-13	Rs.1,08,000/-
UGC-BSR	2012-13	Rs.5,00,000/-

18. **Research Centre /facilities recognized by University:** No

19. **Publication per faculty : (2010-2015)**

Name of the faculty	No. of papers National / International	No. of publications indexed in Int. Data Base.(ISBN/ISSN)	Monographs	Chapters in Books	Books edited	Books with ISBN/ISSN	Citation index	SNIP	SJR	Impact factor	H index
Dr. Nanda Das	9	9	0	0	0	0	0	-	-	-	-

20. **Areas of consultancy and income generated:** NIL

21. **Faculty as members in**

b) **National committees b) International Committees c) Editorial Boards...**

1	Dr. Bidyut Kumar Pal	Life Member in <b>Calcutta Mathematical Society</b>
2	Dr. Nanda Das	(i) Life Member in <b>Calcutta Mathematical Society</b> (ii) Life Member in <b>Bio-mathematical Society of India</b> (iii) Life member of <b>The Indian Science Congress Association</b>

22. **Student projects:**

a) **Percentage of students who have done in-house projects including inter-departmental/ programme:**

In each year 100 % of the 3<sup>rd</sup> year students of B.Sc. honours in Mathematics does an 'In-house Environmental Project' as per Calcutta University guidelines of B.Sc. Honours in Mathematics (1+1+1 Years) course.

b) **Percentage of students placed for projects in organizations outside the institution i.e.in Research laboratories/Industry/other agencies:** None

23. **Awards/Recognitions received by faculty and students:**

- Dr. Nanda Das was awarded a travel grant by UGC to attend the International Conference held at Bedlewo Conference Centre, Poland.

24. **List of eminent academicians and scientists/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	Applications Received	Selected	Enrolled			
			M	F	Minorities	% Passed
B. Sc. Hons. (entry year 2010)	862	30	27	3	20	69%
B. Sc. Hons. (entry year 2011)	912	33	26	7	16	85%
B. Sc. Hons. (entry year 2012)	1024	33	26	7	17	77%

B. Sc. Hons. (entry year 2013)	1364	37	29	4	15	100%
B. Sc. Hons. (entry year 2014)	1245	36	24	6	12	76%

### 27. Diversity of Students

Name of the Course	% of students from the same state	% of students from other States	% of students from abroad
B.Sc. Honours 2010-11 batch	100%	NIL	NIL
B.Sc. Honours 2011-12batch	100%	NIL	NIL
B.Sc. Honours 2012-13 batch	100%	NIL	NIL
B.Sc. Honours 2013-14 batch	100%	NIL	NIL
B.Sc. Honours 2014-15 batch	100%	NIL	NIL

### 28. How many students have cleared national and state competitive examinations such as NET, SET, GATE, Civil services, Defence services, etc.

Year	JAM	SSC	WBCS
2012	1	--	-
2013	1	2	-
2014	1	--	1
2015	2	--	-

### 29. Student progression

Student Progression	Against % Enrolled
<i>UG to PG</i>	50 %
<i>PG to M. Phil.</i>	Nil
<i>PG to Ph.D.</i>	30 %
<i>Ph.D. to Post –Doctoral</i>	1%
<i>Employed:</i>	
<i>Campus Selection:</i>	<i>Nil</i>
<i>Other than Campus recruitment:</i>	<i>40%</i>
<i>Entrepreneurship/Self-employment</i>	<i>20%</i>

### 30. Details of Infrastructural facilities:

- **Library:** Seminar Library with 150 books
- **Digital resources: Internet facilities for Staff & Students**

Internet is available for the faculty in the Department Staff Room as well as the General Staff Room.

The students access the internet from the College Library.

- **Class rooms with ICT facility:** One
- **Laboratories:** Computer Laboratory (associated with Dept. of Statistics)
  - No. of Computers : 19
  - Other features : 01 mounted LCD Projector
  - Software : Mathematica (in Departmental PC)

**31. Number of students receiving financial assistance from college, university, government or other agencies:**

<i>Scheme</i>	<i>2010-11</i>	<i>2011-12</i>	<i>2012-13</i>	<i>2013-14</i>	<i>2014-15</i>
Merit-cum-means Scholarship	07 (Rs.75600/-)	13 (Rs.140400/-)	-	03 (Rs.32400/-)	03 (Rs.32400/-)
Student Aid Fund	-	-	04 (Rs.4830/-)	-	01 (Rs.1575/-)
KANYASHREE PRAKALPA K-2	-	-	-	02 (Rs.50000/-)	01 (Rs.25000/-)

**32. Details on student enrichment programmes (special lectures/workshops/seminar) with external experts:** None**33. Teaching methods adopted to improve student learning:** Interactive modes adopted**34. Participation in Institutional Social Responsibility (ISR) and Extension activities Students of the department are active in :**

- The National Service Scheme (NSS)
- Campus cleaning drive
- Women empowerment initiatives
- Gender sensitization program

**35. SWOC analysis of the department and Future plans:**

<p><b><u>STRENGTH</u></b></p> <ul style="list-style-type: none"> <li>The department consists of highly qualified, competent and dedicated teaching faculty.</li> <li>The students of this department obedient, Diligent. Some of them are placed in the merit list of CU Examination as well as are having high ranking in JAM, CMI. HCU.</li> <li>Enriched seminar library for students as well as teachers.</li> <li>Well equipped computer laboratory with 25 computers, one Laptops and one LCD Projector.</li> </ul>	<p><b><u>WEAKNESS</u></b></p> <ul style="list-style-type: none"> <li>Lack of space and insufficient class room.</li> <li>Inadequate teaching faculty and a general inadequacy in the number of sanctioned teaching posts</li> <li>No non-teaching staff in the department. <ul style="list-style-type: none"> <li>Insufficient inflow of government funds for meeting regular expenses.</li> </ul> </li> <li>Faculty research is hindered by the fact that there is too much burden of classes as well as administrative work.</li> </ul>
<p><b><u>OPPORTUNITY</u></b></p> <ul style="list-style-type: none"> <li>Teachers have been involved in different research work and research project from time to time.</li> <li>Students are motivated for higher studies through regular counselling.</li> <li>Special coaching classes for JAM, HCU, CMI entrance examination.</li> </ul>	<p><b><u>CHALLENGE</u></b></p> <ul style="list-style-type: none"> <li>To complete the syllabus in due time following the University Examination schedule</li> <li>Being a Government College the process of filling up of teaching and non-teaching post is slow.</li> </ul>

**EVALUATIVE REPORT OF THE DEPARTMENT OF MICROBIOLOGY**

- Name of the Department: MICROBIOLOGY**
- Year of Establishment: 2003**
- Courses Offered: UG: B.Sc. Honours in Microbiology**
- Names of the Interdisciplinary Courses in Which the Department Is Involved:** All students of UG are involved in Compulsory Interdisciplinary course of Environmental Science as offered by the University of Calcutta in its UG Programme.
- Annual /Semester/Choice Based Credit System (Programme Wise):**

<i>Programme</i>	<i>Annual</i>	<i>Semester</i>	<i>Credit System</i>
<b>UG (B.Sc. HONOURS in Microbiology)</b>	<b>(1+1+1 Years) Examination System of the University of Calcutta</b>	<b>No</b>	<b>No</b>

- Participation of The Department In Courses Offered By Other Departments:**  
Students of B.Sc. Honours in Microbiology opt for Compulsory English, MIL Bengali/English, Botany and Chemistry as their auxiliary subjects in General Course during the 1<sup>st</sup> and 2<sup>nd</sup> year.
- Courses In Collaboration With Other Universities, Industries, Foreign Institutions Etc.:**  
*No*
- Details Of Programmes /Courses Discontinued(If Any) With Reasons: None**
- Number of Teaching Posts:**

<i>Name of the Post</i>	<i>Sanctioned</i>	<i>Filled</i>
Professor	-	Nil
Associate Professor	05	01 (through CAS)
Assistant Professor		03

**10. Faculty Profile with Name, Qualification, Designation, Specialization (D.Sc./D.Litt./Ph.D./M.Phil. etc.)**

<i>Name</i>	<i>Qualification</i>	<i>Designation</i>	<i>Specialization</i>	<i>Years of Experience</i>	<i>No. of Ph.D. Students guided for last 4 years</i>
<b>Dr. Swapan Bhattacharyya</b>	M.Sc. Ph.D.	Associate Professor	Microbiology	34	01
<b>Dr. Samudra Prosad Banik</b>	M.Sc. Ph.D.	Assistant Professor	Biophysics & Molecular Biology	6	Nil
<b>Dr. Rini Roy</b>	M.Sc. Ph.D.	Assistant Professor	Biochemistry	6	Nil
<b>Dr. Avishek Ghosh</b>	M.Sc. Ph.D.	Assistant Professor	Host-Pathogen interaction	4.8	Nil

<b>Dr. Bikash Kundu</b>	M.Sc. Ph.D.	Part Time Teacher	Microbiology	11	Nil
<b>Dr. Suchitra Sarkar</b>	M.Sc. Ph.D.	Part Time Teacher	Biochemistry & Molecular Biology	6	Nil
<b>Dr. Shakuntala Ghorai</b>	M.Sc. Ph.D.	Part Time Teacher	Biochemistry	3	Nil
<i>Teachers transferred or retired between the period 2010 to September 2015</i>					
Dr. Soma Pal Saha (transferred to Darjeeling Govt. College on 4 <sup>th</sup> August, 2015)	M.Sc. Ph.D.	Assistant Professor	Microbiology	8	Nil

**11. List Of Senior Visiting Faculty: None****12. Percentage Of Lectures Delivered And Practical Classes Handled (Programme wise) By The Temporary Faculty:**

Programme	Temporary Faculty	% classes taken (Hons. Only, General not offered)
UG (B.Sc. Honours in Microbiology)	Part Time Teachers	22.2

**13. Student-Teacher Ratio (programme wise):**

Programme	Class	Ratio (Hons. Only General not offered)
UG (B.Sc. HONOURS in Microbiology) 2014-15	1 <sup>st</sup> Year	2.7:1
	2 <sup>nd</sup> Year	1.6: 1
	3 <sup>rd</sup> Year	1.7: 1

**14. Number of Academic Support Staff (Technical) and Administrative Staff; Sanctioned and Filled:**

Category of Support Staff	Sanctioned	Filled
Group D	1	1

**15. Qualifications of Teaching Faculty with D.Sc./ D.Lit./ Ph.D./ M.Phil./PG.**

Sl. No.	Name	Designation	Degree
1	<b>Dr. Swapan Bhattacharyya</b>	Associate Professor	M.Sc. Ph.D.
2	<b>Dr. Samudra ProsadBanik</b>	Assistant Professor	M.Sc. Ph.D.
3	<b>Dr. Rini Roy</b>	Assistant Professor	M.Sc. Ph.D.
4	<b>Dr. Avishek Ghosh</b>	Assistant Professor	M.Sc. Ph.D.
5	<b>Dr. Bikash Kundu</b>	Part Time Teacher	M.Sc. Ph.D.
6	<b>Dr. Suchitra Sarkar</b>	Part time Teacher	M.Sc. Ph.D.
7	<b>Dr. Shakuntala Ghorai</b>	Part Time Teacher	M.Sc. Ph.D.
8	Dr. Soma Pal Saha (transferred)	Assistant Professor	M.Sc. Ph.D.

**16. Number of Faculty with Ongoing Projects from A) National B) International Funding Agency and Grants Received**

Name Of The Faculty	Funding Agency	2010-11 (Title Of The Project With Sanction No. And Outlay)	2011-12 (Title Of The Project With Sanction No. And Outlay)	2012-13 (Title Of The Project With Sanction No. And Outlay)	2013-14 (Title Of The Project With Sanction No. And Outlay)	2014-15 (Title Of The Project With Sanction No. And Outlay)
Dr. Swapan Bhattacharyya	UGC	Co-Investigator: "Isolation, partial purification... Cellulytic enzymes... filamentous fungus" Sanction No. F.PSW-054/10-11 Outlay Rs 165000 "Synthesis of alkaline 322nrol322atise by free-living diazotrophs", Sanction no. F. PSW- 055/10-11. Outlay Rs 153000/-	Continuing	Completed	Co-Investigator Effect of trehalose on aggregation of fungal glycosidases Ref F. No. 43-69/2014 (SR) dated 23 <sup>rd</sup> July, 2015 Sanctioned Rs. 1453000/- Fund released in 1 <sup>st</sup> installment Rs 9, 73,000/-	Continuing
Dr. Samudra Prosad Banik	UGC	Principal Investigator "Isolation, partial purification... Cellulytic enzymes... filamentous fungus" Sanction No. F.PSW-054/10-11 Outlay Rs 165000/-	Continuing.	Completed	Effect of trehalose on aggregation of fungal glycosidases Ref No. MRP-MAJOR-BIOT-2013-18871 Outlay Rs 1993800/- Status: Applied	Principal Investigator Effect of trehalose on aggregation of fungal glycosidases Ref F. No. 43-69/2014 (SR) dated 23 <sup>rd</sup> July, 2015 Sanctioned Rs. 1453000 /- Fund released in 1 <sup>st</sup> installment



Name Of The Faculty	Funding Agency	2010-11 (Title Of The Project With Sanction No. And Outlay)	2011-12 (Title Of The Project With Sanction No. And Outlay)	2012-13 (Title Of The Project With Sanction No. And Outlay)	2013-14 (Title Of The Project With Sanction No. And Outlay)	2014-15 (Title Of The Project With Sanction No. And Outlay)
						nt Rs 9,73,000 /-
Dr. Soma Pal Saha	UGC	Synthesis of alkaline 323nrol323atise by free-living diazotrophs F. PSW- 055/10-11. Outlay Rs 153000/-	Continuing	Completed		
Dr. Rini Roy (Co-Investigator)	UGC		A comparison of the ameliorating effect ...turmeric, grapes and tea against vanadium induced testicular toxicity Sanction No. F. PSW- 196/11-12 Outlay Rs 192000/-	Continuing	Completed	

**17. Departmental Projects Funded By DST-FIST; UGC, DBT, ICSSR, Etc. And Total Grants Received:**

Year	Funding Agency	Scheme	Grant amount
2011-12	DBT	Star College Programme (continued)	Rs.8,00,000/-
2010-11	UGC	CPE assistance	Rs.23,00,000/-
2010-15	DST	DST-FIST	Rs. 7,00,000/-

**18. Research Centre /Facility Recognized By the University:**

The department is recognized as a Ph.D. awarding centre by the University of Calcutta.  
(Dr. Swapan Bhattacharyya is recognized as Ph.D. Supervisor by CU)

**19. Publication per Faculty:**

Name of the faculty	No. of papers in Peer reviewed National and international Journal	No. of publications indexed in Int.Data Base.(ISBN/ISSN)	Monographs	Chapters in Books	Books edited	Books with ISBN/ISSN	Citation index (No. of citations)	SNIP	SJR	Impact factor	H index
Dr. Swapan Bhattacharyya	5	5	-	4	-	-		0.998 - 1.034	0.55 1- 1.3	0.98- 3.2	1
Dr. Soma Pal Saha	7	7	-	2	-	-		0.998	0.55 1	0.189- 3.34	2
Dr. Rini Roy	12	12	-	1	-	-	3	-	-	0.835- 3.241	1
Dr. Samudra Prosad Banik	14	14	-	3	-	-	16 9	0.653 - 2.013	0.47 3- 2.19 9	0.55- 4.365	6
Dr. Avishek Ghosh	5	5	-	-	-	-	54	1.108 - 1.923	0.97 6- 4.36 5	2.29- 8.14	2
Dr. Shakuntala Ghorai	10	10	-	2	-	-		0.653 - 2.013	0.47 3- 2.19 9	0.55- 4.35	5

21. Areas Of Consultancy And Income Generated :None

22. Faculty As Members In National Committees/ International Committees/ Editorial Boards

Name of faculty	Members in National committees/ International Committees/ Editorial Boards
Dr. Swapan Bhattacharyya	Chief editor of the MAC Journal of Basic and Applied Sciences Life member of Botanical Society of India Life member, Association of Microbiologists of India
Dr. Soma Pal Saha	Member of editorial board, MAC Journal of Basic and Applied Sciences Life member of Mycological Society of India. Life member of Indian Science Congress Association (ISCA), Kolkata. Life member, Association of Microbiologists of India
Dr. Rini Roy	Member of editorial board, National Environmental Science Academy Life member of Indian Science Congress Association (ISCA), Kolkata. Life member of National Environmental Science Academy (NESAs). Life member of Society for Biological Chemists (SBC) Annual member of Indian Chemical Society, Kolkata. Annual member of Indian Society of Toxicology.
Dr. Samudra Prosad Banik	Life member, Biotech Research Society of India
Dr. Shakuntala Ghorai	Life member of Society of Biological Chemists

**23. Student Projects : Percentage of students who have done in-house projects including inter departmental/programme:**

- a) **Percentage of students who have done in-house projects including inter departmental/programme:** 100% of UG Microbiology Honours final year students undertake project works on Environmental Studies.
- b) **Percentage of students placed for projects in organizations outside the institution i.e.in Research laboratories/Industry/other agencies:** None

**24. Awards/ Recognitions received by faculty and students :**

**2014-15**

Students of third year won the third prize in the best model category (UG level) at the Youth Science Fair, 2014 held at BITM, Kolkata on 1-09-2014 and 02-09-2014.

**2013-14**

- Students of third year (2013-14) under the guidance of two faculty members won the first prize in the poster presentation session in the UGC sponsored National level Seminar on “Prospect of Biotechnology in Rural Bengal” at Uluberia College on 17<sup>th</sup> and 18<sup>th</sup> January, 2014. The title of the paper was ‘Synthesis of amylase and acid 325nro1325atise by *Penicillium* sp. ANS-201 from nonconventional starchy substrates’.
- Students of 3<sup>rd</sup> year (2013-14 batch) under the guidance of two faculties of the department won the third prize in poster presentation session on the paper entitled ‘Bioremediation of Methyl Parathion by Bacterial strains isolated from fresh vegetables’ at the National seminar on Natural Resources and Heritage conservation issues in India, at Seminar Hall, West Bengal Pollution Control Board, Paribesh Bhavan, Salt Lake, Kolkata organized by Social Environmental and Biological Association in collaboration with Zoological Survey of India, September 8, 2013.
- 1<sup>st</sup> year students (2013-14 batch) of Microbiology Hons won 2<sup>nd</sup> Runner –Up prize in Science Quiz in the 22<sup>nd</sup> Dipta Memorial Symposium organized by Research Scholars’ Forum, Bose Institute, Kolkata, 2014.

**2012-13**

- Students of 3<sup>rd</sup> year (2012-13batch) undertook a project on the examination of air and drinking water quality of Government Hospitals in Kolkata. Based on the findings of the study, students presented a poster entitled “A study on bacterial isolates from air and water of major Government hospitals in Kolkata, West Bengal” in the National level Conference in “Biodiversity: Threats and conservation Through traditional and Biotechnological Approaches” organized by Dum Dum Motijheel College in collaboration with Bose Institute & Botanical Survey of India on February 4-6, 2012 which was published in the Proceedings of the conference entitled “Biodiversity Conservation: Fundamentals and Applications” (2012) Pgs 139-143, ISBN: 978-93-80663-57-9.

**2010-11**

- A student of 2<sup>nd</sup> year (2010-11batch) won 1<sup>st</sup> prize in the lecture competition in the Workshop for the Young Biochemists held at Lady Brabourne College, Kolkata in 2009.

- Students of 2<sup>nd</sup> year Microbiology (H) (2010-11 batch) undertook a project on the Microbiological assessment of milk quality of different local brands in Kolkata and subsequently presented their findings in the oral presentation session of the National level conference on “Biotechnology for sustainable development” at Heritage Institute of Technology, Kolkata on 23<sup>rd</sup> & 24<sup>th</sup> February 2012. The studies were also published in the peer reviewed college science journal, MAC Journal of Basic and Applied Sciences, Vol 1 No. 1: 2013: 91-98.
- Students of second year (2010-11 batch) secured first and second positions in the Dipta Memorial Symposium Quiz competition organised by Bose Institute Research Scholar’s Forum on 16<sup>th</sup> September, 2011.
- Students of second year (2011-12 batch) secured the first and second positions in the essay writing competition at the UGC sponsored one-day National seminar on Swami Vivekananda’s Vision and its Relevance in the Contemporary World, jointly organised by Lady Brabourne College, Kolkata and Ramakrishna Sarada Mission Vivekananda Vidya Bhavan on March 1, 2013.
- 1<sup>st</sup> year and 2<sup>nd</sup> year students (2011-12 & 2012-13 batch) of Microbiology Hons. Visited the VECC cyclotron facility at VECC, Salt Lake, Kolkata and won two prizes in the quiz competition organized by VECC as a part of National Science Day Celebrations on 28<sup>th</sup> February, 2013.

**Extra-curricular:**

- Sushmita Ghosh, first year student (2014-15 batch) won the first prize in singing in an event organized by Alokjatri on 3<sup>rd</sup> Jan, 2015, a non profit organization, run by the students of this college which also publishes a little magazine by the same name.
- Aymen Parvez, first year student (2014-15 batch) won the second prize in debate in the Alokjatri event.
- Kanad Sur, first year student (2014-15 batch) won the first prize in photography in the Alokjatri event.
- Abhishek Dey, first year student (2014-15 batch) won the first prize in debate and in self-composed poem recitation in the Alokjatri event.

**Faculties’ Profile:**

- Dr. Soma Pal Saha and Dr. Rini Roy attended as college representative of the Placement Cell in the Training and Placement Officer’s (TPO) meet organized by IBS Kolkata at the IBS Kolkata campus on 7<sup>th</sup> September, 2013.
- Dr. Rini Roy acted as Resource person in the interactive session in the National Seminar on Aqua resources: Care and Concerns, organised by Social Environmental and Biological Association (SEBA) in collaboration with ENVIS Centre on Faunal Diversity, Zoological Survey of India and West Bengal Biodiversity Board, February 14, 2015.

**25. List Of Eminent Academicians And Scientists/ Visitors To The Department :**

Sr. No.	Name and affiliation	Program Details
1	Dr. Debasish Bhattacharyya Scientist E, CSIR- IICB	Delivered a lecture on protein purification in a two day workshop of the DBT STAR College Programme on 29 <sup>th</sup> October, 2011.
2	Dr. Ambika Charan Banerjee Corporate Advisor, East India Pharmaceutical Works Limited	Interacted with the students on the topic 'Chemicals and Enzymes from Microorganisms: Biotechnological Approach' on 24/09/13.
3	Dr. Dipak Dasgupta Senior Professor, Biophysics and Structural Biology Division, SINP	Interacted with the students on the topic 'Conversation with future bright Community of Biologists: An Introduction to few current trends in Biology' on 27.09.2013.
4	Dr. Debashis Mukhopadhyay Associate Professor, Structural Genomics Section, SINP	Interacted with students on the topic 'Application of Proteomics on Life Science Research' on 01.10.2013.
5	Dr. Pradipta Saha Assistant Professor, Department of Microbiology, Burdwan University	Delivered a presentation on "Prokaryotic diversity is Unseen Majority: Introduction to principle, methods & techniques" on 7 <sup>th</sup> February, 2012 and thereafter adjudicated the student seminar session.

**26. Seminars/ Conferences/Workshops organized & the source of funding:**

Type	Funding agency	2010-11	2011-12	2012-13	2013-14	2014-15
National Seminar	UGC	-	National Seminar on "Spectroscopy: Its application in Biological sciences" in collaboration with Indian Association for Cultivation of Science, Jadavpur, Kolkata	-	-	-
Workshop	DBT	-	3 day workshop on Protein purification 29.10.11-31.10.11)	4 day Microbial synthesis and degradation of polyhydroxybutanoate (30 <sup>th</sup> October, 2012-2 <sup>nd</sup> November, 2012  3 day workshop on Plasmid curing in bacteria by SDS	1. A study of plant pigments by TLC and spectroscopy ; two day workshop (22 <sup>nd</sup> and 23 <sup>rd</sup> October, 2013) 2. Studies on Physico-biochemical and Microbiological status of dried	1)"Screening of antimicrobial potential of natural products" organized by Department of Microbiology, Maulana Azad College held

Type	Funding agency	2010-11	2011-12	2012-13	2013-14	2014-15
				and Ethidium Bromide (25.11.12-27.11.12)	spices of Jan-Bazaar, Kolkata' at Maulana Azad College in the Department of Microbiology for the undergraduate 1 <sup>st</sup> year Microbiology Honours students, 24 <sup>th</sup> November – 3 <sup>rd</sup> December, 2013.	on 25 <sup>th</sup> -27 <sup>th</sup> August 2014. 2) "Kitchen microbes "Jan-Feb, 2015 By first year students

### 27. Student profile programme/course wise:

Name of the Course/programme	Academic year	Applications received	Selected	Enrolled			Pass percentage
				M	F	Minorities	
UG	2010-11	188	25	15	10	1	100
	2011-12	532	26	10	16	3	100
	2012-13	564	20	4	16	7	100
	2013-14	925	18	10	8		100
	2014-15	831	17	9	8	4	100

### 28. Diversity of Students

Name Of The Course	%Of Students From The Same State	% Of Students From Other States	% Of Students From Abroad
B.Sc.Honours2010-11batch	100	Nil	Nil
B.Sc.Honours2011-12batch	100	Nil	Nil
B.Sc.Honours2012-13batch	100	Nil	Nil
B.Sc.Honours2013-14batch	94	6	Nil
B.Sc.Honours2014-15batch	100	Nil	Nil

**29. How many students have cleared national and state competitive examinations such as NET, SLET, GATE, Civil services, Defence services, etc.?**

The following table enlists the details

<i>Serial No.</i>	<i>Name</i>	<i>Academic year</i>	<i>Entrance Examination Qualified</i>	<i>Current Position</i>
1	Anindita Bhattacharyya	2011-12	CSIR- NET (JRF) with SPM call	JRF at IACS
2	Sagnika Ghosh	2011-12	C.U. Microbiology	Research Intern at Dept. of Microbiology, Calcutta University, GRE Aspirant
3	Sourav Ghosh	2011-12	Kalyani University Microbiology	
4.	Afroz Alam	2011-12	W.B.C.S. Executive (ranked 8 <sup>th</sup> )	W.B.C.S. Officer
5.	Subhasis Ghosh	2011-12	C.U. Biotech	
6.	Huma Saz	2011-12	Presidency University Molecular Biology	
7.	Mayukh Paul	2012-13	J.N.U Microbiology	JRF at Bose Institute
8.	Satakshi Hazra	2012-13	C.U. Microbiology	
9.	Mousam Roy	2012-13	Bose Institute Integrated Ph.D.	Pursuing integrated Ph.D. at Bose Institute
10.	Anindita Halder	2012-13	National Institute of Oceanography	
11.	Shamik Roy	2013-14	CSIR- NET (JRF)	Pursuing Ph.D. at IISC
12.	Madhura Dey	2013-14	CSIR- NET (JRF), Bose Institute Integrated Ph.D.,	Pursuing integrated Ph.D. at Bose Institute
13.	Rudra Narayan Saha	2013-14	CSIR- NET (LS )	
14.	Abhishek Bhattacharya	2013-14	JNU Microbiology	
15.	Humairallyas	2013-14	Bose Institute Integrated Ph.D.	Pursuing integrated Ph.D. at Bose Institute
16.	Debanjan Saha	2013-14	C.U. Biochemistry	
17.	Soham Seal	2013-14	Bose Institute Integrated Ph.D.	Pursuing integrated Ph.D. at Bose Institute
18.	Rajarshi Bardhan	2013-14	C.U. Microbiology	
19.	Karishma Biswas	2014-15	Pondicherry Univ. Microbiology	M.Sc, student at dept. of Biotechnology, C.U.
20.	Sk. Abdul Mohid	2014-15	Bose Institute Integrated Ph.D.	Pursuing integrated Ph.D. at Bose Institute
21.	Udita Acharya	2014-15	Bose Institute Integrated Ph.D.	Pursuing integrated Ph.D. at Bose Institute
22.	Raina Das	2014-15	Pondicherry Univ. Microbiology	
23.	Nilanjan Banerjee	2014-15	Bose Institute Integrated Ph.D.	Pursuing integrated Ph.D. at Bose Institute
24.	Ayesha Noor	2014-15	Presidency	M.Sc. student at

<i>Serial No.</i>	<i>Name</i>	<i>Academic year</i>	<i>Entrance Examination Qualified</i>	<i>Current Position</i>
			University Life Sciences	Dept. of Life Sciences, Presidency University
25	Shreya Ghosh	2014-15	IISER, Kolkata	M.Sc, student at dept. of Biotechnology, C.U.
26	Punnag Saha	2014-15	Pondicherry Univ. Microbiology	M.Sc, student at dept. of Biochemistry, C.U.

### 30. Student Progression

<i>Student Progression</i>	<i>Against % Enrolled</i>
UG to PG	100
PG to M. Phil.	Nil
PG to Ph.D.	80
Ph.D. to Post –Doctoral	-
Employed:	
• Campus Selection:	Nil
• Other than Campus recruitment:	20
Entrepreneurship/Self-employment	

### 31. Details Of Infrastructural Facilities:

- **Number of Titles in seminar Library:** Approx 300
- Internet facilities for Staff & Students
  - Number of computers with internet link 4
- Class rooms with ICT facility
  - Number of E-classrooms 2
  - Wi-Fi Hotspot
- **Laboratories**
  - 2 class room cum laboratories, one dedicated laminar work station
- **Important Instruments:**

<i>Name Of The Instrument</i>	<i>Cost (Year Of Purchase)</i>	<i>Model No</i>	<i>Brand</i>	<i>Name Of The Grant From Where It Was Purchased</i>
Cold centrifuge	Rs 80,000/- (2007-08)	C24BL	Remi	Govt. Grant
UV-Vis spectrophotometer	Yen 769000 2009-10	V 630	Jasco	Govt. Grant
(Protein purification system) Fraction collector with peristaltic pump and glass column	Rs 3,50,000 (2010-11)	DC 1000 (Fraction Collector) MP 1000 (Peristaltic pump)	Eyela	UGC-CPE
Freeze dryer with Rotary vane vacuum pump	Rs 3,00,000 (2012-13)	Not mentioned	Hahntech	DST-FIST



Name Of The Instrument	Cost (Year Of Purchase)	Model No	Brand	Name Of The Grant From Where It Was Purchased
Phase Contrast Microscope	Rs 4,20,000/- (2011-12)	Axio Lab A1	Zeiss	DST FIST
Gel Documentation system	Rs 2,99,640/- (2011-12)	MultiDocIt with M20 transilluminator	UVP	DBT STAR COLLEGE
Orbital Shaking Incubator	Rs 156981 (2010-11)	CIS-24BL	Remi	Govt. Grant
Canon 7D Camera unit with multiple lens adapter, tripod and filter etc.	Rs 3,14,00 (2012-13)	EOS 7D	Canon	UGC

### 32. Number Of Students Receiving Financial Assistance From College, University, Government Or Other Agencies:

Scheme	2010-11	2011-12	2012-13	2013-14	2014-15
Merit-cum-means Scholarship		01 (Rs.10800/-)			
Sitaram Jindal Scholarship				01 (Rs.2400/-)	
KANYASHREE PRAKALPA K-2					01 (Rs.25000/-)
Any Other		1 (DST-INSPIRE)		5 (DST-INSPIRE) 1 (Sitaram-Jindal)	

### 33. Details On Student Enrichment Programmes (Special Lectures / Workshops / Seminar) With External Experts :

Programme	2010-2011	2011-2012	2012-2013	2013-2014	2014-15
DBT STAR COLLEGE WORKSHOP		1 (3 day workshop on Protein purification 29.10.11-31.10.11)	2 a) 4 day Microbial synthesis and degradation of polyhydroxybutanoate (30 <sup>th</sup> October, 2012-2 <sup>nd</sup> November, 2012 b) 3 day workshop on Plasmid curing in bacteria by SDS and Ethidium Bromide (25.11.12-27.11.12)	1. A study of plant pigments by TLC and spectroscopy ; two day workshop (22 <sup>nd</sup> and 23 <sup>rd</sup> October, 2013) 2. Studies on Physico-biochemical and Microbiological status of dried spices of Jan-Bazaar, Kolkata' at Maulana Azad College in the Department of Microbiology for the undergraduate 1 <sup>st</sup> year Microbiology Honours students, 24 <sup>th</sup> November – 3 <sup>rd</sup> December, 2013.	1)“Screening of antimicrobial potential of natural products” organized by Department of Microbiology, Maulana Azad College held on 25 <sup>th</sup> -27 <sup>th</sup> August 2014. 2) “Kitchen microbes” Jan-Feb, 2015 By first year students
DBT STAR COLLEGE MEET YOUR		Dr. Debasish Bhattacharyya, Scientist, IICB, Kolkata		1) Dr. AmbikaCharan Banerjee, Corporate Advisor, East India Pharmaceutical Works	Dr. PradiptaSaha, Assistant Professor, Dept.

Programme	2010-2011	2011-2012	2012-2013	2013-2014	2014-15
PEERS ACTIVITY		Delivered a special lecture on protein purification		Limited interacted with the students on the topic 'Chemicals and Enzymes from Microorganisms: Biotechnological Approach' on 24/09/13. 2) Dr. Dipak Dasgupta, Senior Professor (Alumni of Maulana Azad College) Biophysics and Structural Biology Division, SINP interacted with the students on the topic 'Conversation with future bright Community of Biologists: An Introduction to few current trends in Biology' on 27.09.2013 3) Dr. Debashis Mukhopadhyay, Associate Professor, Structural Genomics Section, SINP interacted with students on the topic 'Application of Proteomics on Life Science Research' on 01.10.2013	of Microbiology, Burdwan University delivered a special lecture on Prokaryotic diversity is Unseen Majority: Introduction to principle, methods & techniques on 26 <sup>th</sup> Feb, 2015.
DBT STAR COLLEGE OUTREACH ACTIVITY					a) Taltala Boys High School, Kolkata has participated in an Outreach Initiative titled "Demonstration and Interactive Session on THE WORLD OF MICROBES conducted by the faculties and students b) M.Sc. students from All India Institute of Hygiene and Public Health, Salt Lake City, Kolkata, attended the

Programme	2010-2011	2011-2012	2012-2013	2013-2014	2014-15
					outreach programme "Laboratory demonstration session on Basic Microbiology, Biochemistry and Molecular Biology" conducted by the faculty members of the Dept. of Microbiology on 26/05/15.

### 34. Teaching methods adopted to improve student learning :

**ICT:** Facility installed in 2 classrooms.

**Industry visit:** 3

- Students of 3<sup>rd</sup> Year B.Sc (H) Microbiology visited State Dairy Farm, Haringhata , South 24 Parganas, West Bengal accompanied by three faculty members of the department in 2012.
- Students of 2<sup>nd</sup> and 3<sup>rd</sup> Year B.Sc. (H) Microbiology visited IFB agro industries at Noorpur, South 24 Pgs. West Bengal accompanied by four faculty members in 2015.
- Students of 2<sup>nd</sup> and 3<sup>rd</sup> year visited United Breweries, Kalyani, North 24 Pgs. Accompanied by four faculty members in 2011

**Laboratory visit:** 1

- 1<sup>st</sup> year and 2<sup>nd</sup> year students (2011-12 & 2012-13 batch) of Microbiology Hons. Visited the Variable Energy Cyclotron Centre facility at VECC, Saltlake as part of National Science Day Celebrations on 28<sup>th</sup> February, 2013.

**Peer meet:** 4 (As detailed in point no. 32)

**Field tour:** 4

Sunderbans in 2011, Deulti in 2013, Pujali in 2014, Raichak in 2015

**Student projects:** 7 (As detailed in point no. 32)

### 35. Participation in Institutional Social Responsibility (ISR) and Extension activities:

Programme	2010-11	2011-12	2012-13	2013-14	2014-15
NSS	Yes	Yes	Yes	Yes	Yes
Iftar	Yes	Yes	Yes	Yes	Yes
Water Quality analysis	Samples analysed from different college water supplies	Samples analysed from major Government Hospitals in Kolkata	Samples analysed from households Of both faculties and students.		Samples analysed from households Of both faculties and students.

**36. SWOC Analysis and Future Plans:**

<b>SWOC</b>	<b>Strength</b>	<b>Weakness</b>
	Recognition of a faculty member as a Ph.D. guide (C.U.) Faculties with different specializations all having Ph.D. Excellent student-teacher interpersonal relationship. Research infrastructure.	Inadequate number of permanent teaching staff and non-teaching staff. Acute space crunch for both classes and laboratories
	<b>Opportunities</b>	<b>Challenges</b>
	Support under DBT STAR College and DST-FIST scheme Students can work in short term interim research projects under faculty members. Faculties can upgrade their skills/learn new techniques under the UGC-CPE assisted Retraining of Teacher's Programme. Recognition of the department as a Ph.D. awarding centre, therefore students can carry out their Ph.D. thesis at this Department	Deteriorating condition of the lab walls, ceilings and furniture. Finite chances of transfer of faculty members to other government colleges.

**Future Plans:**

- Up-gradation to a PG department
- Establishment of a full-fledged research wing where students can 334nrol for Ph.D.
- Regularization of the Water Quality Analysis facility and Laboratory techniques as Certificate/Diploma courses

## EVALUATIVE REPORT OF THE DEPARTMENT OF PERSIAN

1. **Name of the Department : PERSIAN**
2. **Year of Establishment:** 1<sup>st</sup> July 1926
3. **Courses offered : UG : 3years PERSIAN (Honours) & 3years PERSIAN (General)**
4. **Names of Interdisciplinary courses and the departments/units involved:** Students of this department are involved in mandatory Environmental Sciences course (as prescribed by the University of Calcutta), which is interdisciplinary in nature.
5. **Annual/semester/choice based credit system (programme wise):**

Programme	Annual	Semester	Credit System
UG (PERSIAN (Honours))	1+1+1 (Under C.U)	No	No
UG (PERSIAN (General))	1+1+1 (Under C.U)	No	No

6. **Participation of the department in the courses offered by other departments/Institutions:**  
 Persian is offered as a General Subject for the following Honours subjects – English, Urdu, Islamic History & Culture, History, Philosophy and Bengali  
 In addition, the students of the department can choose MIL as Bengali/English/Urdu/Arabic and they can also opt any two subjects from English, Urdu, Islamic History & Culture, History, Philosophy and Bengali as their General course subjects
7. **Courses in collaboration with other universities, industries, foreign institutions, other institutions, etc.:** None

8. **Details of courses/programmes discontinued (if any) with reasons:** No.

9. **Number of Teaching posts:**

Name of the Post	Sanctioned	Filled
Professor	-	-
Associate Professors By CAS	Nil	Nil
Asst. Professors	Four (4)	Three (3)

10. **Faculty profile with name, qualification, designation, specialization, (D.Sc./D.Litt./Ph.D./ M.Phil.etc.,)**

Name	Qualification	Designation	Specialization	No. of years of experience	No. of Ph.D. Students guided for the last 4 years
Dr. Iftexhar Ahmed	M.A., B. Ed. Ph.D.	Assistant Professor	Modern & Classical Persian Language & Literature and old manuscripts reading Sufi literature (Amir Khusraw)	7 Years	None
Md. Shahid Jamil	M.A.	Assistant Professor	Modern & Classical Persian Language & Literature	6 Years	None
Syed Md. Iqbal Shah Alquadri	M.A.	Assistant Professor	Sufi Literature	3 Months	None

Name	Qualification	Designation	Specialization	No. of years of experience	No. of Ph.D. Students guided for the last 4 years
Umar Khayyam	M.A.	Part-Time Teacher	Modern Persian	8 Years	None
Dr. Husna Bano	M.A., Ph.D.	Part-Time Teacher	Modern Persian	4 Years	None
Teachers transferred / retired /changed service between the period 1 <sup>st</sup> April 2007 to September 2015					
Dr. Gholam Sarwar (Retired on 30.11.2012)	M.A. Ph.D.	Associate Professor	Classical & Modern Persian Language & Literature	30 Years	None

11. List of senior visiting faculty: None

12. Percentage of lectures delivered and practical classes handled (programme wise) by temporary faculty:

Programme	% classes taken by Part time teachers
UG PERSIAN ( HONOURS)	20%
UG PERSIAN (GENERAL)	No allotment

13. Student-Teacher Ratio (programme wise): (for academic year 2014-15)

Programme	Class	Ratio (Student: Teacher)
UG PERSIAN ( HONOURS)	1 <sup>st</sup> Year	9.2:1
	2 <sup>nd</sup> Year	5.6:1
	3 <sup>rd</sup> Year	8.8:1
UG PERSIAN (GENERAL)	1 <sup>st</sup> Year	30:1
	2 <sup>nd</sup> Year	25.4:1
	3 <sup>rd</sup> Year	23.8:1

14. Number of academic support staff (technical) and administrative staff; sanctioned and filled: None

15. Qualifications of teaching faculty with DSc/D.Litt./Ph.D/Mphil/PG.:

Serial No.	Name of Faculty	Designation	Qualifications
1	Dr. IFTEKHAR AHMED	Assistant Professor	M.A., B.Ed., Ph.D.
2	Md. Shahid Jamil	Assistant Professor	M.A.
3	S. Iqbal Shah Alqadri	Assistant Professor	M.A.
4	Umar Khayyam	Part-time Teacher	M.A.
5	Dr. Husna Bano	Part-time Teacher	M.A., Ph.D.

16. Number of faculty with ongoing projects from a) National, b) International funding agencies and grants received :

Name of Faculty	Title of Project	Funding Agency	Grant Received	Period
Dr. Iftekhar Ahmed	Rendering of Khurshid-i-Jahan Numa, a historiographical encyclopaedia into English.	Govt. of India National Library, Kolkata	Rs 25000/-	2011 to 2015 Continuing

Dr. Gholam Sarwar (Retired)	Rendering of Miraat-e-Madariya into English.	Govt. of India National Library, Kolkata	Rs 10000/-	2011 to 2015 Continuing
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17. Departmental projects funded by DST – FIST; UGC, DBT, ICSSR, etc.: NIL

18. Research Centre /facilities recognized by University: No

19. Publication: (List of publication per faculty from 2010-11 to 2014-15)

Name of the faculty	Number of papers published in Peer reviewed Journal	Number of publications listed in international Database	Monographs	Chapters in Books	Books edited	Books with ISBN	Citation index	SNIP	SJR	Impact factor	H index
Dr. Iftekhar Ahmed	04	-	-	04	-	01	-	-	-	-	-
Dr. Gholam Sarwar	01	-	-	-	-	01	-	-	-	-	-
Dr. Husna Bano	01	-	-	-	-	-	-	-	-	-	-

*Articles Published in different Periodicals and Magazines (without ISSN/ISBN):	
Dr. Iftekhar Ahmed	07
Mr. Iqbal Shah Alqadri	01
Dr. Gholam Sarwar	08
Umar Khayyam	01

20. Areas of consultancy and income generated: NONE

21. Faculty as members in a) National committees b) International Committees c) Editorial Boards...

Dr. Iftekhar Ahmed	Council member of Iran Society Kolkata, Life Member of Asiatic Society, Member of DABEER (A Research Journal of Lucknow).
Mr. Shahid Jamil	Life member of Iran Society, Life Member of Asiatic Society,
Mr. Iqbal Shah Alqadri	Life member of Iran Society, Kolkata.
Mr. Umar Khayam (Part-Time)	Life member of Iran Society
Dr. Husna Bano (Part-Time)	Governing Body Member of Hari Mohan Ghosh College, Metiaburuz,
DR. Gholam Sarwar (Retired)	Council member of Iran Society, Kolkata Life Member of Asiatic Society Member of board of editor of Indo-Iranica (A Research Journal of Iran Society, Kolkata).

22. Student projects:

- **Percentage of students who have done in-house projects including inter-departmental/ programme:** 100% students of the Undergraduate programme do a project on Environmental Science as mandatory Course work
- **Percentage of students placed for projects in organizations outside the institution i.e. in Research laboratories/Industry/ other agencies:** Nil

23. Awards/Recognitions received by faculty and students: MD. IRFAN, a 3<sup>rd</sup> year student, won the first prize in State Level Youth Athletic Meet in the year 2012.

**24. List of eminent academicians and scientists/visitors to the department:**

Name	Program Details	Date
Dr. Shamim Ahmed Alia University Kolkata	Persian in Bengal during British Rule	Feb, 2015
Dr. Mahmood Alam, IFLU. Hyderabad.	Invited Lectures	March, 2012-14 & 15
Dr. Jamshed Qamar, University of Ranchi.	Contribution of Maulana Azad to Persian Language &	Dec,2014 & March, 2015
Dr. Mohammad Kazim, Delhi University.	Invited Lectures	2010-15
Prof. Syed Hasan Abbas, Banaras Hindu University	“Nowruz in Iran” (Extension Lecture)	March, 2015
Nurul Hoda, A.P.Dept. Calcutta Madarrasah, Kolkata	Persian Studies in India (Extension Lecture)	September, 2014
Prof.(Captain) Dr. Sharf-e-Alam, Padmashree, Former VC, Maulana Mazharul Haque Arabic & Persian University, Patna.	Extension Lecture on Persian Language and Literature	16 <sup>th</sup> December, 2013
Dr. M. Mansoor Alam, Ex-member of W.B.P.S.C.	Moral Teaching in Persian (Extension Lecture)	December 2012
Prof. Dr. Md. Iqbal, Jamia Millia Islamia, New Delhi.	Extension Lecture on Persian Language and Literature	January, 2010
Dr. Ismail Zohdi, Tehran University, Iran.	Special Lectures on Poet Saadi Sherazi	Sep, 2010
Prof. Sawood Alam Qasimi, Dean of Sunni Theology, Aligarh Muslim	Invited Lectures	Feb, 2010
Dr. Md.Nadeem, Jamia Millia Islamia, New Delhi.		Sep, 2010

**25. Seminars/Conferences/Workshops organized & the source of funding:** none**26. Student profile programme/course wise:**

Name of the Course/ programme	Applications received	Selected				% Passed
			M	F	Minorities	
B. A. Hons (entry year 2010)	45	25	17	08	25	99%
B. A. Hons (entry year 2011)	53	29	17	12	29	98%
B. A. Hons (entry year 2012)	87	45	15	30	45	92%
B. A. Hons (entry year 2013)	48	27	10	17	27	90%
B. A. Hons (entry year 2014)	69	44	25	19	44	90%
B. A. Gen. (entry year 2010)	200	115	45	70	115	85%
B. A. Gen. (entry year 2011)	220	101	36	65	101	88%
B. A. Gen. (entry year 2012)	257	120	46	74	120	82%



B. A. Gen. (entry year 2013)	336	126	55	71	126	95%
B. A. Gen. (entry year 2014)	354	150	58	92	150	Appeared

### 27. Diversity of Students:

Name of the Course	% of students from the same state	% of students from other States	% of students from abroad
B.A. Honours 2010-11 batch	90%	10%	Nil
B.A. Honours 2011-12batch	90%	10%	Nil
B.A. Honours 2012-13 batch	90%	10%	Nil
B.A. Honours 2013-14 batch	90%	10%	Nil
B.A. Honours 2014-15 batch	90%	10%	Nil
B. A. Gen. 2010-11 batch	95%	5%	Nil
B. A. Gen. 2011-12batch	94%	6%	Nil
B. A. Gen. 2012-13 batch	93%	7%	Nil
B. A. Gen. 2013-14 batch	90%	10%	Nil
B. A. Gen. 2014-15 batch	92%	8%	Nil

### 28. How many students have cleared national and state competitive examinations such as NET, SLET, GATE, Civil services, Defence services, etc.

Total 07 (Seven) have qualified NET

### 29. Student progression:

Student progression	Against % enrolled
UG to PG	80 %
PG to M.Phil.	-
PG to Ph.D.	10 %
Ph.D. to Post-Doctoral	-
<b>Employed</b>	
• Campus selection	NIL
• Other than campus recruitment	40 %
Entrepreneurship/Self-employment	50%

### 30. Details of Infrastructural facilities:

- Library:** The Departmental Seminar Library has 150 books for the undergraduate studies.
- Internet facilities for Staff & Students:**
  - Internet is available for the faculty in the General Staff Room.
  - The students access the internet from the College Library.
- Class rooms with ICT facility: None
- Laboratories:** Not Applicable

**31. Number of students receiving financial assistance from college, university, government or other agencies:**

Scheme	2010-11	2011-12	2012-13	2013-14	2014-15
CPE GRANT (SC/ST/OBC) Non Creamy Layer & Minority Girls	-	-	04 + 03 (Gen) (Rs.18200/- + Rs.13650/-)	-	-
Kanyashree Prakalpa K-2	-	-	-	14 (Rs.350000/-)	12 (Rs.300000/-)
Student Aid Fund	-	01 + 06 (Gen) (Rs.900/- + Rs.5237/-)	10 + 14 (Gen) (Rs.4450/- + Rs.8455/-)	-	-

**32. Details on student enrichment programmes (special lectures/workshops/seminar) with external experts :** (for detail please see SI No.-24)**33. Teaching methods adopted to improve student learning:** Interactive mode is adopted**34. Participation in Institutional Social Responsibility (ISR) and Extension activities Students of the department are active in :**

- i) The National Service Scheme (NSS)
- ii) Campus cleaning drive
- iii) Women empowerment initiatives
- iv) Gender sensitization program
- v) Consumer awareness program

**35. SWOC analysis of the department and Future plans:**

<p><b>Strength:</b> All teachers are well qualified. They are well aware of modern Persian Language and literature. They are capable to read the Old Persian manuscript. The students passed out from this department are engaged in different professional courses and getting</p>	<p><b>Weakness:</b> No separate room allotted. No dedicated language laboratory</p>
<p><b>Opportunities:</b> There are scopes and opportunities for Persian Students in different academic and non academic fields.</p>	<p><b>Challenges:</b> No infrastructure to see the Iranian film to promote and propagate the Persian language and literature. No Professor posts. • No representation in UG Board of Studies from this College No provision for Doctoral Supervision</p>

## EVALUATIVE REPORT OF THE DEPARTMENT OF PHILOSOPHY

1. Name of the Department : **PHILOSOPHY**

2. Year of Establishment: **1926**

3. Names of Programmes/Courses offered (UG, PG, M.Phil.,Ph.D., Integrated Masters; Integrated Ph.D.,etc.) :

- UG: B.A. Philosophy Honours and General

4. Names of Interdisciplinary courses and the departments/units involved: All students are involved in ENVIS course work, which is interdisciplinary in nature.

5. Annual/semester/choice based credit system (programme wise)

Program	Annual	Semester	Credit System
<b>BA Honours in Philosophy (1+1+1 Years)</b>	1+1+1 Examination System of the University of Calcutta	No	No

6. Participation of the department in the courses offered by other departments/Institutions:

Students of the Department of Bengali, Urdu, History, Islamic History & Culture, Arabic, Persian, Sanskrit, Sociology, and Political Science take Philosophy as General optional subjects. Philosophy Honours student take up Compulsory English, MIL as English/ Bengali/ Urdu, History, Islamic History & Culture, Arabic, Sanskrit, Sociology, and Political Science as their General optional subjects.

7. Courses in collaboration with other universities, industries, foreign institutions, other institutions: Nil

8. Details of courses/programmes discontinued (if any) with reasons: Nil

9. Number of Teaching posts:

	<i>Sanctioned</i>	<i>Filled</i>
Professors	-	-
Associate Professors	04	01 (through CAS)
Assistant Professors		03

10. Faculty profile with name, qualification, designation, specialization, (D.Sc./D.Litt./Ph.D./ M.Phil. etc.):

Name	Qualification	Designation	Specialization	No. of years of experience	No. of Ph.D. Students guided for the last 4 years
<b>Smt. Anuradha Sen</b>	M.A.	Assoc. Prof.	Philosophy of The Nyaya-Vaisesikas School	28	NIL
<b>Dr. Sanghamitra Dasgupta</b>	M.A., Ph.D.	Asst. Prof.	Social-Political Philosophy	13	NIL

Name	Qualification	Designation	Specialization	No. of years of experience	No. of Ph.D. Students guided for the last 4 years
<b>Dr. Madhuchhanda Bhattacharyya</b>	M.A., Ph.D.	Asst. Prof.	Logic: Philosophy and Application (Indian & Western)	13	NIL
<b>Dr. Suparna Mitra</b>	M.A., M. Phil., Ph.D.	Asst. Prof.	Philosophy of The Nyaya School	13	NIL
Teachers transferred or retired or changed service between the period 1 <sup>st</sup> April 2010 to September 2015					
DR APARNA BANERJEE	M.A., Ph.D.	Associate Prof. (Left Service)	Methodology	16	Nil
SMT. ARPITA NEOGI (SENGUPTA)	M.A., M.Phil	Associate Prof. (Transferred)	Logic	29	Nil
SMT NANDITA BAGCHI	M.A., Ph.D.	Associate Prof (Selection Grade) (Transferred)	Feminist Epistemology	26	Nil
DR ADITI DASGUPTA	M.A., Ph.D.	Asst. Prof. (Left Service)	Social Political	9	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):**

Programme	Year	Ratio	
		Honours	General
UG	1 <sup>st</sup>	5 : 1	6.7 : 1
	2 <sup>nd</sup>	1 : 1	7.5 : 1
	3 <sup>rd</sup>	2.2 : 1	NA

**14. Number of academic support staff (technical) and administrative staff; sanctioned and filled:**

Nil

**15. Qualifications of Teaching Faculty with Dsc/D.Litt/Ph.D./M.Phil./PG.:**

Sl. No.	Name of Faculty	Qualifications
1	Smt. Anuradha Sen	M.A.
2	Dr. Sanghamitra Dasgupta	M.A., Ph.D.
3	Dr. Madhuchhanda Bhattacharyya	M.A., Ph.D.
4	Dr. Suparna Mitra	M.A., M. Phil., Ph.D.

**16. Number of faculty with ongoing projects from a) National, b) International funding agencies and grants received :**

<i>Name of Faculty</i>	<i>Title of Project</i>	<i>Funding Agency</i>	<i>Grant Received</i>	<i>Period</i>
Dr. Madhuchhanda Bhattacharyya	“Constructivism and Realism: Towards a Fusion Ontology”	UGC, (Ref. UGC (ERO) No.PHW-008/07-08 dt.21.2.08)	Rs. 45000/-	2010-12 (Completed)
Dr. Sanghamitra Dasgupta	“On the Concept of War: Just War and Unjust War in the Indian Political Thought.”	UGC-CPE, F.12-1/2008(NE/PE) dated 15.10.2010), Ref No( UGC/CPE/1058/2).	Rs. 21000/-	2010-12 (Completed)
Prof. Arpita Sengupta	Exploring the Social & ethical Context of Modern Medical Science Through the Enquiry into the Indigenous System of Medicine	UGC-CPE, F.12-1/2008(NE/PE) dated 15.10.2010), Ref No( UGC/CPE/1058/2).	Rs. 21000/-	2010-12 (Completed)

**17. Departmental projects funded by DST – FIST; UGC, DBT, ICSSR, etc.:** Nil

**18. Research Centre /facilities recognized by University:** NIL

**19. Publication: (List of publication from 2010-11 to 2014-15)**

Name of the faculty	Number of papers published in Peer reviewed Journal	Number of publications listed in international Database	Monographs	Chapters in Books	Books edited	Books with ISBN	Citation index	SNIP	SJR	Impact factor	H index
Smt. Anuradha Sen				01							
Dr. Sanghamitra Dasgupta				02	01	01					
Dr. Madhuchhanda Bhattacharyya	04			03							
Dr. Suparna Mitra	02			03		01					

**\*Articles Published in different Journals and Newspapers (without ISSN/ISBN):**

Smt. Anuradha Sen	05
Dr. Madhuchhanda Bhattacharyya	01
Dr. Suparna Mitra	03

**20. Areas of consultancy and income generated:** Nil

**21. Faculty as members in a) National committees b) International Committees c) Editorial Boards etc.**

<b>Dr. Madhuchhanda Bhattacharyya</b>	1. Life member, Indian Philosophical Association and Indian Philosophical Congress. 2. Member, Indian Social Philosophy Congress. 3. Member, <i>Societas Ethica</i> (European Society for Applied Ethics) 4. Assistant Editor, MAC Academic Journal of Languages & Social Sciences.
<b>Dr. Sanghamitra Dasgupta</b>	Editorial Board Member, MAC Academic Journal of Languages & Social Sciences.
<b>Dr. Suparna Mitra</b>	Editorial Board Member, MAC Academic Journal of Languages & Social Sciences.

**22. Student projects:**

- **Percentage of students who have done in-house projects including inter-departmental/ programme:** 100% students of the Undergraduate programme do a project on Environmental Science as mandatory Course work
- **Percentage of students placed for projects in organizations outside the institution i.e. in Research laboratories/Industry/ other agencies:** NIL

**23. Awards/Recognitions received by faculty and students:**

Received by The Faculties:

**Dr. Madhuchhanda Bhattacharyya** as Resource Person in:

- UGC sponsored State-Level seminar on Bharate Narir Abosthan: Prachin Jug Theke Aadhunik Jug (The Status & Condition of Women in India: From Ancient to Present Day) , organized by Dept. of History, Hooghly Mohsin College in Collaboration with Paschimbanga Itihas Samsad, 16<sup>th</sup> September, 2010.
- UGC sponsored State-Level seminar on The Works of Swamiji, organized by Prabhu Jagatbandhu College, Andul, Howrah, in Collaboration with R.K.M. Institute of Culture, Kolkata, 13<sup>th</sup> January, 2012.

**Dr. Suparna Mitra**

- Performed as Expert and presided the Selection Committee for the recruitment of Assistant teacher for The West Bengal Power & Development Corporation Limited ( A Government of West Bengal Enterprise) ,on 20.06.2014 & 02.07.2014 as per direction from the Director of Public Instruction & Ex-Officio Secretary, Govt. of West Bengal vide Memo No. ED-606/2014 dtd. 04.06.2014.
- Performed as Expert to select Guest Lecturer in the Dept. of Philosophy at Shibpur Dinobandhoo Institution (college) on 13.08.2014.

**Received by the Students:**

- Rosemary Deepika Gomes, presently a student of II year general Course has won the certificate of Appreciation on “Fight against Human Trafficking”, 2012
- Jeenia Rahaman, presently, a student of II year Hons. Course, has won the Certificate of Appreciation by Indian Red Cross Society in association with W.B. State Branch, Burdwan Dist., 2010.
- Rosemary Deepika Gomes, presently a student of II year general Course has won the Pramerica Spirit of Community Award (silver medal) for exceptional initiative in service to the community and stood top in student volunteers in the country, 2012.
- Jeenia Rahaman, presently, a student of II year Hons. Course, has participated and won the

certificate in Model Competition in Dist. Student Youth Science Fair, 2012 organized by Youth Services Dept, Govt. of WB in collaboration with Education Dept., Govt. of WB, WBS Council of Science & Technology & BITM.

- Nawaj Sharif Ahmed Molla, presently, a student of III year Hons. Course has won the certificate of participating in Socio-Economic and Caste Census, 2011 as Data Entry Operator.
- Abdul Karim Mondol, presently, a student of I year Hons. Course has won the certificate of participating in voluntary Blood Donation in State Blood Transfusion in Council, 2013.
- Apart from that many students participated and won medals in College Annual Sports.
- Contribution in Maulana Azad College Students' Magazine, 2015 by Arpita Bute, II-year Hons.

#### 24. List of eminent academicians and scientists/visitors to the department:

Sr. No.	Name	Affiliation	Details
1.	Prof. Dr.Tapan Kumar Chakraborty	Formerly, Professor, Department of Philosophy, Jadavpur University, Centre for Advanced Studies, Kolkata-32 Recently, Visiting Professor, Dept. of Philosophy, Presidency University, Kolkata	Invited Talk on Vedanta "Advaita Vedante Mahabakyer Tatparya Vichar" (Significance of Mahabakya in Advaita Vedanta)  11 <sup>th</sup> January, 2014

#### 25. Seminars/Conferences/Workshops organized & the source of funding:

Topic	Speakers	Funding Agency	Date
National Seminar on Visibility/ Invisibility : A Query into the Condition of "Women" in India	(i) <b>Prof. Amita Chatterjee</b> , Vice Chancellor, Presidency University. (ii) <b>Dr. Shefali Moitra</b> , Formerly Professor of Philosophy, Jadavpur University. (iii) <b>Dr. Priyambada Sarkar</b> , Professor of Philosophy, University of Calcutta (iv) <b>Dr. Sashi Motilal</b> , Associate Professor of Philosophy, Delhi University (v) <b>Dr. Tanika Sarkar</b> , Professor, Centre For Historical Studies, Jawaharlal Nehru University (vi) <b>Dr. Samita Sen</b> , Director, School of Women's Studies, Jadavpur University  (vii) <b>Sri. Subhas Ranjan Chakravarty</b> , Formerly Professor of History, Presidency College, Kolkata. (viii) <b>Dr. Debi</b>	UGC	21 <sup>st</sup> -22 <sup>nd</sup> February, 2011

	<p><b>Chatterjee</b>, Professor, Dept. of International Relations, Jadavpur University</p> <p>(ix) <b>Dr. Manabi Majumder</b>, Fellow, Centre For Studies in Social Sciences, Calcutta (CSSSC)</p> <p>(x) <b>Dr. Rajashree Basu</b>, Director, Centre for Women’s Studies, Rabindra Bharati University.</p> <p>(xi) <b>Dr. Moinak Biswas</b>, Reader, Department of Film Studies, Jadavpur University</p> <p>(xii) <b>Smt. Dolly Basu</b>, Theatre Personality.</p> <p>(xiii) <b>Mr. Ashoke Mukhopadhyay</b>, Theatre Personality.</p>		
Invited Talk On Vedanta “Advaita Vedante Mahabakyer Tatparya Vichar”	<b>Prof. Tapan Kr. Chakraborty</b>	CPE (UGC)	11 <sup>th</sup> January, 2014
On Stress Management “How to Raise Your Self-Esteem”	<b>Udita Baral</b> , Lecturer, Dept. of Psychology(Maharani Kashiswari College) & (ii) <b>Debjani Mitra</b> , Guest Lecturer(Jogamaya Devi College)	Contributory	21 <sup>st</sup> April, 2014
Invited talk on ‘Interreligious dialogue and environmental issues’ jointly with Dept. of Sociology	<b>Prof. George A. James</b> , University of North Texas	Contributory	24 <sup>th</sup> June, 2015

## 26. Student profile programme/course wise:

Name of the Course/ programme (refer question no. 4)	Applications received	Selected	Enrolled			
			M	F	Minorities	% Passed
B. A. Hons (entry year 2010)	135	25	11	14	18	100%
B. A. Hons (entry year 2011)	153	20	10	10	18	100%
B. A. Hons (entry year 2012)	155	29	12	17	27	100%
B. A. Hons (entry year 2013)	149	25	10	15	16	100%
B. A. Hons (entry year 2014)	165	20	07	13	14	100%

\*M=Male \*F=Female



**27. Diversity of Students:**

Name of the Course	% of students from the same state	% of students from other States	% of students from abroad
B.A. Honours 2010-11 batch	100	-	
B.A. Honours 2011-12batch	100	-	-
B.A. Honours 2012-13 batch	100	-	-
B.A. Honours 2013-14 batch	97	03	-
B.A. Honours 2014-15 batch	100	-	-

**28. How many students have cleared national and state competitive examinations such as NET, SLET, GATE, Civil services, Defence services, etc.: NIL****29. Student progression:**

Student progression	Against % enrolled
UG to PG	100%
PG to M.Phil.	-
PG to Ph.D.	-
Ph.D. to Post-Doctoral	-
<b>Employed</b>	
• Campus selection	Nil
• Off campus recruitment	10%
Entrepreneurship/Self-employment	5%

**30. Details of Infrastructural facilities:**

**Library:** Beside college central library, department possesses a **Departmental Seminar library**, presently comprising of **326 books** which includes university recommended text-books, reference books and books for higher-studies.

**Internet facilities for Staff & Students:** Internet is available for the faculty in the General Staff Room.

The students can access the internet from the College Library reading-room.

Department (both teachers & students) has the access to JSTOR, the online journal bank through DELNET-INFLIBNET from the central library of the college.

**Class rooms with ICT facility:** Nil

**31. Number of students receiving financial assistance from college, university, government or other agencies:**

Scheme	2010-11	2011-12	2012-13	2013-14	2014-15
Student Aid Fund		01 (Rs.2000/-)	02 (Rs.1255/-)		
KANYASHREE PRAKALPA K-2				05 (Rs.125000/-)	
CPE GRANT (SC/ST/OBC) Non Creamy Layer & Minority Girls				03 (Rs.13650/-)	

### 32. Details on student enrichment programmes (special lectures/workshops/seminar) with external experts:

- Workshop held on “How to Raise Your Self-Esteem”, Speakers: **Udita Baral**, Lecturer, Dept. of Psychology (Maharani Kashiswari College) & **Debjani Mitra**, Guest Lecturer (Jogamaya Devi College), 21<sup>st</sup> April, 2014.

### 33. Teaching methods adopted to improve student learning

- Classroom methods: Usually, we follow regular lecture method throughout the academic session. Need-based interaction is done through Tutorials and Remedial Coaching.
- ICT methods: Occasionally, teachers undertake some visual effects on student about their curriculum by taking the help of MS Power-point Presentation.
- Interactive modes: Group Discussion has been organized to make the subject more interesting
- Other participatory programmes:
  - Students are being encouraged to participate in Students’ seminar to make them confident about the curricula and to train them how to present in public audience.
  - Organized Students’ Seminar on “Plato’s Theory of Knowledge”, Nazrul Seikh, Samhita Ferdousi of 2<sup>nd</sup> Year Hons., 22<sup>nd</sup> Feb, 2014

### 34. Participation in Institutional Social Responsibility (ISR) and Extension activities Students of the department are active in :

#### i) The National Service Scheme (NSS):

- Suha Tahil, at present, a student of III year (Hons.) completed a period of 2years as NSS volunteer from 2010-11 and also attended NSS special camp.

#### ii) Campus cleaning:

- Rosemary Deepika Gomes, presently a student of II year general Course has participated in the Growing up Green Summer Camp conducted by the American Centre, 2012.

#### iii) Women empowerment initiatives etc.

- Sahina Parveen, a student of Hons. II year course presented a contribution entitled: Samaje Naarir Adhikaar’ (Right of Women in Society) in “*Batayan*”, Wall Magazine of Dept. Of Philosophy, Maulana Azad College.
- Many Students participated in the Workshop on “Awareness of Sexual Harassment & its Prevention” organized by Maulana Azad College, April 2013

### 35. SWOC analysis of the department and Future plans:

<p><b>Strength</b></p> <ul style="list-style-type: none"> <li>• 98% of all students are coming from Minority Community and many of them belong to socially and economically challenged background. Hence the department is consistently and religiously upholding the vision statement put forward by the college.</li> <li>• Students apart from their academic commitment participate generously in various co-curricular activities. Their participation in different social responsibilities is really enviable.</li> <li>• Publication of a biannual students’ magazine- <i>Batayan</i>- a thought sharing platform.</li> </ul>	<p><b>Weakness</b></p> <ul style="list-style-type: none"> <li>• <b>Infrastructural deficiency:</b> (a) Absence of college girls’ hostel is a significant hindrance for girl students coming from remote zones; (b) department lacks definite and properly equipped classroom; and (c) lack of space for smooth functioning of the department.</li> <li>• Considerable number of drop-outs</li> <li>• <b>General Weakness:</b> Application aspect of studying Philosophy is somehow not enough focused in the university curriculum.</li> </ul>
<p><b>Opportunities</b></p> <ul style="list-style-type: none"> <li>• <b>More research option both for faculties and students.</b> Faculties are capable of</li> </ul>	<p><b>Challenges</b></p> <ul style="list-style-type: none"> <li>• To maintain Academic quality and to create career building Awareness or high</li> </ul>

<p>rendering more in advanced research. Advanced and interested Students may be encouraged to carry out different academic assignments.</p> <ul style="list-style-type: none"> <li>• <b>Enrichment of Seminar library</b> and improvement of dual borrowing system. Special and separate book-grant may be sanctioned for both needy and advanced learners.</li> <li>• Involvement of Faculties in Student-counselling/ value-education programme.</li> </ul>	<p>ambition among the students are really challenging jobs for the department where majority of the students are coming from weaker financial background.</p> <ul style="list-style-type: none"> <li>• Faculties are in transferable service, thus stability is sometimes hampered.</li> <li>• To represent the subject in a more acceptable way and career oriented through workshops etc.</li> </ul>
<p><b>Future Plans</b></p> <ul style="list-style-type: none"> <li>• Enhancement of Tutorial classes and class tests to improve the quality of university results of the students.</li> <li>• Monitoring Attendance &amp; Regular Parent-Teacher Meeting for general awareness towards higher education.</li> <li>• More frequent visit of senior visiting Professors for Advanced learners.</li> <li>• Fully computerized catalogue for Seminar library.</li> <li>• Counselling for post-graduation and selection of their specialization in future education.</li> <li>• Permanent class-rooms and Departmental staff-room.</li> </ul>	

## EVALUATIVE REPORT OF THE DEPARTMENT OF PHYSICS

1. **Name of the Department:** PHYSICS
2. **Year of Establishment:** 1926
3. **Names of Programmes / Courses offered (UG, PG, M.Phil., Ph.D., Integrated Masters; Integrated Ph.D., etc.):** UG: B.Sc. HONOURS in Physics (1+1+1 Years) and

Physics is also offered as a General subject for the Students opting for the B.Sc. Honours course in Chemistry, Mathematics, Statistics & Microbiology during their 1<sup>st</sup> and 2<sup>nd</sup> year.

4. **Names of Interdisciplinary courses and the departments/units involved:** All students of this Department compulsorily attend Environmental Science classes, which are interdisciplinary in nature.
5. **Annual/ semester/choice based credit system (programme wise):** ANNUAL

Programme	Annual	Semester	Credit System
UG	√	No	No

6. **Participation of the department in the courses offered by other departments:** Our Department offers Physics as General subject for the students of the Department of Chemistry, Mathematics, Statistics and Microbiology.  
In addition, the students of the department can choose MIL as Bengali/English/Urdu/Arabic and they can also opt any two subjects from Chemistry, Mathematics and Statistics as their General course subjects.
7. **Courses in collaboration with other universities, industries, foreign institutions, etc.:** NIL
8. **Details of courses/programmes discontinued (if any) with reasons:** NIL
9. **Number of Teaching Posts:**

Post	Sanctioned	Filled
Professor	1	0
Associate Professor	9	1 (through CAS/Promotion)
Assistant Professor		7

10. **Faculty profile with name, qualification, designation, specialization, (D.Sc./D.Litt. /Ph.D./ M. Phil. Etc.,)**

Name	Qualification	Designation	Specialization	Years of Experience	No. of Ph.D. Students guided for last 4 years
Dr. Amitava Ghorai	M.Sc. Ph.D.	Associate Professor	Solid State Physics	27 years	Nil
Dr. Madhusudan Ghosh	M.Sc., Ph.D.	Assistant Professor	Radiophysics & Electronics	13 Years	Nil
Dr. Uttam Sinha Mahapatra	M.Sc., Ph.D.	Assistant Professor	Solid State Physics	13 Years	Nil

Name	Qualification	Designation	Specialization	Years of Experience	No. of Ph.D. Students guided for last 4 years
Dr. Sanjay Chattopadhyay	M.Sc., Ph.D.	Assistant Professor	Condensed Matter Physics	9 Years	Nil
Sri Debaprem Bhattacharya	M.Sc, B.Ed	Assistant Professor	Electronics	5.5 Years	Nil
Dr. Somdeb Chakraborty	M.Sc., Ph.D.	Assistant Professor	High Energy Physics	6 months	Nil
Sri Apurba Kheto	M.Sc.	Assistant Professor	Particle Physics	6 months	Nil
Sri Abhishek Dey	M.Sc.	Assistant Professor	Particle Physics	6 months	Nil
Dr. Sasanka Sekhar Mandal	M.Sc., Ph.D.	Part-time Teacher	Solid State Physics	35 Years	Nil
Dr. Babul Kanti Dutta	M.Sc., Ph.D.	Part-time Teacher	Solid State Physics	42 Years	Nil
Dr. Subhas Chandra Kar	M.Sc., Ph.D.	Part-time Teacher	Particle Physics	41 Years	Nil
Dr. Santanu Dutta	M.Sc., Ph.D.	Part-time Teacher	Nuclear Physics	19 Years	Nil
Srimati Indrani Roy	M.Sc.	Part-time Teacher	Electronics	13 Years	Nil
<i>Teachers Transferred Or Retired Between The Period 1<sup>st</sup> April 2007 To September 2015</i>					
Dr. Debasish Sen	M.Sc., Ph.D.	Associate Professor	Quantum Mechanics		1
Dr. Siddhartha Bhowmick	M.Sc., Ph.D.	Associate Professor	Numerical Methods		Nil
Dr. Samar Chattopadhyay	M.Sc., Ph.D.	Assistant Professor	Solid State Physics		Nil
Dr. Bhaskar De	M.Sc., Ph.D.	Assistant Professor	Nuclear Physics		Nil
Dr. Prabuddha Sanyal	M.Sc., Ph.D.	Assistant Professor	Condensed Matter Physics		Nil

### 11. List of Senior Visiting Faculty:

- (i) Dr. Debasish Sen, Ex Head, Dept. of Physics, Maulana Azad College

### 12. Percentage of Lectures Delivered and Practical Classes Handled (Programme wise) by Temporary Faculty:

Programme	Temporary Faculty	% Classes Taken
UG	Guest Teachers	On requirement
	Part Time Teachers	Hons: 25%

### 13. Student –Teacher Ratio (Programme wise):

Course	Class	Ratio
UG	1 <sup>st</sup> Year	Honours: 4:1, Gen: 7:1
	2 <sup>nd</sup> Year	Honours: 4:1, Gen: 7:1
	3 <sup>rd</sup> Year	Honours: 4:1, Gen: 7:1

**14. Number of academic support staff (technical) and administrative staff; sanctioned and filled:**

Category of support staff	Sanctioned	Filled	Vacant
Group D	4	3	1

**15. Qualifications of teaching faculty with D.Sc/D.Litt/Ph.D/M.Phil/PG.**

Sl. No.	Name	Designation	Degree
1	Dr. Amitava Ghorai	Associate Professor	M.Sc. Ph.D.
2	Dr. Madhusudan Ghosh	Assistant Professor	M.Sc., Ph.D.
3	Dr. Uttam Sinha Mahapatra	Assistant Professor	M.Sc., Ph.D.
4	Dr. Sanjay Chattopadhyay	Assistant Professor	M.Sc., Ph.D.
5	Sri Debaprem Bhattacharya	Assistant Professor	M.Sc, B.Ed
6	Dr. Somdeb Chakraborty	Assistant Professor	M.Sc., Ph.D.
7	Sri Apurba Kheto	Assistant Professor	M.Sc.
8	Sri Abhishek Dey	Assistant Professor	M.Sc.
9	Dr. Sasanka Sekhar Mandal	Part-time Teacher	M.Sc., Ph.D.
10	Dr. Babul Kanti Dutta	Part-time Teacher	M.Sc., Ph.D.
11	Dr. Subhas Chandra Kar	Part-time Teacher	M.Sc., Ph.D.
12	Dr. Santanu Dutta	Part-time Teacher	M.Sc., Ph.D.
13	Smt. Indrani Roy	Part-time Teacher	M.Sc.

**16. Number of faculty with ongoing projects from a) National b) International funding agencies and grants received:**

Name of the faculty	Funding agency	2010-11 (Title of the project with sanction)	2011-12 (Title of the project with sanction no. and outlay)	2012-13 (Title of the project with sanction no. and outlay)	2013-14 (Title of the project with sanction no. and outlay)	2014-15 (Title of the project with sanction no. and outlay)
Dr. Uttam Sinha Mahapatra	DST		Relativistic study of the excited/ionized states of heavy atoms using coupled cluster based linear response theory. (DST Sanction letter No. SR/S1/PC-61/2009-II(G) dated 19.07.2011)	continuing	continuing	Completed on March 15
Dr. Sanjay Chattopadhyay	UGC		A study on nanosized CMR manganites" (PSW-130/10-11 dated 01.11.2011)MRP Rs. 177000/-	continuing	continuing	completed

Name of the faculty	Funding agency	2010-11 (Title of the project with sanction)	2011-12 (Title of the project with sanction no. and outlay)	2012-13 (Title of the project with sanction no. and outlay)	2013-14 (Title of the project with sanction no. and outlay)	2014-15 (Title of the project with sanction no. and outlay)
Dr. Madhusudan Ghosh	UGC				'Jitter reduction and design dependent dynamics of carrier/ clock recovery circuit' PSW-058/13-14 dated 18 <sup>th</sup> March, 2014 Rs. 450000/-	continuing
Sri Debaprem Bhattacharya	UGC				Monte-Carlo studies of atoms, PSW-057/13-14 dated 18 <sup>th</sup> March, 2014 Rs. 200000/-	continuing

**17. Departmental projects funded by DST-FIST; UGC, DBT, ICSSR, etc. And total grants received:**

Year of Report	Funding Agency	Scheme	Grant amount	Details
2011 – 12	UGC	CPE assistance	50000.00	Non recurring
2011-12	DBT	DBT Star College	700000.00	Recurring grant & Non recurring
2012-13	DST	FIST	298000.00	Instrument + Book grant SR/FIST/College-013/2010/29.5.12
2013 – 14	UGC	XII Plan 1 <sup>st</sup> Inst.	45000.00	WC2-081/12-13/ERO/303/13
2014 – 15	DBT	Project, Hands-on-Training	190000.00	Recurring grant

**18. Research Centre /facility recognized by the University:** Calcutta University, (Dr. Amitava Ghorai, HOD, Physics, recognized as Ph.D. Supervisor by the CU).

**19. Publications:** (List of publication per faculty from 2010-11 to 2014-15)

Name of the faculty	Number of papers published in Peer reviewed Journal	Number of publications listed in international Database	Monographs	Chapters in Books	Books edited	Books with ISBN	Citation index	SNIP	SJR	Impact factor	H index
Dr. Amitava Ghorai	11	10	-	-	-	5	-	-	-	-	-
Dr. Madhusudan Ghosh	07	05	-	-	-	-	-	-	-	-	-
Dr. Uttam Sinha Mahapatra	28	28	-	-	-	01	-	-	-	-	-
Dr. Sanjay Chattopadhyay	09	09	-	-	-	-	-	-	-	-	-
Sri Debaprem Bhattacharya	01	-	-	-	-	-	-	-	-	-	-
Dr. Somdeb Chakraborty	09	09	-	-	-	-	-	-	-	-	-
Sri Apurba Kheto	02	02	-	-	-	-	-	-	-	-	-
Sri Abhishek Dey	01	01	-	-	-	-	-	-	-	-	-
Dr. Santanu Dutta (PTT)	01	-	-	-	-	-	-	-	-	-	-

**20. Areas of consultancy and income generated:** Nil**22. Faculty as members in a) National committees b) International Committees c) Editorial Boards...**

Dr. Amitava Ghorai	Life Member, I. A. C. S. Kol-32
Dr. Sanjay Chattopadhyay	Life Member, I. A. C. S. Kol-32
Dr. Debasish Sen	Chief Editor: MAC Journal of Basic and Applied Sciences

**22. Student Projects:**

- (a) **Percentage of students who have done in-house projects including inter-departmental/programme:**
- 100% students of the Undergraduate programme do a project on Environmental Science as mandatory Coursework.
  - Projects under DBT Star College Scheme: 25
- (b) **Percentage of students placed for projects in organizations outside the institution i.e. in research laboratories/Industry/other agencies:** 1 % (JBNSTS)

**23. Awards/Recognitions Received by Faculty and Students:**

- Dr. S. Chakraborty received Humboldt Fellowship, Germany in the year 2015.
- Dr. S. S. Mandal is a member of CSC, WB.
- One student received JBNSTS Fellowship.



- (iv) About 40 students receive Inspire Fellowships.
- (v) Student Publications:
- (I) MAC Journal of Basic and applied Sciences, 1 (1) 143-151, 2013 (ISSN – 2347-5366).
- (II) *Research Journal of Agriculture and Environmental Management* 3(9), 472-476, 2014

#### 24. List of eminent academicians and scientists/ visitors to the department:

Sr.No.	Name	Affiliation	Date
1	Prof. Dhiranjan Roy	Ex. H.O.D and Professor of Physics (Retd.), Jadavpur University	25.09.2010
2	Dr. Alope Sarkar	Howrah Bijoykrishna Girls' College	08.01.2011
3	Dr. D. P. Duari	Director, Birla Planetarium	15.01.2011
4	Prof. Arunava Chakrabarti	University of Kalyani	01.11.2011
5	Prof. Soumitra SenGupta	IACS, Kolkata	05.01.2012
6	Prof. Amitava Raychaudhuri	University of Calcutta	05.01.2012
7	Prof. Sunanda Banerjee	SINP, Kolkata	01.09.2012
8	Prof. Amitava Datta	IISER, Kolkata	01.09.2012
9	Prof. Dhruvaditya Mitra	Nordic Inst of Theo Phys Stockholm	19.01.2013
10	Prof. Dhiranjan Roy.	Jadavpur University	29.01.2013
11	Prof. Padmanabha Dasgupta	Kalyani University	23.02.2013
12	Prof. S. K. Roy	Jadavpur University	25 <sup>th</sup> , 27 <sup>th</sup> , 29 <sup>th</sup> Nov. 2013
13	Prof. B. K. Chakrabarty	Director, SINP	02.12.2013
14	Prof. Indrani Bose	Bose Institute	14.03.2014
15	Prof. Pradip Majumdar	Rabindra Bharati University	16.08.2014
16	Prof. Pratip Kumar Mukherjee	SNBNCBS, Kolkata	07.02.2015
17	Prof. Asimananda Goswami	FRENA, SINP, Kolkata	26.02.2015
18	Prof. Debnarayan Jana	University of Calcutta	26.02.2015
19	Dr. Arnab Hazra	IEST, Howrah	27.02.2015
20	Prof. S. K. De	IACS, Kolkata	27.02.2015

#### 25. Seminars/ Conferences/Workshops organized & the source of funding

##### (a) National:

Topic	Speaker	Funding	Date
Taming a series: Applications to some physical problems	Prof. Dhiranjan Roy	DBT	25.09.2010
Research project initiated with undergraduate laboratory equipments – an experience to share with	Dr. Alope Sarkar	DBT	08.01.2011
Recent Claim of a New Particle state at LHC, CERN	Prof. Sunanda Banerjee	DBT	01.09.2012
Why the Higgs Boson is so Important?	Prof. Amitava Datta	DBT	01.09.2012
Planet formation: An introduction	Prof. Dhruvaditya Mitra	DBT	19.01.2013
Projectile Motion with linear and quadratic Damping in a constant Gravitational field.	Prof. Dhiranjan Roy	DBT	29.01.2013

Topic	Speaker	Funding	Date
Unification of Electromagnetic and Weak Interactions	Prof. Padmanabha Dasgupta	DBT	23.02.2013
An Introduction to Monte Carlo Methods	Prof. S. K. Roy	DBT	25 <sup>th</sup> 27 <sup>th</sup> 29 <sup>th</sup> Nov.13
Biological Physics: A Search for Physical Principles	Prof. Indrani Bose	DBT	14.03.2014
Indian Contribution to Mathematics from Ancient to Medieval times	Prof. Pradip Majumdar	DBT	16.08.2014
'Smart materials, the new cutting edge technology'	Prof. Pratip Kumar Mukherjee	DBT	07.02.2015
Did you know that we won't be here but for Nuclear Physics	Prof. Asimananda Goswami	DBT	26.02.2015
Dimensional analysis and Nanoscience	Prof. Debnarayan Jana	DBT	26.02.2015
Nanostructured Materials for Chemical Sensing Application.	Dr. Arnab Hazra	DBT	27.02.2015
Fundamental aspects of nanoscale materials	Prof. S. K. De	DBT	27.02.2015

(b) **International:** Nil

## 26. Student profile programme/course wise:

Name of the Course/programme	Application received	Selected	Enrolled		Pass percentage
			*M	*F	
B. Sc. Hons (entry Yr. 2010)	755	41	40	1	100
B. Sc. Hons (entry Yr. 2011)	1777	32	30	2	100
B. Sc. Hons (entry Yr. 2012)	1138	35	29	6	100
B. Sc. Hons (entry Yr. 2013)	1594	33	32	1	100
B. Sc. Hons (entry Yr. 2014)	1350	35	29	6	100

\*M=Male F=Female

## 27. Diversity of Students:

Name of the Course	% of students from the same state	% of students from other states	% of students from abroad
B. Sc. Hons. 2008-09	100	0	0
B. Sc. Hons. 2009-10	100	0	0
B. Sc. Hons. 2010-11	100	0	0
B. Sc. Hons. 2011-12	100	0	0
B. Sc. Hons. 2012-13	100	0	0
B. Sc. Hons. 2013-14	97	3	0
B. Sc. Hons. 2014-15	97	3	0

## 28. How many students have cleared national and state competitive examinations such as NET, SLET, GATE, Civil services, Defence services, etc.?

Phys. Hons Batch	JAM/JES	NET*	SLET*	GATE*	Civil	Defence
2013-14	7	-	-	-	-	-
2014-15	12	-	-	-	-	-

**29. Student Progression:**

	PG	M. Phil	Ph. D.*	P. D. F.	Employed	Other than campus recruitment	Entrepreneurships/ Self-employment
B. Sc. Hons. 2010-11	4	-	-	-	-	-	-
B. Sc. Hons. 2011-12	10	-	6	-	-	-	-
B. Sc. Hons. 2012-13	10	-	-	-	-	-	-
B. Sc. Hons. 2013-14	17	-	-	-	-	-	-
B. Sc. Hons. 2014-15	20	-	-	-	-	-	-

**30. Details of Infrastructural facilities:**

- (i) **Seminar Library:** (a) well equipped Seminar Library containing 500 books.  
(b) Digital resources: Computers, Laptops, Projector etc.
- (ii) **Internet facilities for Staff & Students:**  
(a) A modern computer Lab containing 14 pc with internet facility for staff and students.  
(b) Internet is available for the faculty in the Department Staff Room as well as the General Staff Room.  
(c) The students access the internet from the College Library.
- (iii) **Class rooms with ICT facility:** One class room with ICT facility; another under progress.
- (iv) **Laboratories:**  
(a) Well equipped 1<sup>st</sup>, 2<sup>nd</sup> and 3<sup>rd</sup> Year Honours lab  
(b) A small well equipped General Lab; extension work under progress.  
(c) One computer facility lab  
(d) A computer facility research lab for ongoing MRP by departmental faculty members (*dedicated as AZAD PHYSICS CENTER*)  
(e) A workshop is under progress.

**31. Number of students receiving financial assistance from college, university, government or other agencies:**

Scheme	2010-11	2011-12	2012-13	2013-14	2014-15
Merit-cum-means Scholarship	07 (Rs.75600/-)	05 (Rs.54000/-)	01 (Rs.10800/-)	04 (Rs.43200/-)	01 (Rs.10800/-)
CPE GRANT (SC/ST/OBC) Non Creamy Layer & Minority Girls			03 (Rs.13650/-)		
Sitaram Jindal Scholarship		01 (Rs.3600/-)	01 (Rs.4800/-)	01 (Rs.4800/-)	
Student Aid Fund		02 (Rs.2757/-)	01 (Rs.400/-)		
<b>Student Award</b>					
INSPIRE (Award)			08	14 (6 new)	18 (4 new)
JBNSTS			01	01 (continued)	01(continued)

### 32. Details on student enrichment programmes (special lectures / workshops / seminar) with external experts:

- (i) Students participate in DBT star college program which support “Catch them young” policy to motivate brilliant future generation in basic & applied science.
- (ii) Students also participate in different theoretical as well as hands-in training practical topics. They have learnt to use different types of modern equipments, which could open the avenue to work and learn in the field of science beyond the boundary of their prescribed syllabi. Students could listen and interact with renowned scholar & scientist of different research institute in various fields and acquainted with many modern concepts in basic and applied Sciences.
- (iii) Students are asked to express their opinion in writing about the programme and they submitted satisfactory comment & suggestion on DBT Star college programme.

### 33. Teaching methods adopted to improve student learning:

- (i) **ICT methods:** Power point, White and Black Board presentation
- (ii) **Interactive modes:** Class Room; personal and email interaction
- (iii) **Laboratory visit:** VECC, SINP, SNBNCBS, IACS, Science City
- (iv) **Student projects:** About 25 DBT projects have been done
- (v) **Student publications with teachers:**
  - (I) MAC Journal of Basic and applied Sciences, 1 (1) 143-151, 2013 (ISSN – 2347-5366).
  - (II) *Research Journal of Agriculture and Environmental Management* 3(9), 472-476,2014.
- (vi) **Student Seminar:**
  1. Aranya Mitra, 3<sup>rd</sup> Year Physics Honours; Department of Physics, Maulana Azad College; The concept of Negative Absolute Temperature in Thermodynamics; 26.09.2013 at 4 pm
  2. Shubham Dutta, 3<sup>rd</sup> Year Physics Honours; Department of Physics, Maulana Azad College; Equivalence principle in modern physics; 29.01.14 at 3.30 pm; Equivalence principle in modern physics.
  3. Saptarshi Das Gupta, 3<sup>rd</sup> Year Physics Honours; Department of Physics, Maulana Azad College; Looking into the Earth’s magnetic field; 26.08.14 at 3 pm
  4. Ilius Mondal, 3<sup>rd</sup> Year Physics Honours; Department of Physics, Maulana Azad College; Fibonncci series and the mystery of nature; 26.08.14 at 3.30 pm

### 34. Participation in Institutional Social Responsibility (ISR) and Extension activities:

- i) The National Service Scheme (NSS)
- ii) Campus cleaning drive
- iii) Women empowerment initiatives
- iv) Gender sensitization program
- v) Consumer awareness program

### 35. SWOC Analysis of the Department and Future Plans:

#### (i) *Strength of the Department:*

- (a) Additional fund of DBT and DST for buying sophisticated instruments.
- (b) Active engagement of teachers in research and development of new methodology of

teaching.

- (c) Students' participation in seminars and project works.

**(ii) Weakness:**

Lack of adequate space for Class rooms with ICT facility, laboratory, seminar room and infrastructural development.

**(iii) Opportunities:**

- (a) Sophisticated instruments even beyond Honours level.
- (b) Project works and Hands-on training to students through DBT workshops etc.
- (c) Training of students for learning MS Excel, MATLAB, Mathematica, graph drawing software like ORIGIN and SIGMA PLOT, DOS, WINDOW and LINUX based programs, LATEX, etc.

**(iv) Challenges:**

- (a) Lack of pest control etc.
- (b) Lack of maintenance of instruments.
- (c) Transfer policy often affecting teaching strength.

**(v) Future Plans:**

- (a) To provide single apparatus to a single student in practical classes.
- (b) To build Class rooms with ICT facility, incorporating audio visual aids and e-learning process on a broader sense.
- (c) To organize national/international seminar/symposium/workshop sponsored by UGC/DST/etc.
- (d) Encouraging teachers to improve the collaborative research work with different research institutes and universities they are already engaged in.
- (e) Achieving academic autonomy both in UG and PG.
- (f) Remodelling of computer room in order to accommodate more students and purchase of more desktop computers with LAN connections and accessories like UPS, printer, etc.
- (g) Purchase of more number of sophisticated instruments for the department such as CRO, Function generator, microprocessor, LASER apparatus, stable power stabilizers, interferometer, LCR Bridge, e/m measurement, alpha spectrometer, etc.
- (h) Encouraging students to give seminars and engage in project works for themselves. Students will be taken to educational excursions to different laboratories and institutions.
- (i) Opening of PG course in the department and proposal for more space for it.
- (j) Creation of Store Keeper post for proper maintenance of sophisticated instruments and proposal for proper store room.

**EVALUATIVE REPORT OF THE DEPARTMENT OF POLITICAL SCIENCE**

1. **Name of the Department:** Political Science
2. **Year of Establishment:** 1962
3. **Names of Programmes/Courses offered (UG, PG, M.Phil., Ph.D., Integrated Masters; Integrated Ph.D.,etc.):** UG: B.A. Honours and General in Political Science
4. **Names of Interdisciplinary courses and the departments/units involved:** All students of this department is involved in Compulsory Interdisciplinary course of Environmental Science
5. **Annual/semester/choice based credit system (Programme wise):**

Program	Annual	Semester	Credit System
B. A Honours in Political Science (1+1+1 Years)	1+1+1 Examination System of the University of Calcutta	No	No

**6. Participation of the department in courses offered by other Departments:**

- (i) Students of B.A. Honours in Political Science opt for Compulsory English, Bengali/English/Urdu as Modern Indian Language, History, Urdu, English, Islamic History, Economics, Bengali and Sociology as their auxiliary subjects in General Course during the 1<sup>st</sup> and 2<sup>nd</sup> year.
- (ii) Political Science as a General subject is opted by the Students of the B.A. Honours course in History, Urdu, English, Islamic History, Economics, Bengali and Sociology during their 1<sup>st</sup> and 2<sup>nd</sup> year study

**7. Courses in collaboration with other universities, industries, foreign institutions, other institutions, etc.:** Nil

**8. Details of courses/programmes discontinued (if any) with reasons:** None

**9. Number of Teaching Posts:**

	Sanctioned	Filled
Professors	NA	NA
Associate Professors	4	4 (through CAS)
Assistant Professors		Nil

**10. Faculty profile with name, qualification, designation, specialization, (D.Sc./D.Litt./Ph.D./ M.Phil. etc.,)**

Name	Qualification	Designation	Specialization	No. of years of experience	No. of Ph.D. Students guided for the last 4 years
Bikash Chandra Dutta	M.A	Associate Professor	International Relations	34 yrs	Nil
Dr. Manas Mukul Bandyopadhyay	M.A, M.Phil, Ph.D	Associate Professor	Socialist Thought	31 yrs	Nil

<i>Name</i>	<i>Qualification</i>	<i>Designation</i>	<i>Specialization</i>	<i>No. of years of experience</i>	<i>No. of Ph.D. Students guided for the last 4 years</i>
Alok Das	M.A, M.Phil	Associate Professor	Socialist Thought	29 yrs	Nil
Dr. Asis Kumar Basu	M.A, Ph.D	Associate Professor	International Relations	28 yrs	01
<b>Teachers transferred between the period 1<sup>st</sup> April 2010 to September 2015</b>					
Ranjan Ray	M.A	Associate Professor	Comparative Politics & Government	32 yrs	Nil
Dr. Barnana Guha Thakurta (Banerjee)	M.A. , Ph.D	Assistant Professor	Socialism: Theory and Practice	14 yrs	Nil

### 11. List of senior visiting faculty (since August 2014):

<i>Name</i>	<i>Designation</i>	<i>Specialization</i>
Dr. Dipika Mazumdar	Faculty (Retd.)	Sociology
Dr. Purabi Banerjee	Faculty (Retd.)	International Relations
Mr. Kamal Chakrabarti	Faculty (Retd.)	International Relations

### 12. Percentage Of Lectures Delivered And Practical Classes Handled (Programme- Wise) By Temporary Faculty:

<i>Programme</i>	<i>Temporary Faculty</i>	<i>% Classes Taken</i>
UG	Guest Teachers	33% (in the 3rd yr)
	Part Time Teachers	33% (Upto June 2014)

### 13. Student-Teacher Ratio (programme-wise)

<i>Course</i>	<i>Honours</i>	<i>Ratio</i>	<i>General</i>	<i>Ratio</i>
UG	First Year	6:1	First Year	12.1:1
	Second Year	7.6:1	Second Year	5.6:1
	Third Year	7.4:1	Third Year	4:1

### 14. Number of academic support staff (technical) and administrative staff; sanctioned and filled: Nil

### 15. Qualifications of teaching faculty with D.Sc./D.Litt./Ph.D./M.Phil/PG.:

<i>Sl. No.</i>	<i>Name of Faculty</i>	<i>Qualifications</i>
1	Mr. Bikash Chandra Dutta	M.A
2	Dr. Manas Mukul Bandyopadhyay	M.A, M.Phil, Ph.D
3	Mr. Alok Das	M.A, M.Phil
4	Dr. Asis Kumar Basu	M.A, Ph.D
5	Dr. Dipika Mazumdar (Guest)	M.A, Ph.D
6	Dr. Purabi Banerjee (Guest )	M.A, Ph.D
7	Mr. Kamal Chakrabarti (Guest )	M.A,

**16. Number of faculty with ongoing projects from a) National, b) International funding agencies and grants received :**

Name of Faculty	Title of Project	Funding Agency	Sanction Number	Grant Received	Period	Status
Dr. Manas Mukul Bandyopadhyay	“Administering Development (Through Democratic Decentralization) at the District level in West Bengal: A Study of Hooghly”	UGC	F.PHW-195/11-12(ERO) Dated:25.01.12	Rs. 71,000/-	10-3-2012 to 19-10-2012	Completed
	District Politics and Administration in W.B in communications perspective (Case study of Hooghly)	UGC	F.PHW-078/14-15(ERO) Dated:24.02.15	Rs. 1,25,000	2014-	Ongoing
Dr. Barnana Guha Thakurta	Autobiographies of Women Political Activists	UGC	MRP	Rs. 1,50,000	2014 to 2016	Ongoing
Mr. Alok Das (Co-researcher under CEMPD)	Negotiating Globalization: The World of Auto-Rickshaw pullers in Kolkata	ICSSR	RP02/0092/2008/RP	About Rs. 6 lakh	Submitted on 01-04-2011	Completed

**17. Departmental projects funded by DST - FIST; UGC, DBT, ICSSR, etc.: Nil**

**18. Research Centre /facilities recognized by University: Nil**

**19. Publication per faculty: (2010-15)**

Name of the faculty	Number of papers published in Peer reviewed Journal	Number of publications listed in international Database	Monographs	Chapters in Books	Books edited	Books with ISBN	Citation index	SNIP	SJR	Impact factor	H index
Dr. Manas Mukul Banerjee	1	-	-	1	-	-	-	-	-	-	-
Alok Das	1	-	-	4	-	-	-	-	-	-	-
Ranjan Roy	4	-	-	-	2	-	-	-	-	-	-
Dr Asis Kumar Basu	7	-	-	3	3	1	-	-	-	-	-

**20. Areas of consultancy and income generated: None**

**21. Faculty as members in a) National committees b) International Committees c) Editorial Boards...**

Professional organizations	Dr. Asis K Basu acted as joint co-coordinator of Second West Bengal Social Science Congress held in Hooghly Mohsin College in 2002
Editorial Boards	Dr. Asis K Basu (Academic Journal of Hooghly Mohsin College, Associate Editor from 2006-2009)



**22. Student projects:**

- **Percentage of students who have done in-house projects including inter-departmental/ programme:** 100% students of the Undergraduate programme do a project on Environmental Science as mandatory Course work
- **Percentage of students placed for projects in organizations outside the institution i.e.in Research laboratories/Industry/other agencies:** Nil

**23. Awards/Recognitions received by faculty and students:**

The students of the department participated in the Kolkata District Level West Bengal Youth Parliament competition and quiz contest, won the championship trophy at the district level Youth Parliament Competition, Awarded three individual prizes at the State level in 2011.

**24. List of Eminent Academicians and Scientists/Visitors to the Department:**

<i>Sr. No.</i>	<i>Name Of Eminent Academicians and Scientists/Visitors</i>	<i>Year</i>	<i>Purpose</i>
1	Prof. <b>Asok Kumar Mukhopadhyay</b> , Former Netaji Subhash Chandra Bose Chair Professor of CU <b>Justice Chittotosh Mukherjee</b> , Former Chief Justice, Mumbai High Court	12 <sup>th</sup> Jan 2010	Keynote address and speakers in the seminar on Administration, Politics and Society in Medieval India, 1206-1707
2.	<b>Justice Chittotosh Mukherjee</b> , Former Chief Justice, Mumbai High Court <b>Dr. Asok Kumar Mukhopadhyay</b> , Former Netaji Subhash Chandra Bose Chair Professor of CU <b>Shah Noor Ur Rahman</b> , NEHU <b>Dr. Chandika Basu Majumdar</b> , Tripura Central University <b>Dr. Pranab Kumar Chatterjee</b> , Former Director of State Archives, WB	24 <sup>th</sup> March 2012	Keynote address  Chairperson  Speakers in a UGC Sponsored National Seminar on : Maulana Abul Kalam Azad, A special seminar to celebrate 150 <sup>th</sup> birth anniversary of Swami Vivekananda

**25. Seminars/Conferences/Workshops organized & the source of funding:**

- **National :**

<b>Topic</b>	<b>Speaker</b>	<b>Funding</b>	<b>Date</b>
Seminar organized by the Department of Political Science along with the Dept. of Islamic History and Culture on <b>Administration, Politics and Society in Medieval India 1206-1707</b> . (Ed. Ranjan Kumar Ray, published by Maulana Azad College)	Prof. <b>Asok Kumar Mukhopadhyay</b> , Former Netaji Subhash Chandra Bose Chair Professor of CU <b>Justice Chittotosh Mukherjee</b> , Former Chief Justice, Mumbai High Court	UGC (approved allocation Rs. 1,40,000) Sanction No. CW-027/09-10	January 12, 2010

Topic	Speaker	Funding	Date
<p>Seminar organized by the Department of Political Science, Philosophy and History on <b>Visibility/Invisibility: An Enquiry into the conditions of women in India.</b></p>	<p>(i) <b>Prof. Amita Chatterjee</b>, Vice Chancellor, Presidency University.  (ii) <b>Dr. Shefali Moitra</b>, Formerly Professor of Philosophy, Jadavpur University.  (iii) <b>Dr. Priyambada Sarkar</b>, Professor of Philosophy, University of Calcutta  (iv) <b>Dr. Sashi Motilal</b>, Associate Professor of Philosophy, Delhi University  (v) <b>Dr. Tanika Sarkar</b>, Professor, Centre For Historical Studies, Jawaharlal Nehru University  (vi) <b>Dr. Samita Sen</b>, Director, School of Women's Studies, Jadavpur University  (vii) <b>Sri. Subhas Ranjan Chakravarty</b>, Formerly Professor of History, Presidency College, Kolkata.  (viii) <b>Dr. Debi Chatterjee</b>, Professor, Dept. of International Relations, Jadavpur University  (ix) <b>Dr. Manabi Majumder</b>, Fellow, Centre For Studies in Social Sciences, Calcutta (CSSSC)  (x) <b>Dr. Rajashree Basu</b>, Director, Centre for Women's Studies, Rabindra Bharati University.  (xi) <b>Dr. Moinak Biswas</b>, Reader, Department of Film Studies, Jadavpur University  (xii) <b>Smt. Dolly Basu</b>, Theatre Personality.  (xiii) <b>Mr. Ashoke Mukhopadhyay</b>, Theatre Personality.</p>	UGC	2011-12
<p>Seminar organized by the Department of Political Science along with the Dept. of Economics on <b>Maulana Abul Kalam Azad</b>,</p> <p>A special seminar organized by the department to celebrate the one fiftieth birth anniversary of Swami Vivekananda.</p>	<p><b>Justice Chittotosh Mukherjee</b>, Former Chief Justice, Mumbai High Court  <b>Dr. Asok Kumar Mukhopadhyay</b>, Former Netaji Subhash Chandra Bose Chair Professor of CU  <b>Shah Noor Ur Rahman</b>, NEHU  <b>Dr. Chandika Basu Majumdar</b>, Tripura Central University  <b>Dr. Pranab Kumar Chatterjee</b>, Former Director of State Archives, WB</p>	UGC(approved allocation Rs. 1,50,000) Sanction No. CW-193/11/12	2012-13

**26. Student Profile programme/course wise:**

Name of the Course/ Programme	Applications Received	Selected	Enrolled			
			M	F	Minorities	% Passed
B. A. Hons (entry year 2010)	369	38	21	17	14	90
B. A. Hons (entry year 2011)	237	47	11	36	44	88
B. A. Hons (entry year 2012)	242	49	14	35	43	94
B. A. Hons (entry year 2013)	258	54	13	41	47	96
B. A. Hons (entry year 2014)	247	44	16	28	40	89

\*M=Male \*F=Female

**27. Diversity of Students:**

Name of the Course	% of students from the same state	% of students from other States	% of students from abroad
B.A. Honours 2010-11 batch	98%	2%	Nil
B.A. Honours 2011-12batch	98%	2%	Nil
B.A. Honours 2012-13 batch	100%	Nil	Nil
B.A. Honours 2013-14 batch	100%	Nil	Nil
B.A. Honours 2014-15 batch	98%	2%	Nil

**28. How many students have cleared national and state competitive examinations such as NET, SLET, GATE, Civil services, Defence services, etc.: Nil****29. Student Progression:**

Student progression	Against % enrolled
UG to PG	40%
PG to M.Phil.	-
PG to Ph.D.	-
Ph.D. to Post-Doctoral	-
Employed	-
Employed: Campus selection	-
Entrepreneurship/Self-employment	-

**30. Details of Infrastructural facilities:**

- **Library:** Seminar Library with 140 books
- **Internet facilities for Staff & Students:**
  - ❖ Internet is available for the faculty in General Staff Room.
  - ❖ The students access the internet from the College Library.
- **Class rooms with ICT facility:** Nil
- **Laboratories:** *Not Applicable*

**31. Number of students receiving financial assistance from college, university, government or other agencies:**

Scheme	2010-11	2011-12	2012-13	2013-14	2014-15
Merit-cum-means Scholarship			01 (Rs.9000/-)		01 (Rs.9000/-)
Student Aid Fund	01	03	07		

Scheme	2010-11	2011-12	2012-13	2013-14	2014-15
	(Rs.900/-)	(Rs.2700/-)	(Rs.3555/-)		
Kanyashree Prakalpa K-2				10 (Rs.250000/-)	07 (Rs.175000/-)

**32. Details on student enrichment programmes (special lectures/workshops/seminar) with external experts:** Students participates in seminar conducted by the department & the college

**33. Teaching methods adopted to improve student learning:** Interactive mode is adopted

**34. Participation in Institutional Social Responsibility (ISR) and Extension activities Students of the department are active in :**

- i) The National Service Scheme (NSS)
- ii) Campus cleaning drive
- iii) Women empowerment initiatives
- iv) Gender sensitization program
- v) Consumer awareness program

**35. SWOC Analysis Of The Department And Future Plans:**

<p><b><u>Strength</u></b></p> <p>Department has senior teachers having teaching experience of more than 30 years. Three of them have PG teaching experience for a considerable period of time.</p> <p>Provision of seminar library</p> <p>Outside class interactions on academic, examination and career related matters.</p> <p>Offering remedial courses, organizing students seminars, parent-teachers meeting and initiating classroom quizzes for the enrichment of the students</p>	<p><b><u>Weakness</u></b></p> <p>Teachers - student ratio is not adequate.</p> <p>The department has no separate departmental room.</p>
<p><b><u>OPPORTUNITIES</u></b></p> <p>As social scientists the students can work under NGO and Govt. Projects.</p> <p>Students can take Politics as profession.</p> <p>They can also pursue as career Mass-media and journalism</p>	<p><b><u>CHALLENGES</u></b></p> <p>1. Political Science as a conventional subject appears to be no more viable in the face of intrusion from technical and vocational institutes.</p> <p>2. Since Political Science is not included in the school curriculum at the secondary level many good students do not feel encouraged to take the subject at the graduation level.</p> <p>3. lack of job opportunities.</p>

## EVALUATIVE REPORT OF THE DEPARTMENT OF SANSKRIT

1. **Name of the Department** : SANSKRIT
2. **Year of Establishment** : 1948
3. **Courses Offered** : UG : B.A. HONOURS in Sanskrit (1+1+1 Years) & B.A. General in Sanskrit (1+1 Years) of the University of Calcutta
4. **Names Of The Interdisciplinary Courses In Which The Department Is Involved:** All students are involved in Compulsory Interdisciplinary course of Environmental Science
5. **Annual /Semester/Choice Based Credit System (Programme Wise):**

Program	Annual	Semester	Credit system
B.A. Hons. Sanskrit (1+1+1 years)	1+1+1 Examination system of The University of Calcutta	No	No

6. **Participation of The Department in Courses Offered by Other Departments:**
  - (i) Students of B.A. Honours in Sanskrit opt for Compulsory English, Bengali/English/Urdu as Modern Indian Language, History, Urdu, English, Islamic History, Economics, Bengali and Philosophy as their auxiliary subjects in General Course during the 1<sup>st</sup> and 2<sup>nd</sup> year.
  - (ii) Sanskrit as a General subject may be opted by the Students of the B.A. Honours course in History, English, Islamic History, Economics, Bengali and Philosophy during their 1<sup>st</sup> and 2<sup>nd</sup> year study
7. **Courses in collaboration with other universities, industries, foreign institutions etc.:** No
8. **Details of Programme /Courses Discontinued(If Any) with Reasons:** None

9. **Number of Teaching Posts:**

Name of the Post	Sanctioned	Filled
Professors	Nil	Nil
Associate Professors	04	Nil
Asst. Professors		03

10. **Faculty Profile with Name, Qualification, Designation, Specialization (D.Sc./D.Litt./Ph.D./M.Phil etc.)**

Name	Qualification	Designation	Specialization	Number of Years of experience	No. of Ph.D. Students guide
<b>Dr. Onkar Nath Pathak</b>	Acharya (BHU), Ph.D	Assistant Professor	Paninian Grammar	14	Nil
<b>Sri Biswarup Mandal</b>	M.A.	Assistant Professor	Nyaya	9	Nil
<b>Sri Laxmi Narayan Rao</b>	M.A.,M.Phil.	Assistant Professor	Prachin Nyaya	1	Nil
<i>Ms. Jhiku Dey</i>	M.A. M.Phil.	<i>Part Time Teacher</i>	Kavya	5	Nil
<i>Ms. Rima Bharadwaj</i>	M.A.	<i>Part Time Teacher</i>	Kavya	5	Nil
<i>Ms. Dipika Das</i>	M.A.	<i>Part Time Teacher</i>	Vedanta	5	Nil

11. **List of Senior Visiting Faculty:** Nil

**12. Percentage of Lectures Delivered and Practical Classes Handled (Programme Wise) by Temporary Faculty:**

<i>Programme</i>	<i>Temporary Faculty</i>	<i>% classes taken (Hons. only)</i>
UG (B. A Honours in Sanskrit (1+1+1 Years) (2014-15)	Part Time Teachers	25%

NB. Sanskrit is offered as general subject though no student has opted since 2010.

**13. Student-Teacher Ratio (Programme Wise):**

<b>Programme</b>	<b>Class</b>	<b>Ratio (Student: Teacher) Hons.</b>	<b>Ratio (Student: Teacher) General</b>
UG: B.A. Honours + General in Sanskrit for academic year 2014-15	1 <sup>st</sup> Year	2: 1	Students do not opt for General course in Sanskrit
	2 <sup>nd</sup> Year	1.5 : 1	
	3 <sup>rd</sup> Year	2.2 : 1	

**14. Number of Academic Support Staff (Technical) and Administrative Staff; Sanctioned and Filled: Nil****15. Qualifications of Teaching Faculty with D.Sc./ D.Litt./ Ph.D./ M.Phil./PG.**

<i>Name</i>	<i>Qualification</i>	<i>Designation</i>
Dr. Onkar Nath Pathak	Acharya (BHU), Ph.D.	Assistant Professor
Mr. Biswarup Mandal	M.A.	Assistant Professor
Mr. Laxmi Narayan Rao	M.A. M.Phil.	Assistant Professor
MS. Jhiku Dey	M.A. M.Phil.	Part Time Teacher
MS. Rima Bharadwaj	M.A.	Part Time Teacher
MS Dipika Das	M.A.	Part Time Teacher

**16. Number Of Faculty With Ongoing Projects From A) National B) International Funding Agencies And Grants Received: Nil****17. Departmental Projects Funded By DST-FIST; UGC, DBT, ICSSR, Etc. And Total Grants Received: Nil****18. Research Centre /facility recognized by the University: None****19. Publications per faculty: (2010-15)**

<b>Name of the faculty</b>	<b>Number of papers published in Peer reviewed Journal</b>	<b>Number of publications listed in international Database</b>	<b>Monographs</b>	<b>Chapters in Books</b>	<b>Books edited</b>	<b>Books with ISBN</b>	<b>Citation index</b>	<b>SNIP</b>	<b>SJR</b>	<b>Impact factor</b>	<b>H index</b>
Dr. Onkar Nath Pathak	2	-	-	-	-	1	-	-	-	-	-
Mr. Biswarup Mandal	2	-	-	1	-	-	-	-	-	-	-

*Articles Published in different Journals and Newspapers (without ISSN/ISBN):	
Dr. Onkar Nath Pathak	1

20. Areas of consultancy and income generated : None

21. Faculty as members in National Committees/ International Committees etc.: None

22. Student Project:

a. Percentage of students who have done in-house projects including inter departmental/programme: 100% of UG Sanskrit honours final year students undertake project works on Environmental Studies.

b. Percentage of students placed for projects in organizations outside the institution i.e.in Research laboratories/Industry/other agencies: None

23. Awards/ Recognitions received by faculty and students : None

24. List of eminent academicians and scientists/ visitors to the department : None

25. Seminars/ Conferences/Workshops organized & the source of funding: None

26. Student profile programme/course wise:

Name of the Course/ Programme	Year	Applications Received	Selected	Enrolled		Pass percentage
				*M	*F	
UG	2011-12	35	17	14	3	100
	2012-13	25	12	7	5	100
	2013-14	33	9	5	4	100
	2014-15	35	3	2	1	100

(\*M=Male F=Female)

27. Diversity of Students:

Year	Name Of The Course	Student From The Same State (%)	Students From Other States (%)	Students From Abroad (%)
2010	UG	100	Nil	Nil
2011	UG	100	Nil	Nil
2012	UG	100	Nil	Nil
2013	UG	100	Nil	Nil
2014	UG	100	Nil	Nil

28. How many students have cleared national and state competitive examinations such as NET, SLET, GATE, Civil services, Defence services, etc.? Nil

29. Student Progression:

Student Progression	Against % Enrolled
UG to PG	70%
PG to M.Phil.	-
PG to Ph.D.	-
Ph.D. to Post-Doctoral	-
Employed	30%
• Campus selection	Nil
• Other than campus recruitment	Yes
Entrepreneurship/Self-employment	-

**30. Details of Infrastructural Facilities:**

- a) *Library*
- Number of Titles in seminar Library : 100
- b) *Internet facilities for Staff and Students* : Internet is available for the faculty in the General Staff Room. The students access the internet from the College Library.
- c) *Class rooms with ICT facility*
- Number of E-classrooms : None
  - Wi-Fi connectivity : No
- d) *Laboratories* : Not Applicable

**31. Number of Students Receiving Financial Assistance from College, University, Government or other Agencies:**

Scheme	2010-11	2011-12	2012-13	2013-14	2014-15
NHFDC	-	-	01 (Rs.10867/-)	-	-
Student Aid Fund	-	-	02 (Rs.2310/-)	02 (Rs.1800/-)	-
CPE GRANT (SC/ST/OBC) Non Creamy Layer & Minority Girls	-	-	01 (Rs.4550/-)	-	-

**32. Details on Student Enrichment Programmes (Special Lectures / Workshops / Seminar) With External Expert: None**

**33. Teaching Methods Adopted to Improve Student Learning :** Interactive mode is adopted

**34. Participation In Institutional Social Responsibility (ISR) And Extension Activities:**

- i) The National Service Scheme (NSS)
- ii) Campus cleaning drive
- iii) Women empowerment initiatives
- iv) Gender sensitization program
- v) Consumer awareness program

**35. SWOC Analysis and Future Plans:****⇒ Strength of the Department**

- On line Journal facility
- Rare books collections

**⇒ Weakness**

- No separate room allotted
- Reluctance among the students to take up Sanskrit as honours/general subject

**⇒ Opportunities**

- Interdisciplinary Language studies may result in collaborative projects.
- Students coming from different socio-cultural backgrounds would provide an excellent backdrop for growth of Sanskrit in this part of the country.
- Job experience and administrative exposures increase the acceptability of the faculty for higher job ambition at University level

**⇒ Challenges**

- Students not opting to pursue this language while other language options are there.
- To represent the subject more acceptable and career oriented through workshops etc.

**⇒ Future Plans:**

- Manuscripts editing & digitization
- To publish a departmental Magazine



## EVALUATIVE REPORT OF THE DEPARTMENT OF SOCIOLOGY

1. Name of the Department : **SOCIOLOGY**

2. Year of Establishment: **1988**

3. Names of Programmes/Courses offered (UG, PG, M.Phil., Ph.D., Integrated Masters; Integrated Ph.D.,etc.) : UG: B.A. Sociology Honours and General

4. Names of the Interdisciplinary Courses in which the Department is involved:  
All students are involved in Compulsory Interdisciplinary course of Environmental Science

5. Annual/semester/choice based credit system (programme wise):

Programme	Annual	Semester	Credit System
<b>B. A Honours in Sociology (1+1+1 Years)</b>	1+1+1 Examination System of the University of Calcutta	No	No

6. Participation of the department in the courses offered by other departments/Institutions:

- (i) Students of B.A. Honours in Sociology opt for Compulsory English, Bengali/English/Urdu as Modern Indian Language, Bengali, Urdu, English, Philosophy, Economics, History, and Islamic History as their auxiliary subjects in General Course during the 1<sup>st</sup> and 2<sup>nd</sup> year.
- (ii) Sociology as a General subject is opted by the Students of the B.A Honours course in Bengali, English, Urdu, Islamic History, History, and Philosophy during their 1<sup>st</sup> and 2<sup>nd</sup> year study.

7. Courses in collaboration with other universities, industries, foreign institutions, other institutions, etc.: Nil

8. Details of courses/ programmes discontinued (if any) with reasons: **None**

9. Number of Teaching Posts:

<i>Posts</i>	<i>Sanctioned</i>	<i>Filled</i>
<b>Professors</b>	0	NA
<b>Associate Professors</b>	4	2 (through CAS)
<b>Assistant Professors</b>		2

10. Faculty profile with name, qualification, designation, specialization, (D.Sc./D.Litt./Ph.D./ M.Phil.etc.), Data includes PTT/ Guest faculty:

Name	Qualification	Designation	Specialization	Years of Experience	No. of Ph.D Students guided for last 4 years
Dr. Samit Kar	Ph.D.	Associate Professor	Rural Sociology	26 Years	Nil
Dr. Debaprashad Chatterjee	Ph.D.	Associate Professor	Population Studies, Environmental Sociology	24 years	Nil

Name	Qualification	Designation	Specialization	Years of Experience	No. of Ph.D Students guided for last 4 years
Dr. Aditi Basu	Ph.D.	Assistant Professor	Stress-Management	16 Years	Nil
Mrs. Mahua Patra	MA	Assistant Professor	Development & Planning, Health & Illness	7 Years	Nil
Teachers transferred or retired between the period 2010 to Sep 2015					
Dr. Shampa Dutta Gupta	Ph, D	Associate Professor	Urban Sociology	26 Years	Nil
Dr. Madhumita Sen	Ph.D.	Associate Professor	Population Studies, Gender Studies	27 years	Nil
Mr. Arghya Sukul (Resigned)	MA	Part-Time Teacher,	Crime and Deviance, Information Society	6 years	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):

Programme	Year	Ratio (Hons.)	Ratio (General)
B.A. Honours in Sociology	1 <sup>st</sup>	8.25 : 1	14.25 : 1
	2 <sup>nd</sup>	9.75 : 1	8.75 : 1
	3 <sup>rd</sup>	9 : 1	

14. Number Of Academic Support Staff (Technical) And Administrative Staff; Sanctioned And Filled: Nil

15. Qualifications of teaching faculty with D.Sc./D.Lit./Ph.D./M.Phil./PG:

Serial No.	Name of Faculty	Qualifications
1	Dr. Samit Kar	MA, Ph.D.
3	Dr. Debaprashad Chatterjee	MA, Ph.D.
2	Dr. Aditi Basu	MA, Ph.D.
4	Prof. Mahua Patra	MA

**16. Number of faculty with ongoing projects from a) National, b) International funding agencies and grants received :**

Name of Faculty	Title of Project	Funding Agency	Grant Received	Period
Dr. Madhumita Sen	Review of the Old Age Care System and Possible Remedies	UGC, PHW/075/09-10ERO, 7.9.2009	Rs. 1,42,500/-	2009-11
Dr. Samit Kar	1. Implementing Rabindranath Tagore's words to deeds	Ministry of Culture, Govt. of India	Rs. 2 Lakh	2011-12
	2. The Emerging Scenario of Agri-business in India	Planning Commission of India	Rs. 4.96 Lakh	2012-13
Dr. Debaprashad Chatterjee	1. Worked as a Country Co-Investigator (India) of an international project funded by NSF, USA, entitled, 'Comparing Climate Change Policy Networks (COMPON): Effect of Advocacy Networks and Participation on Climate Change Policy Formation' with Professor Jeffrey Broadbent, the University of Minnesota, USA as the Principal Investigator from January 2007 to 2012.	NSF, USA	USD720,000 (Worked on expenses Reimbursement basis for Fieldwork etc.)	2008 – 2014 (worked till 2012)
Dr. Aditi Basu	Gender roles and stress differences: A study of professional couples.	UGC_CPE UGC/CPE/1058/5 Dt. 22.03.2011	Rs. 20,000/-	2011-12
	Stress and coping mechanism among middle school students.	UGC PHW-079/14-15 Dt. 02.02.15	Rs. 2,70,000/-	2015-17

**17. Departmental projects funded by DST - FIST; UGC, DBT, ICSSR, etc.:** Nil

**18. Research Centre /facilities recognized by University:** No

**19. Publication per Faculty:** (starting from 2010 to 2015)

Name of the faculty	Number of papers published in Peer reviewed Journals (National/International)	Number of publications listed in international Database*	Monographs	Chapter in Books	Books edited	Books with ISBN/ISSN	Citation index	SNIP	SJR	Impact factor	h-index
Dr. Samit Kar	3	-	-	-	11	11	-	-	-	-	-
Dr. Debaprashad Chatterjee	3	-	-	-	1	1	-	-	-	-	-
Dr. Aditi Basu	-	-	-	2	-	-	-	-	-	-	-
Mrs. Mahua Patra	3	-	-	2	-	-	-	-	-	-	-
Dr. Madhumita Sen	-	-	-	2	-	-	-	-	-	-	-
Dr. Arghya Sukul	1	-	-	4	-	-	-	-	-	-	-

**21. Areas of consultancy and income generated:** Nil**22. Faculty as members in a) National committees b) International Committees c) Editorial Boards ...**

Dr. Madhumita Sen	Regional Coordinator, UGC, Capacity Building of Women Managers in Higher Education Scheme Vice President, Sociological Association of West Bengal Member, RC14. Culture and Communication, Life Member, Indian Sociological Society.
Dr. Debaprashad Chatterjee	Treasurer, Sociological Association of West Bengal Executive Committee Member, Research Committee (RC) 11, Environment and Society, Indian Sociological Society (ISS) Treasurer, Adhoc Group, Mother and Motherhood, ISS Life Member, ISS Life Member, Indian Statistical Institute, Kolkata Member, International Sociological Association (ISA), Member of the Board of Governors, RC24 Environment and Society, ISA Governing Body and General Council Member, Bankim Bhaban Gabeshana Kendra, Department of Higher Education, Government of West Bengal Reviewer, International Sociology (Official Journal of ISA)

**23. Student Projects:**

- *Percentage of students who have done in-house projects including inter-departmental/programme:*
  - i) 100% students of the Undergraduate programme carry out a project on Environmental Studies as mandatory Course work.
  - ii) Dissertations - 100% students of the BA (Hons.) Part III Course submit dissertation paper, based on intensive field-work. This was also carried out by BA Part III (General) Course students till 2013.
- *Percentage of students placed in projects in organizations outside the institution, i.e. laboratories/industry/other agencies:* nil

**24. Awards/Recognitions Received By Faculty And Students:**

- Dr. Madhumita Sen (2010-12) was awarded Associateship of the UGC Inter-University Centre at the Indian Institute of Advanced Study, Simla.
- Dr. Debaprashad Chatterjee was awarded:
  - Fulbright-Nehru Visiting Lecturer Fellowship 2010-2011 to teach a one semester graduate and undergraduate combined special course titled, 'Comparing Environmental Concern: East versus the West (SOC 4950/5950)' at Oklahoma State University, Stillwater, USA during January to May 2011.
  - Fulbright Occasional Lecturer Fund award to travel to the University of Wisconsin at Madison, USA April 03-05, 2011 to deliver a lecture on "Globalization, Human Rights, and Agrarian Movements in Contemporary India."
  - Inclusion in the 2010 and 2011 Edition of Who's Who in the World.
- Md. Nafish, a first year (Honours) student, won the Governor's Silver Medal for best cadet in Air Force Division for performance in Republic Day Parade in New Delhi, 2015.
- Arjun Dutta was awarded a prize for directing and script-writing the Best Short Film, titled 'Maid for Each Other', in prestigious Calcutta Film Festival, 2012.
- Sreemoyee Guha, an outgoing BA Third Year student, won Silver and Bronze Medals at National Level Karate Competition in 2012.
- Roudrawal Dasgupta and Sharonno Banerjee received prizes for their performance in a Debate Competition organized by Saint Xavier's College, Kolkata in 2014.
- Arunima Dey stood First at the Sub-district Level Extempore Competition, 2012.
- Besides, many of our students like Pamela Choudhury, Mohana Sen, Suhena Deb, Debkalpa Basu Das are regularly engaged with different branches of Performing Arts such as Music, Dance, Drama etc. and receive several awards in recent years.

**25. List of eminent academicians and scientists/visitors to the department:**

<i>Name</i>	<i>Programs with details</i>
Professor George A James, Department of Philosophy, University of North Texas, USA	Visited Department as an Invited Speaker to deliver a lecture at a Seminar on 'Inter-religious Dialogue and Environmental Issues' jointly organized with the Department of Philosophy on 24.06.2015.
Sunanda Mukhopadhyay, Chairperson, Women's Commission, West Bengal	Visited Department as an Invited Speaker at a UGC-sponsored Seminar on Human Rights in Education and State: Issues and Concern, Feb 24-25, 2012.
Nazrul Islam, IPS	-DO-
Kalyan Rudra, noted River Expert, presently, presently Chairman, West Bengal Pollution Control Board	-DO-
Sujato Bhadra, noted Human Rights Activist	-DO-
Ratnabali Ray, psychologist and noted social activist	-DO-
Rajatsubhra Mukhopadhyay, Prof. in Sociology, North Bengal University	-DO-
Swami Thyagrupananda Maharaj, Principal Ramakrishna Vidyamandir, Belur	-DO-
Sanchari Roy Mukherjee, Professor in Economics, University of North Bengal	-DO-

<i>Name</i>	<i>Programs with details</i>
Supriyo Munshi, Secretary, Gandhi museum, Barrackpore	-DO-
Sandip Bandopadhyay, noted Child's Rights activist	-DO-
Brotindra Mallick, Advocate of Calcutta High Court	-DO-

#### 26. Seminars/Conferences/Workshops organized & the source of funding:

<i>Topic</i>	<i>Speakers</i>	<i>Funding Agency</i>	<i>Date</i>
Capacity Building of Women Managers in Higher Education; Management Skill Enhancement module Workshop	Prof. Susheela Kaushik, Co-chairperson, NCCE (Prof. Jaya Indiresan Module Author Dr. Vindhya Undurti Module Author, CGRP (West Zone – I & II) Prof. K. G. Uma Module Author 4. Dr. Rajesh Gill, Trainer Associate 5. Dr. Nisha Rana, Trainer Associate	UGC	January 07 – 11, 2013
Sensitivity/Awareness/Motivation (SAM) Workshop for Women Empowerment	1. Professor Padma Ramachandran, Core Group Resource Person 2. Professor Karuna Chanana, Core Group Resource Person 3. Professor Sarbani Chaudhury, Regional Coordinator 4. DR. Miratun Nahar, Ex. Member Women's Commission, West Bengal 5. Smt. Anuradha Talwar, Human Right Activist	UGC	22-26 March, 2010
On Human Rights Education	Nazrul Islam, IPS Sunanda Mukhopadhyay, Chair-person State Women's Commission Kalyan Rudra, Chair person State Pollution Control Board Prof. Rajat Subhara Mukhopadhyay Prof. Sanchari Roy Mukherjee Brotindra Mallick, Advocate, Calcutta High Court Sujato Bhadra, Human Rights Activist Supriyo Munshi, Secretary, Barrackpore Gandhi Memorial Sangrahalaya Swami Tyagrupananda Maharaj, Principal, RKM Vidyamandir, Belur. Sandip Bandyopadhyay, Child Rights Activist. Ratnabali Ray, Anjali (NGO)	HRE-UGC	February 24-25, 2012
'The Pre-Conception & Prenatal Diagnostic Techniques Act 1994'	Aparna Mazumder, Programme Officer Smriti Acharya-Programme Associate Amrita Bhaumik-Program Associate Bubai Dey-Field Associate	Organized in collaboration with CINI, Kolkata Urban Branch	10/09/15

**27. Student profile programme/course wise:**

Name of the Course/ programme	Applications received	Selected	Enrolled			
			M	F	Minorities	% Passed
B. A. Hons (entry year 2010)	306	30	12	18	2	100
B. A. Hons (entry year 2011)	157	30	18	7	9	100
B. A. Hons (entry year 2012)	182	30	11	25	15	100
B. A. Hons (entry year 2013)	205	33	10	29	15	100
B. A. Hons (entry year 2014)	213	35				100

\*M=Male \*F=Female

**28. Diversity of Students:**

Name of the Course	% of students from the same state	% of students from other States	% of students from abroad
B.A. Honours 2010-11 batch	100	Nil	Nil
B.A. Honours 2011-12batch	100	Nil	Nil
B.A. Honours 2012-13 batch	100	Nil	Nil
B.A. Honours 2013-14 batch	100	Nil	Nil
B.A. Honours 2014-15 batch	100	Nil	Nil

**29. How many students have cleared national and state competitive examinations such as NET, SLET, GATE, Civil services, Defence services, etc: NIL****30. Student Progression:**

Student progression	Against % enrolled
UG to PG	100
PG to M.Phil.	-
PG to Ph.D.	-
Ph.D. to Post-Doctoral	-
<b>Employed</b> Campus selection Other than campus recruitment	-
Entrepreneurship/Self-employment	-

**31. Details of Infrastructural facilities:**

- **Library:** Seminar Library with 300 books
- **Digital resources :** JSTOR access through DELNET - INFLIBNET
- **Internet facilities for Staff & Students**  
Internet is available for the faculty in the Department Staff Room as well as the General Staff Room. The students access the internet from the College Library.
- **Class rooms with ICT facility:** Nil
- **Laboratories :** Computer Laboratory in the Department

**32. Number of students receiving financial assistance from college, university, government or other agencies:**

Scheme	2010-11	2011-12	2012-13	2013-14	2014-15
Merit-cum-means Scholarship	-	-	01 (Rs.9000/-)	01 (Rs.9000/-)	-

**33. Details on student enrichment programmes (special lectures/workshops/seminar) with external experts :**

**34. Teaching methods adopted to improve student learning:**

- Classroom methods: Yes
- ICT methods: Yes, occasionally.
- Interactive modes: Yes
- Field tours: Yes
- Other participatory programmes: Participation with different NGOs through organizing Workshops.

**34. Participation in Institutional Social Responsibility (ISR) and Extension activities Students of the department are active in: (Please give details) Name of the student, event, date etc.**

- i) The National Service Scheme (NSS) .: Students involved
- ii) Campus cleaning: through NSS
- iii) Women empowerment initiatives: Yes

**35. SWOC analysis of the department and Future plans:**

⇒ **STRENGTH**

- Quest for knowledge about society is the common platform that draws the students and teachers together in this department. This department is really fortunate to have a nice blend of youth and wisdom in the composition of its faculty members.
- The faculty members here are well known in the domain of sociological knowledge, within the state and beyond, for their excellence in teaching and research.
- Faculty members are good friends of the student-folk here.
- Diversity of the students in terms of gender, religion and language makes our classroom an arena of cultural exchange and learning.
- Students exhibit multifaceted talents in this department.

⇒ **WEAKNESS**

- While major weaknesses of the department are attributable to the macro scenario and are more general or systemic in nature (i.e. significant disturbance in class schedule due to University examinations or lack of social awareness about 'less-rewarding' general education that is reflected in students' psyche leading to poor percentage of attendance and the like) some minor weaknesses of the department are also noteworthy.
- Dearth of departmental space, lack of availability of class rooms, lesser equipped class rooms (non-availability of e-classrooms) are some of the infrastructural weaknesses.
- Also absence of any regular support staff at the department may be considered as a crucial weakness.
- Lack of representation of college teachers at the under-graduate board of studies

⇒ **OPPORTUNITIES**

- In view of the strength of the faculty and the students, the department intends to plan and execute new innovations in teaching and research in the coming years.
- Also the department plans to carry on the program of Computer Training for Minority Girl students under the CPE scheme of the UGC in the coming years on a regular basis subject to availability of necessary financial support.



⇒ **CHALLENGES**

- Lesser allocation of grants and resources and infrastructural facilities.
- Lack of representation of college teachers at the under-graduate board of studies in syllabus up gradation.

⇒ **FUTURE PLANS:**

- The Department is planning to publish, on a regular basis, an annual volume comprising good dissertation papers of the students which they do as a part of their final year syllabus.
- Organizing Annual Conference of the Sociological Association of West Bengal.

## EVALUATIVE REPORT OF THE DEPARTMENT OF STATISTICS

1. Name of the Department : STATISTICS
2. Year of Establishment : 1981
3. Names of Programmes/Courses offered (UG, PG, M.Phil., Ph.D., Integrated Masters; Integrated Ph.D., etc.): UG: B.Sc. Honours and General in Statistics
4. Names of Interdisciplinary courses and the departments/units involved: All students of this department are involved in Compulsory Interdisciplinary course of Environmental Science
5. Annual/semester/choice based credit system (programme wise):

<i>Program</i>	<i>Annual</i>	<i>Semester</i>	<i>Credit System</i>
B.Sc. Honours in Statistics (1+1+1 Years)	1+1+1 Examination System of the University of Calcutta	No	No

6. Participation of the department in the courses offered by other departments/Institutions:

(i) Students of B.Sc. Honours in Statistics opt for Compulsory English, Bengali/English/Urdu as Modern Indian Language, Mathematics and Economics/Physics as their auxiliary subjects in General Course during the 1<sup>st</sup> and 2<sup>nd</sup> year.

(ii) Statistics as a General subject is opted by the Students of the B.Sc. Honours course in Physics, Mathematics, and Economics during their 1<sup>st</sup> and 2<sup>nd</sup> year study.

7. Courses in collaboration with other universities, industries, foreign institutions, other institutions, etc: NONE

8. Details of courses/programmes discontinued (if any) with reasons: NONE

9. Number of Teaching Posts:

<i>Post</i>	<i>Sanctioned</i>	<i>Filled</i>
Professor	Nil	Nil
Associate Professor	05	01 (through CAS)
Assistant Professor		03

10. Faculty profile with name, qualification, designation, specialization, (D.Sc./D.Litt./Ph.D./ M.Phil. etc.):

<i>Name</i>	<i>Qualification</i>	<i>Designation</i>	<i>Specialization</i>	<i>Years of Experience</i>	<i>No. of Ph.D. Students guided for last 4 years</i>
NILANJAN CHAKRABORTY	M.Sc.	Associate Professor	i) Design of Experiments ii) Econometrics	24	Nil
PARTHA PAL	M.Sc.	Assistant Professor	i) Multivariate Analysis ii) Reliability Theory iii) Advanced Inference	16	Nil

Name	Qualification	Designation	Specialization	Years of Experience	No. of Ph.D. Students guided for last 4 years
ANUP KUMAR GIRI	M.Sc., M.Phil.	Assistant Professor	i) Applied Multivariate Analysis ii) Advanced Inference iii) Computer Application in Statistics	6	Nil
DEBAJIT CHATTERJEE	M.Sc.	Assistant Professor	i) Advanced Inference	1	Nil
Teachers transferred or retired between the period 1 <sup>st</sup> April 2007 to September 2015					
PIPUL DUTTA	M.Sc.	Associate Professor	i) Regression Analysis ii) Design of experiments iii) Inference	34	Nil
AJOY PAL	M.Sc.	Assistant Professor	i) Econometrics ii) Advanced Sample Survey	15	Nil
ARUP KUMAR HAIT	M.Sc., M.Phil.	Associate Professor	i) Design of Experiments ii) Econometrics	26	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)

Programme	Year	Ratio	
		Honours	General
UG	1st	6.8 : 1	11.5 : 1
	2nd	11.3 : 1	10.3 : 1
	3rd	3.3 : 1	NA

14. Number of academic support staff (technical) and administrative staff; sanctioned and filled:

Category of support staff	Sanctioned	Filled
Group C	1	1

15. Qualifications of teaching faculty with D.Sc./D.Litt./Ph.D./M.Phil./PG:

Sl. No.	Name of Faculty	Qualifications
1.	NILANJAN CHAKRABORTY	M.Sc.
2.	PARTHA PAL	M.Sc.
3.	ANUP KUMAR GIRI	M.Sc., M.Phil.
4.	DEBAJIT CHATTERJEE	M.Sc.

16. Number of faculty with ongoing projects from a) National, b) International funding agencies and grants received : NIL

17. Departmental projects funded by DST - FIST; UGC, DBT, ICSSR, etc.: NIL

18. Research Centre /facilities recognized by University : NIL

19. Publication per faculty: (2010 to 2015)

Name of the faculty	No. of papers Ntl/Intl	No. of publications indexed in Int. Data Base.(ISBN/ISSN)	Monographs	Chapters in Books	Books edited	Books with ISBN/ISSN	Citation index	SNIP	SJR	Impact factor	H index
Partha Pal	1	1	-	-	-	-	-	-	-	-	-
Debajit Chatterjee	1	1	-	-	-	-	-	-	-	-	-

20. Areas of consultancy and income generated : NIL

21. Faculty as members in a) National committees b) International Committees c) Editorial Boards .... : None

22. Student Projects:

- Percentage of students who have done in-house projects including inter-departmental/ programme: 100% students of the Undergraduate programme do a project on Environmental Science as mandatory Course work
- Percentage of students placed for projects in organizations outside the institution i.e.in Research laboratories/Industry/other agencies: None

23. Awards/Recognitions received by faculty and students : NONE

24. List of eminent academicians and scientists/visitors to the department : NIL

25. Seminars/Conferences/Workshops organized & the source of funding : NIL

26. Student profile programme/course wise:

Name of the Course/ programme	Applicatio ns received	Selected	Enrolled						% Passed
			M	F	SC	ST	OBC	Minorities	
B. Sc. Hons (entry year 2010)	212	15	5	10	-	2	-	2	100
B. Sc. Hons (entry year 2011)	368	21	16	5	2	-	-	-	100
B. Sc. Hons (entry year 2012)	228	16	13	3	4	-	-	-	100
B. Sc. Hons (entry year 2013)	397	25	15	10	4	-	2	1	100
B. Sc. Hons (entry year 2014)	428	27	18	9	2	-	2	4	100

\*M=Male \*F=Female

**27. Diversity of Students:**

Name of the Course	% of students from the same state	% of students from other States	% of students from abroad
B.A. Honours 2010-11 batch	100	Nil	Nil
B.A. Honours 2011-12batch	100	Nil	Nil
B.A. Honours 2012-13 batch	100	Nil	Nil
B.A. Honours 2013-14 batch	100	Nil	Nil
B.A. Honours 2014-15 batch	100	Nil	Nil

**28. How many students have cleared national and state competitive examinations such as NET, SLET, GATE, Civil services, Defence services, etc.:** Nil

**29. Student progression:**

<i>Student progression</i>	<i>Against % enrolled</i>
UG to PG	100
PG to M.Phil.	-
PG to Ph.D.	-
Ph.D. to Post-Doctoral	-
Employed	-
Campus selection	-
Other than campus recruitment	-
Entrepreneurship/Self-employment	-

**30. Details of Infrastructural facilities:**

- **Library:** The Department has the seminar library facility.
- **Internet facilities for Staff & Students:** Internet is available for the faculty in the Department Staff Room as well as the General Staff Room. The students access the internet from the College Library.
- **Class rooms with ICT facility:** 01
- **Laboratories:**
  - Laboratory Name : Computer Laboratory
  - No. of Computers : 19
  - Other features : 01 mounted LCD Projector
  - Software : MINITAB Package and C Programming language

**31. Number of students receiving financial assistance from college, university, government or other agencies :**

Scheme	2010-11	2011-12	2012-13	2013-14	2014-15
Merit-cum-means Scholarship	-	01 (Rs10800/-)	-	-	-
KANYASHREE PRAKALPA K-2	-	-	-	03 (Rs75000/-)	-

**32. Details on student enrichment programmes (special lectures/workshops/seminar) with external experts:** Nil

**33. Teaching methods adopted to improve student learning:** Interactive mode is adopted

**34. Participation in Institutional Social Responsibility (ISR) and Extension activities Students of the department are active in :**

- i) The National Service Scheme (NSS)
- ii) Campus cleaning drive
- iii) Women empowerment initiatives
- iv) Gender sensitization program
- v) Consumer awareness program

**35. SWOC Analysis of the Department and Future Plans:**

- **Strength:**

Seminar Library  
Separate Computer Laboratory  
Dedicated faculty  
ICT based teaching-learning  
Friendly student-teacher relation

- **Weakness:**

Inadequate number of class-rooms

- **Opportunities:**

Interdisciplinary interactive programmes involving both students and teachers of various other faculties for those frequent statistical tools are required.

- **Challenges:**

To cope with the increasing demand for studying statistics among the students.

Transfer of faculty members resulting in variable teaching strength from time to time.

**EVALUATIVE REPORT OF THE POSTGRADUATE DEPARTMENT OF URDU**

1. **Name of the Department :** URDU
2. **Year of Establishment:** 1926
3. **Names of Programmes/Courses offered (UG, PG, M.Phil.,Ph.D., Integrated Masters; Integrated Ph.D., etc.) :**
  - **UG:** B.A. Honours & General
  - **PG:** M.A, in URDU
4. **Names of Interdisciplinary courses and the departments/units involved:** All UG students of this department are involved in Compulsory Interdisciplinary course of Environmental Science as offered by the University of Calcutta in its UG Programme.
5. **Annual/semester/choice based credit system (programme wise):**

Programme	Annual	Semester	Credit System
UG	1+1+1	No	No
PG	No	1+1+1+1	CGPA

6. **Participation of the department in the courses offered by other departments/ Institutions:** Our Department offers Urdu as General subject for the students of the Department of Arabic, English, Persian, Sanskrit, History, Islamic History & Culture, Philosophy, Political Science and Sociology. In addition, the students of the department can choose MIL as Bengali/English/Urdu/Arabic and they can also opt any two subjects from English, Persian, Arabic, Economics, Sanskrit, Philosophy, Political Science, History, Islamic History & Culture and Sociology as their General course subjects.
7. **Courses in collaboration with other universities, industries, foreign institutions, other institutions, etc. :** Nil
8. **Details of courses/programmes discontinued (if any) with reasons:** None
9. **Number of Teaching posts:**

Course	Sanctioned	Filled
Professors	NIL	NIL
Associate Professors	7	2 (through CAS)
Assistant Professors		5

10. **Faculty profile with name, qualification, designation, specialization, (D.Sc./D.Litt./Ph.D./ M. Phil. etc.,)**

Name	Qualification	Designation	Specialization	No. of years of experience	No. of Ph.D. Students guided for the last 4 years
Dr.Dabir Ahmed	M.A, Ph.D.	Associate Professor	Linguistics and Criticism	19 years	Nil
Dr. Shahnawaz Shibli	M.A., Ph.D.	Assistant Professor	Poetry and Criticism	18 years	Nil
Dr. Md. Humayun Jamil Khan	M.A, Ph.D.	Associate Professor	Poetry	17 years	Nil

Name	Qualification	Designation	Specialization	No. of years of experience	No. of Ph.D. Students guided for the last 4 years
Dr. S. M. Azhar Alam	M.A, Ph.D.	Assistant Professor	Drama	13 years	Nil
Dr. S. M. Hashmi	M.A, Ph.D.	Assistant Professor	Poetry	12 years	Nil
Dr. Shabnam Parveen	M.A., Ph.D.	Assistant Professor	Poetry	6 Years	8
Md. Manzar Hussain	M.A, M.Phil.	Assistant Professor	Prose	7 Months	Nil
<i>Teachers Transferred Or Retired Between The Period 1<sup>st</sup> April 2007 To September 2015</i>					
Omar Ghazali	M.A, Ph.D.	Associate Professor	Fiction	13 Years	Nil
Anis Akhtar	M.A	Associate Professor	Fiction	28 Years	Nil

#### 11. List of senior visiting faculty:

	Name	Qualification	Affiliation	Specialization
1	Dr. Y. R. Taqi	M.A., Ph.D. (Retired Professor)	Department of Urdu, University of Calcutta	Prose
2	Qaisar Shameem	M.A (Retired Professor)	Department of Urdu, University of Calcutta	Poetry
3	S.M. Shabbar	M.A (Retired Professor)	Department of Urdu, Hooghly Mohsin College, WB	Poetry
4	Dr. Shamim Anwar	M.A, Ph.D. (Retired Professor)	Department of Urdu, University of Calcutta	Poetry
5	Shahira Khatoon	M.A (Retired Professor)	Department of Urdu, University of Calcutta	Fiction

#### 12. Percentage of lectures delivered and practical classes handled (programme wise) by temporary faculty: 30 % (exclusively for PG classes)

#### 13. Student-Teacher Ratio (programme wise):

Course	Class	Ratio
UG	1 <sup>st</sup> Year	Honours: 15:1, Gen: 25:1
	2 <sup>nd</sup> Year	Honours: 15:1, Gen: 25:1
	3 <sup>rd</sup> Year	Honours: 12:1, Gen: 20:1
PG	1 <sup>st</sup> Sem	5:1
	2 <sup>nd</sup> Sem	5:1
	3 <sup>rd</sup> Sem	5:1
	4 <sup>th</sup> Sem	5:1

#### 14. Number of academic support staff (technical) and administrative staff; sanctioned and filled: Nil



**15. Qualifications of teaching faculty with DSc/D.Litt./Ph.D./M.Phil./PG:**

Sl No.	Name of Faculty	Qualifications
1	Dr. Dabir Ahmed , Associate Professor	M.A, Ph.D
2	Dr. Shahnawaz Shibli, Assistant Professor	M.A, Ph.D
3	Dr. Md. Humayun Jamil Khan, Associate Professor	M.A, Ph.D
4	DR. S.M.Azhar Alam, Assistant Professor	M.A, Ph.D
5	DR. S.M. Hashmi, Assistant Professor	M.A, Ph.D
6	Dr.Shabnam Parveen, Assistant Professor	M.A, Ph.D
7	Mr. Md. Manzar Hussain, Assistant Professor	M.A, M.Phil
8	Dr.Y.R. Taqi, Guest Teacher	M.A, Ph.D
9	Dr. Shamim Anwar, Guest Teacher	M.A, Ph.D
10	Mr. Qaiser Shameem, Guest Teacher	M.A.
11	Mr. S.M.Shabbar, Guest Teacher	M.A.
12	Ms. Shahira Khatoun, Guest Teacher	M.A.

**16. Number of faculty with ongoing projects from a) National, b) International funding agencies and grants received :** Nil**17. Departmental projects funded by DST-FIST; UGC, DBT, ICSSR, etc. and total grants received:** Nil**18. Research Centre /facilities recognized by University:** yes**19. Publication:** (List of publication per faculty from 2010-11 to 2014-15)

Name of the faculty	No. of papers in Peer reviewed National and international Journal	No. of publications indexed in Int. Data Base.(ISBN/ISSN)	Monographs	Chapters in Books	Books edited	Books with ISBN/ISSN	Citation index	SNIP	SJR	Impact factor	H index
Dr. Dabir Ahmed	1	-	1	7	-	1	-	-	-	-	-
Dr. Shahnawaz Shibli	11	-	-	11	-	2	-	-	-	-	-
Dr.S.M.Hashmi	-	-	-	3	-	-	-	-	-	-	-
Dr.Shabnam Parveen	1	-	-	1	-	-	-	-	-	-	-
Md.Manzar Hussain	1	-	-	-	-	-	-	-	-	-	-

<b>*Articles Published in different Journals and Newspapers/Books (without ISSN/ISBN):</b>	
Dr. Dabir Ahmed	7
Dr. Shahnawaz Shibli	6
Dr. M.H.Jamil Khan	7
Dr. S.M.Azhar Alam	12
Dr.S.M.Hashmi	4
Dr.Shabnam Parveen	5
Md.Manzar Hussain	2
Dr.Y.R. Taqi, Guest Teacher	2
Dr. Shamim Anwar, Guest Teacher	1

**20. Areas of consultancy and income generated:** Nil

**21. Faculty as members in National committees/ International Committees/ Editorial Boards:**

<b>Dr. Dabir Ahmed</b>	1. Life member, Asiatic Society , Kolkata, India
	2.Life member, The Muslim Institute of Kolkata, India
	3. Co-opt member of West Bengal Urdu Academy , Kolkata
	4. Government Nominee Of Calcutta Girls' College, Kolkata
	5.Life member of Sir Syed Library , Kolkata
	6. Member of Selection committee under MACP Scheme, Central Council for Research in Unani Medicine.
	7. Associate Editor, MAC Academic Journal of Language and Social Sciences
<b>Dr. Shahnawaz Shibli</b>	1. Life Member, The Muslim Institute, Kolkata
	2. Executive Member, All India Progressive Writers' Association, Delhi
	3. Honorary Editor , Bi monthly Magazine Sohail, Kolkata
	4.G.B. Nominated member, Milli Al Ameen College, Kolkata
	5. Member of Editorial Board, MAC Academic Journal of Language and Social Sciences
<b>Dr. S.M. Azhar Alam</b>	Nominated Member, Paschim Banga Natya Academy
<b>Dr. Shabnam Parveen</b>	1. Member of BRS in Urdu, Burdwan University
	2.Member of RAC in Urdu Burdwan University
<b>Md.Manzar Hussain</b>	1. Member of Zakaria Educational Welfare Society
	2.Member, Md. Ali Library Committee, Kolkata
<b>Prof. Y.R. Taqi</b>	1. Life Member of Iran Society
	2. Member of Muslim Institute, Kolkata
	3. Vice President of Educational Co-Ordination Committee
	4.Member of BSRAC Burdwan University
<b>Sri. Qaiser Shameem</b>	Life Member of Asiatic Society
	Member of Howrah Writers' Association

**22. Student projects:**

- **Percentage of students who have done in-house projects including inter-departmental/ programme:**
  - i) 100% students of the Undergraduate do a project on Environmental Science as mandatory Course work respectively
  - ii) Dissertations: M.A. 4<sup>th</sup> Semester
- **Percentage of students placed for projects in organizations outside the institution:** Nil

**23. Awards/Recognitions Received by faculty and students:**

- Dr.Dabir Ahmed, (1) Mahboob e Elahi Award 2014 and (2) Kalimuddin Shams Award 2014
- Dr.S.M.Hashmi, (1)Raza Ali Wahshat Award By WBUA, 2010
- Dr. Shahnawaz Shibli, (1) Sahir Ludhianwi Award, Kolkata, 2015 (2) Kalimuddin Ahmed Award For Criticism,Patna,2014 (3) Abdul Ghafur Shahbaz Award for Research,Patna, 2012

**24. List of eminent academicians and scientists/visitors to the department:**

Sr. No.	Name	Topics	Year
1	Prof. Sharib Rudaulvi, Jawahar Lal Nehru University, Delhi	Criticism	July, 2010
2	Prof. Nikhat Begum, Jawahar Lal Nehru University, Delhi	Criticism	July, 2010
3	Prof. Wahab Ashrafi , Ranchi University	Nazir Akbar Aabadi	Nov, 2011
4	Prof. Muzaffar Hanfi, Jamia Millia Islamia, Delhi	Meeraji	March, 2012
5	Prof. Khalid Mahmood, Jamia Millia Islamia, Delhi	Safarnama	May, 2013
6	Prof. Shahzad Anjum, Jamia Millia Islamia, Delhi	Gopi Chand Narang	
7	Prof. Sohail Ahmed Faruqi , Jamia Millia Islamia, Delhi	Urdu Ghazal	
8	Dr. Nadeem Ahmed, Jamia Millia Islamia, Delhi	Urdu Ghazal	
9	Jawed Danish, Educationist, Canada	Safarnama	Nov, 2013
10	Prof. Afsah Zafar, Magadh University, Bihar	Bengal Mein Urdu ki Surat-e-Haal	March, 2015
11	Prof. Manzar Ejaz , Magadh University	Bengal Mein Urdu ki Surat-e-Haal	
12	Dr. Jamil Akhtar Mohibbi, Educationist, Ara	Bengal Mein Urdu ki Surat-e-Haal	
13	Dr. Ahmed Saghir, Educationist, Gaya	Bengal Mein Urdu ki Surat-e-Haal	
14	Dr.Humayun Ashraf, Educationist, Hazari Bagh	Bengal Mein Urdu ki Surat-e-Haal	
15	Dr. Mazhar Kibria, Bihar University	Bengal Mein Urdu ki Surat-e-Haal	
16	Dr. Sakhil Ahmed Khan, Educationist, Murshidabad	Bengal Mein Urdu ki Surat-e-Haal	
17	Dr. Omar Ghazali, Asso. Prof. , Hooghly Mohsin College	Bengal Mein Urdu ki Surat-e-Haal	

**25. Seminars/Conferences/Workshops organized & the source of funding:**

Topic	Funding Agency	Year
Mushayerah	Department of Urdu	2010
National Seminar : Nazir Akbar Abadi Life and Works	UGC (Letter Sanction no. CW/034/10-11, dt. 05-10-10)	2012
Mushayerah	Department of Urdu	2012
Invited Lecture	Department of Urdu	2013
Invited Lecture	Department of Urdu	2014
Mushayerah	Department of Urdu	2014
National Seminar "Bengal Mein Urdu ki Surat-e-Haal"	National Council for Promotion of Urdu Language (Letter Sanction no. 4-5/2015/GIA/NCPUL-13, dt. 30-01-2015)	2015

- **International:** None

**26. Student profile programme/course wise:**

Name of the Course/ programme	Applications received	Selected	Enrolled			
			M	F	Minorities	% Passed
B. A. Hons ( 2010-11)	200	65	15	50	65	100%
B. A. Hons (2011-12)	206	70	18	52	70	100%
B. A. Hons (2012-13)	226	80	22	58	80	100%
B. A. Hons (2013-14)	221	81	20	61	81	100%
B. A. Hons (2014-15)	201	91	76	15	91	100%
M.A. (2010-11)	70	30	9	21	30	100%
M.A. (2011-12)	65	30	8	22	30	100%
M.A. (2012-13)	74	30	10	20	30	100%
M.A. (2013-14)	73	34	10	24	34	100%
M.A.(2014-2015)	82	29	3	26	29	100%

\*M=Male \*F=Female

**27. Diversity of Students:**

Name of the Course	% of students from the same state	% of students from other States	% of students from abroad
B.A. Honours 2010-11 batch	100%	Nil	Nil
B.A. Honours 2011-12batch	96.7%	3.3%	Nil
B.A. Honours 2012-13 batch	100%	Nil	Nil
B.A. Honours 2013-14 batch	100%	Nil	Nil
B.A. Honours 2014-15 batch	100%	Nil	Nil
M.A. (2010-11)	100%	Nil	Nil
M.A. (2011-12)	100%	Nil	Nil
M.A. (2012-13)	95%	5%	Nil
M.A. (2013-14)	80%	20%	Nil
M.A. (2014-2015)	95%	5%	Nil

**28. How many students have cleared national and state competitive examinations such as NET, SLET, Civil services, Defence services, etc.:**

**NET:**

Sl.No	Name of the Candidates	NET/SET/OTHER	YEAR
1	Md. Feroz Ansari	NET	Dec- 2010
2	Tanwir Azam	NET	Dec- 2011
3	Irshad Ahmed	SET	Dec- 2011
4	Aleem Hashmi	NET	Dec- 2011
5	Muzaffar Ali	NET	June-2015
6	Md. Manzar Hussain	NET	June-2012
7	Md. Irshad Ali	NET	June-2012
8	Md. Abid Hassan	NET/JRF	June-2012
9	Afreen Khatoon	NET	June-2012
10	Farzana Begum	NET	June-2012
11	Aleem Hashmi	NET	June-2012
12	Md. Manzar Hussain	NET	Dec- 2012
13	Muzaffar Ali	NET	Dec-2012
14	Md. Saquib	NET	Dec- 2013
15	Sk.Zahoor Alam	NET/SET	Dec- 2014
16	Sadia Sadaf	SET	Dec- 2014
17	Zafar Ahmed	SET	Dec- 2014
18	Inam Ur Rahman	NET	Dec- 2014
19	Md. Irshad Ali	NET	Dec-2014

**29. Student progression:**

Student progression	Against % enrolled
UG to PG	85%
PG to M.Phil.	10%
PG to Ph.D.	10%
Ph.D. to Post-Doctoral	Nil
<b>Employed</b>	Nil
• Campus selection	40%
• Other than campus recruitment	
Entrepreneurship/Self-employment	40%

**30. Details of Infrastructural facilities:**

- **Library:** The Department has received a total of Rs.1,50,000/- under 'Development Grant'/UGC Grant in Aid/UGC-CPE grant for the years from 2007-8 to 2013-14. It has purchased books worth Rs. 1, 50,000/- for the undergraduate and post- graduate courses out of this.
- **Digital resources:** Laptop and Computer
- **Internet facilities for Staff & Students:** Internet is available for the faculty in the Department Staff Room as well as the General Staff Room. The students access the internet from the College Library. In order to use the e-library PG students access the internet from the PG staff room of the Department.
- **Class rooms with ICT facility : 2 (Two)**
- **Laboratories :** Language Laboratory is available

**31. Number of students receiving financial assistance from college, university, government or other agencies:**

Scheme	2010-11	2011-12	2012-13	2013-14	2014-15
Merit-cum-means Scholarship		03 (PG) (Rs.43200/-)			
Kanyashree Prkalpa K-2				30 (Rs.750000/-)	13 (Rs.325000/-)
Student Aid Fund		05 + 05 (PG) (Rs.8054/- + Rs.2300/-)	12 +11 (PG) (Rs.11450/- + Rs.19140/-)	03 + 06 (PG) (Rs.2700/- + Rs.9000/-)	01 + 01 (PG) (Rs.2700/- + Rs.1740/-)

**31. Details on student enrichment programmes (special lectures/workshops/seminar) with external experts :** Refer to Item No.-24**32. Teaching methods adopted to improve student learning:** Interactive Mode adopted**33. Participation in Institutional Social Responsibility (ISR) and Extension activities Students of the department are active in :**

- i) The National Service Scheme (NSS)
- ii) Campus cleaning drive
- iii) Women empowerment initiatives
- iv) Gender sensitization program
- v) Consumer awareness program
- vi) Iftar Party, Milad-Un-Nabi

**34. SWOC analysis of the department and Future plans:****Strength of the Department**

- Well Qualified and Knowledgeable Faculty supported with excellent Library resources. Modern syllabus with inputs from all relevant Institutions of India.
- Generating creative interest among the students.
- Department is in active collaboration with external organizations in various fields.
- Faculty of the department earning laurels in fields of performing arts.
- In house NET coaching centre and centre for entry into services.
- Significant improvement of result over the periods of reference.

**Weakness**

- University approval as an M.Phil and Ph.D degree awarding department is required.
- The service being transferrable there is always a possibility of teaching-learning process being hampered midway in a session
- Students sometimes succumb to family and economic pressure and tend to discontinue the studies.

**Opportunities**

- Preservation of Urdu manuscripts and to explore those to enhance the scope of the further

research

- Faculty members are capable of acting as Principal Investigator in various research project
- Collaborative research work with WB Urdu Academy

### **Challenges**

- Constrained by time and space to cope with the pace of advancement in the field of Literature

### **Future Plans:**

- ❖ Proposal for recruitment of WBSES faculty in the PG department
- ❖ Invite Resource Persons from various Research Institutions to deliver Special Lectures in Classical and Modern Urdu Literature topics.
- ❖ We planned to continue UGC sponsored training programme for aspirants of NET/SLET among the final year PG students.
- ❖ We propose to conduct Career Guidance Programme for final year of UG & PG students





**EVALUATIVE REPORT OF THE POSTGRADUATE DEPARTMENT OF ZOOLOGY**

**1. Name of the Department: ZOOLOGY**

**2. Year of Establishment : 1996**

**3. Courses Offered :**

**UG:** Yes (B.Sc. Honours in Zoology & B.Sc. General in Zoology)

**PG:** Yes (M.Sc. in Zoology: specialization; Cytogenetics, Parasitology  
Fisheries & Aquaculture, Ecology)

**4. Names of the Interdisciplinary Courses in which the Department is involved:**

All students of UG are involved in Compulsory Interdisciplinary course of Environmental Science as offered by the University of Calcutta in its UG Programme.

**5. Annual /Semester/Choice Based Credit System (Programme wise):**

Programme	Annual	Semester	Credit System
UG (B.Sc. Honours in Zoology)	1+1+1	NA	NA
PG (M.Sc. in Zoology)	1+1 (old)	CBCS (New)	CGPA

**6. Participation of the Department in Courses Offered by Other Departments:**

(i) Students of B.Sc. Honours in Zoology opt for Compulsory English, MIL Bengali/English/Urdu, Botany and Chemistry as their auxiliary subjects in General Course during the 1<sup>st</sup> and 2<sup>nd</sup> year.

(ii) Zoology as a General subject is opted by the Students of the B.Sc. Honours course in Botany, during their 1<sup>st</sup> and 2<sup>nd</sup> year study.

**7. Courses in collaboration with other Universities, Industries, Foreign Institutions etc.:** No

**8. Details of Programme /Courses discontinued(if any) with reasons:** None

**9. Number of Teaching Posts:**

Post	Sanctioned	Filled
Professor	01	01
Associate Professor	10	02 (through CAS)
Assistant Professor		07

**10. Faculty profile with Name, Qualification, Designation, Specialization (D.Sc./D.Litt./Ph.D./M.Phil. etc.):**

	Name	Qualification	Designation	Specialization	Number of Years of experience	Number of Ph.D. students guided for the last 4 years
1	Dr. Subir Chandra Dasgupta	M.Sc., Ph.D.	Professor	Cytogenetics	30	8
2	Dr. Dipak Kumar Som	M.Sc., Ph.D.	Associate Professor	Entomology	25	Nil
3	Dr. Animesh Panigrahi	M.Sc., Ph.D.	Associate Professor	Fishery	25	Nil
4	Dr. Sudipta Chakraborty	M.Sc., Ph.D.	Assistant Professor	Parasitology and Immunology	8.5	Nil
5	Dr. Susanta Roy Karmakar	M.Sc., Ph.D.	Assistant Professor	Cytogenetics	8.2	Nil
6	Dr. Pradip Kumar Kar	M.Sc., Ph.D.	Assistant Professor	Parasitology and Immunology	10	3

	Name	Qualification	Designation	Specialization	Number of Years of experience	Number of Ph.D. students guided for the last 4 years
7	Dr. Sanjukta Manna	M.Sc. Ph.D.	Assistant Professor	Parasitology and Immunology	6.5	Nil
8	Dr. Rajarshi Ghosh	M.Sc.Ph.D.	Assistant Professor	Haematology	Joined on March 2015	Nil
9	Sri Abhishek Mukherjee	M.Sc.	Assistant Professor	Ecology and Environmental Science	Joined on March 2015	Nil
10	Smt. Nabanita Ghosh	M.Sc.	Assistant Professor	Immunology	Joined on March 2015	Nil
11	Smt. Panchali Sengupta	M.Sc.	Asst. Prof. (Part time)	Endocrinology	6	Nil
<i>Teachers Transferred/Retired/Left service Between The Period 2010 To September 2015</i>						
12	Sri Dip Mukherjee (till Feb. 2015)	M.Sc.	Asst. Prof. (Part time)	Immunology	6	Nil
13	Dr. Subha Manna ( transferred, May 2015)	M.Sc., Ph.D.	Associate Professor	Fishery	15	1
14	Dr. Sumana Das ( transferred, March 2013)	M.Sc., Ph.D.	Assistant Professor	Endocrinology	8.5	Nil
15	Dr. Jayati Ghosh ( transferred, September 2012)	M.Sc., Ph.D.	Assistant Professor	Parasitology	11	Nil
16	Dr. Sanjib Kumar Das ( transferred, 2011)	M.Sc., Ph.D.	Associate Professor	Cytogenetics	15	1
17	Dr. T. N. Khan (Retired, May 2014)	M.Sc., Ph.D.	Associate Professor	Ecology	28	Nil
18	Sri Dipankar Sengupta (Retired, April, 2013)	M.Sc.	Associate Professor	Entomology	28	Nil
19	Dr.Paresh Chandra Das (Retired June 2011)	M.Sc., Ph.D.	Associate Professor	Cytogenetics	30	Nil
20	Dr. Debasish Mutsuddi ( Retired August 2015)	M.Sc., Ph.D.	Associate Professor	Cytogenetics	30	Nil

**11. List of Senior Visiting Faculty:**

	Name	Qualification	Affiliation	Specialization	Years of Experience	Any other information
1	Dr. P. Lahiri	M.Sc., Ph.D. (Retired Professor)	Department of Zoology, University of Calcutta	Ethology, Env. Sciences	40 years	Acting as guest teacher

	Name	Qualification	Affiliation	Specialization	Years of Experience	Any other information
2	Dr. D.K. Nath	M.Sc., Ph.D. (Retd. Scientist)	Chief Entomologist, Govt. of West Bengal	Entomology	40 years	Acting as guest teacher
3	Dr. R. Bhattacharjee	M.Sc., Ph.D. (Retd. Assoc.Prof.)	Department of Zoology, Bethune College, Kolkata	Endocrinology	40 years	Acting as guest teacher
4	Dr. B. Sengupta	M.Sc., Ph.D. (Retd. Assoc.Prof.)	B P Poddar institute of Management	Statistics	30 years	Acting as guest teacher
5	Dr. P.K. Mukhapadhyay	M.Sc., Ph.D. (Retd. Scientist)	Deputy Director, CIFRI	Biochemistry	30 years	Acting as guest teacher
6	Dr. R. Roy	M.Sc., Ph.D. (Retd. Assoc.Prof.)	Department of Zoology, Presidency College, Kol	Parasitology	32 years	Acting as guest teacher
7	Dr. T. Mukherjee	M.Sc., Ph.D. (Retd. Assoc.Prof.)	Department of Zoology, Presidency College, Kol	Entomology	32 years	Acting as guest teacher
8	Dr. N. Chakrabarti	M.Sc., Ph.D. (Retd. Assoc.Prof.)	Department of Chemistry, Maulana Azad College, Kolkata	Organic Chemistry	32 years	Acting as guest teacher
9	Dr. T.N.Khan	M.Sc., Ph.D. (Retd. Assoc.Prof.)	Department of Zoology, Maulana Azad College,	Ecology	28 years	Acting as guest teacher
10	Dr. S.K. Gupta (till 2014)	M.Sc., Ph.D., D.Sc. (Retd.)	Zoological Survey of India, Kolkata	Entomology	40 years	Acting as guest teacher
11	Dr. M. Mukherjee (till 2014)	M.Sc., Ph.D. (Retd. Assoc.Prof.)	Department of Zoology, Lady Brabourne College, Kolkata	Endocrinology	40 years	Acting as guest teacher

**12. Percentage of Lectures Delivered and Practical Classes Handled (programme wise) by Temporary Faculty:**

Programme	Temporary Faculty	% classes taken
UG	Guest Teachers	Nil
	Part Time Teachers	20%
PG	Guest teachers	30%
	Part Time teachers	5%

**13. Student-Teacher Ratio (programme wise):**

Programme	Year	Ratio (Student: Teachers)	
		Honours	General
B.Sc. Honours + General in Zoology (2014-15)	1st	2.9:1	1.6:1
	2nd	2.3:1	1.6:1
	3rd	2:1	-
M.Sc. in Zoology		2.5:1	-

**14. Number of Academic Support Staff (Technical) and Administrative staff; sanctioned and filled:**

Category of Support staff	Sanctioned	Filled	Vacant
1. Group C	1	1	Nil
2. Group D	3	2	1

**15. Qualifications of Teaching Faculty with D.Sc./ D.Litt./ Ph.D./ M.Phil./PG. :**

	Name	Qualification	Designation
1	Dr. Subir Chandra Dasgupta	M.Sc., Ph.D.	Professor
2	Dr. Dipak Kumar Som	M.Sc., Ph.D.	Associate Professor
3	Dr. Animesh Panigrahi	M.Sc., Ph.D.	Associate Professor
4	Dr. Sudipta Chakraborty	M.Sc., Ph.D.	Assistant Professor
5	Dr. Susanta Roy Karmakar	M.Sc., Ph.D.	Assistant Professor
6	Dr. Pradip Kumar Kar	M.Sc., Ph.D.	Assistant Professor
7	Dr. Sanjukta Manna	M.Sc. Ph.D.	Assistant Professor
8	Dr. Rajarshi Ghosh	M.Sc., Ph.D.	Assistant Professor
9	Sri Abhishek Mukherjee	M.Sc.	Assistant Professor
10	Smt. Nabanita Ghosh	M.Sc.	Assistant Professor
11	Smt. Panchali Sengupta	M.Sc.	Asst. Prof. (Part time)
12	Sri Dip Mukherjee (till Feb. 2015)	M.Sc.	Asst. Prof. (Part time)
13	Dr. Subha Manna (transferred, May 2015)	M.Sc., Ph.D.	Associate Professor
14	Dr. Sumana Das (transferred, March 2013)	M.Sc., Ph.D.	Assistant Professor
15	Dr. Jayati Ghosh (transferred, September 2012)	M.Sc., Ph.D.	Assistant Professor
16	Dr. Sanjib Kumar Das (transferred, 2011)	M.Sc., Ph.D.	Associate Professor
17	Dr. T. N. Khan (Retired, May 2014)	M.Sc., Ph.D.	Associate Professor
18	Sri Dipankar Sengupta (Retired, April, 2013)	M.Sc.	Associate Professor
19	Dr. Paresh Chandra Das (Retired, 2011)	M.Sc., Ph.D.	Associate Professor
20	Dr. Debasish Mutsuddi (Retired, 2015)	M.Sc., Ph.D.	Associate Professor

**16. Number of faculty with ongoing projects from a) National b) International funding agencies and grants received:**

Name of the faculty	Funding agency	2010-11 (Title of the project with sanction no. and outlay)	2011-12 (Title of the project with sanction no. and outlay)	2012-13 (Title of the project with sanction no. and outlay)	2013-14 (Title of the project with sanction no. and outlay)	2014-15 (Title of the project with sanction no. and outlay)
<b>Dr. S.C. Dasgupta</b>	ICMR	-	-	-		Development and testing of herbo nano compounds against experimental snake envenomation 58/32/2012-BMS dt 04.03.2015 (2015-
	National Tea Research Foundation (NTRF)	-	-	Evaluation--- postnatal development of albino rats Sanction No.:17 (305)/2013/4423 dated 11 <sup>th</sup> March, 2014. Rs-13,55,760/-	Continuing	Continuing
	UGC	Search ... extract F No-38-130/2009 (SR) dt.19.12.2009 Rs. 11,33,000/	Continuing	Completed.	-	-
<b>Dr. Tarak Nath Khan</b>	UGC	Diversity..Ben gal F. No. 33-338/2007 (SR), dt. 12. 03. 2008 Rs. 9,34,300/	Continuing	Completed.	-	-
<b>Dr. Subha Manna</b> (Transferred)	UGC	Reproductive ... vitalogenesis PSW-068/09-10, dt. 08.10.2009 Rs.9,31,800/-	Continuing	Completed	-	-

Name of the faculty	Funding agency	2010-11 (Title of the project with sanction no. and outlay)	2011-12 (Title of the project with sanction no. and outlay)	2012-13 (Title of the project with sanction no. and outlay)	2013-14 (Title of the project with sanction no. and outlay)	2014-15 (Title of the project with sanction no. and outlay)
<b>Dr. Sumana Das</b> (Transferred)	UGC	The effect ... <i>Ciprinus carpio</i> PSW-068/09-10, Dt. 08.10..2009 Rs.1,50,000/-	Continuing	Completed.	--	-
<b>Dr. Pradip Kumar Kar</b>	CSIR	“Bioprospection ..... Population”, Completed, Outlay: Rs. 26 lakh (Approx)	-	-	-	-
	DST, India-Italy Executive Programme	Neuronanotechnology Completed, Outlay: Rs. 20 Lakh (approx)	-	-	-	-
	Academy of Sciences of the Czech Republic, European Union	“Diversity, ... in India” Outlay: Rs. 20 lakh (Approx)	Continuing	Continuing		
	N.S.F., University of Connecticut	-	-	NA	Planetary Biodiversity Grant, NSF, Total Outlay \$3,000,000, PI: Prof. Janine Caira, UCONN Indian Collaborator: Dr. P.K.Kar (as part of MOU)	Continuing

Name of the faculty	Funding agency	2010-11 (Title of the project with sanction no. and outlay)	2011-12 (Title of the project with sanction no. and outlay)	2012-13 (Title of the project with sanction no. and outlay)	2013-14 (Title of the project with sanction no. and outlay)	2014-15 (Title of the project with sanction no. and outlay)
Dr. Sanjukta Manna	UGC	-	-	-	-	Minor project: "Gastrointestinal ...Profile" (PSW – 167/13-14 (ERO) Id No. WBS 028 Rs.380000/-

**17. Departmental Projects Funded by DST-FIST; UGC, DBT, ICSSR, etc. and Total Grants Received:**

Year of Report (Last 4 years)	Funding Agency	Scheme	Grant amount	Details
2012	DST	FIST (continued)	Rs.18,00,000/- (Non recurring) Rs-10,000/- ((Recurring)	Laboratory Infrastructure development <b>Status-</b> Ongoing
2012	DBT	Star College Programme (continued)	Rs.8,00,000/- (Recurring) Rs-5,00,000/- (Non Recurring)	Development of Skilled Manpower through hands-on training, Infrastructure development and purchase of Books <b>Status-</b> Ongoing
2013	UGC	CPE assistance	Rs.23,00,000/-	Laboratory infrastructure development, School of Env. studies, ICT classroom, instrumentation centre, tissue culture centre <b>Status-</b> Ongoing
2013 (12 <sup>th</sup> Plan, Period)	UGC	12 <sup>th</sup> Plan, Period (continued)	Rs.1,00,000/-	Laboratory infrastructure development and purchase of book <b>Status-</b> Ongoing
2015	DBT (WB)	BOOST	Rs- 35,00,000/-	Laboratory infrastructure development Status -Ongoing

**18. Research Centre /facility Recognized by the University:**

	Recognizing University	From the Year
1	University of Calcutta	1992
2	University of Burdwan	2012
3	Visva Bharati	2011

**19. Publication per faculty (2010-11 to 2014-15):**

Name of the faculty	Number of papers published in Peer reviewed Journal	Number of publications listed in international Database	Monographs	Chapters in Books	Books edited	Books with ISBN	Citation index	SNIP	SJR	Impact factor	H index
Dr. S. C. Dasgupta	10	10	-	2	1	-	429	-	-	05-2.5	9
Dr. Sudipta Chakraborty	09	09	1	1	-	1	65	-	-	2.48-3.03	4
Dr. P. K. Kar	09	09	-	-	-	-	124	-	-	1.5-4.51	8
Dr. S. R. Karmakar	12	12	-	-	-	-	124	-	-	0.8-2.17	6
Dr. S. Manna	3	1	-	-	-	-	8	-	-	1.2	2
Dr. Rajarshi Ghosh	11	5	-	1	-	-	4	-	-	1.3	1
Dr. Avishek Mukherjee	16	11	-	-	-	-	66	-	-	0.52-1.91	5
Dr Nabanita Ghosh	2	2	-	-	-	-	25	-	-	3.74	2

**20. Areas of Consultancy and Income Generated :** None

**21. Faculty as members in National committees/ International Committees/ Editorial Boards...**

Name of the faculty	Members in National committees/ International Committees/ Editorial Boards...
Dr. Subir Chandra Dasgupta	1. Life member, Indian Association of Biomedical Scientist
	2. Life member, Zoological Society of Calcutta, Kolkata, India
	3. Life member of the Indian Science Congress Association
	4. Life member & Treasurer, Toxicological Society of India
	5. Fellow Member, Zoological Society of Calcutta, Kolkata, India
	6. Life Member-Asiatic Society, Kolkata
	7. Life Member-Indian Pharmacological Society
	8. Member Advisory Committee for Ph.D. Vivekananda University
Dr. Tarak Nath Khan*	1. Member of the editorial board of the Journal of Bengal Natural History Society (up to 2009)
	2. Life member, Zoological Society of Calcutta, Kolkata, India
	3. Life member of the Indian Science Congress Association
Dr. Dipak Kumar Som	1. Life member, Zoological Society of Calcutta, Kolkata, India
Dr. Animesh Panigrahi	1. Fellow member, Zoological Society of Calcutta, Kolkata, India
	2. Fellow, Indian Association of Biological Science
	3. Fellow, Society of Environmental Sciences
	3. Member, International Society for Medical and Applied Malacology
	4. Elected member, Indian Association of Biological Sciences.
	5. Elected member, Society of Environmental Sciences
6. Served as Assistant Editor of <i>Indian Biologist</i> for 2 years.	



Name of the faculty	Members in National committees/ International Committees/ Editorial Boards...
	7. Member, Editorial Board of Research Journal <i>Ecology Environment and Conservation</i> for 2 years.
Dr. Subha Manna	1. Life member, Zoological Society of Calcutta, Kolkata, India
Dr. Sudipta Chakraborty	1. Life member, Zoological Society of Calcutta, Kolkata, India 2. Member of the Advisory Board, International Journal of Zoology Research 3. Associate Editor, Maulana Azad College Journal
Smt. Sumana Das **	1. Life member of the Indian Science Congress Association
Dr. Susanta Roy Karmakar	Life member of the Indian Science Congress Association 2. Life member of Indian Society for Cell Biology
Dr. Pradip Kumar Kar	Life member of Indian Society of Parasitology Life member of Zoological Society, Kolkata Life Member of Indian Society for Cell Biology
Dr. Sanjukta Manna	Life member of the Indian Science Congress Association Life member, Zoological Society of Calcutta, Kolkata, India
Dr. Rajarshi Ghosh	Life Member, Zoological Society of Calcutta, Kolkata, India
Sri Abhishek Mukherjee	1. Life Member, Zoological Society of Burdwan, Burdwan, India
Smt. Nabanita Ghosh	1. Life Member Zoological Society of Calcutta, Kolkata

\* Retired in 2014 \*\* Transferred to Krishnanagar Govt, College in 2013

## 22. Student Projects:

- a) Percentage of students who have done in-house projects including inter departmental/programme: PG: 100% UG: 50%
- b) Percentage of students placed for projects in organizations outside the institution i.e. in Research laboratories/Industry/other agencies: PG: 4%

## 23. Awards/ Recognitions Received by Faculty and Students :

	Name of the Student	PG/UG	Year of Award	Nature of Award
1	Navadeepa Bhattacharjee	PG	2014	DST Inspire
2	Debdeep Dutta	UG	2010	DST Inspire
3	Debanjan Sarkar	UG	2011	DST Inspire
4	Debangana Dey	PG	2014	INSA summer school
5	Amrita Bhattacharjee	PG	2015	INSA summer school

Name of the Faculty	Year of Award/Recognition	Nature of Award / Recognition
Dr. Pradip Kumar Kar	2015	Guest-of-Honour, Inaugural Programme celebrating 100 Years of Zoological Survey of India, Marine Aquarium Regional Centre, Digha, West Bengal

**24. List of Eminent Academicians and Scientists/ Visitors to the Department:**

	<b>Name of Eminent Academicians and Scientists/Visitors</b>	<b>Year</b>	<b>Purpose</b>	<b>Activities</b>
1	Dr. Mrinal Kumar Das, Grant MacEwn University, Canada	2010	To act as a resource person in the workshop on Cladistics 4 <sup>th</sup> January 2010	61 students and faculty members had participated in this hand-in training workshop
2*	Dr. Sanjukta Lahiri, Post Doctoral Fellow, BHU( <b>Ex student</b> )	2010	To deliver a seminar lecture 5 <sup>th</sup> October 2010	41 students and faculty members had participated in this programme
3*	Dr. Gunjan Guha, Post Doctoral Fellow, NIH, Oregon State University, USA( <b>Ex student</b> )	2010	To deliver a seminar lecture 5 <sup>th</sup> October 2010	41 students and faculty members had participated in this programme
4	Dr. Abhishek Ghosh, Clark Smith Brain Tumour Centre, University of Calgary, Canada	2011	To deliver a seminar lecture 13 <sup>th</sup> April 2011	40 students and faculty members had participated in this programme
5*	Dr. Suman Chatterjee, Department of Biological Science, Duquesen University, Pittsburgh( <b>Ex student</b> )	2011	To deliver a seminar lecture 17 <sup>th</sup> August 2011	27 students and faculty members had participated in this programme
6	Dr. Sonali Rudra, Department of Radiation Oncology John Hopkins University, USA	2011	To deliver a seminar lecture 3 <sup>rd</sup> September 2011	32 students and faculty members had participated in this programme
7	Dr. Mrinal Kumar Das, Grant MacEwn University, Canada	2011	To share his experience on his excursion to the Galapagos Island 21 <sup>st</sup> December 2011	84 students and faculty members had participated in this programme
8	Prof. D. Roychowdhury, University of Calcutta, Kolkata	2012	To deliver a seminar lecture on the biodiversity of North Bengal 1 <sup>st</sup> September 2012	40 students and faculty members had participated in this programme
9*	Sri. Debmalya Roychowdhury Project Officer, WWF ( <b>Ex student</b> )	2012	To deliver a seminar lecture on monitoring of tiger	37 students and faculty members had participated in this programme
10*	Dr. Manjari Jain Post Doctoral Fellow, University of Zurich, (Presently, Asstt. Prof., IISCR, Mohali) ( <b>Ex student</b> )	2012	To deliver a seminar lecture on acoustic communication of cricket 30 <sup>th</sup> November 2012	40 students and faculty members had participated in this programme
11	Dr. Sudip Kumar Ghosh Department of Biotechnology, IIT, Kharagpur	2013	To deliver a seminar lecture on encystations biology of <i>Entamoeba</i> 4 <sup>th</sup> February 2013	25 students and faculty members had participated in this programme

12*	Dr. Debapriya Chakraborty Post Doctoral Fellow, NCBS, Bangalore (Presently Post-Doctoral Fellow, LaCones, Hyderabad)( <b>Ex student</b> )	2013	To deliver a seminar lecture on dispersal of females in social primate 7 <sup>th</sup> March 2013	45 students and faculty members had participated in this programme
13*	Sri Ayan Sadhu Junior Research Fellow, Wildlife Institute, WII, Dehradun ( <b>Ex Student</b> )	2013	To deliver a seminar lecture on science of tiger conservation 7 <sup>th</sup> October 2013	27 students and faculty members had participated in this programme
14.	Dr B K Mahapatra , Central Institute of Fisheries Education	2013	To deliver a seminar lecture on breeding of indigenous ornamental fish 12 <sup>th</sup> April 2013	25 students and faculty members had participated in this programme ( DBT Star College Programme)
15*.	Dr. Snigdhadip Dey, PDF, Instituto Gulbenkian de Ciencia Oeiras, Portugal( <b>Ex student</b> )	2013	Coherence dynamics and stability in spatially structured and unstructured populations: bridging theoretical and experimental approach 7 <sup>th</sup> January 2013	20 students and faculty members had participated in this programme
15.	Dr P K Mukhopadhyya, Deputy Director, CIFE, Bhubaneswar	2013	To deliver a seminar lecture on Sewage water recycling through aquaculture	25 students and faculty members had participated in this programme( DBT Star College programme)
16.	Dr Sudip Kumar Ghosh, professor, IIT, Kharagpur	2013	To deliver a seminar lecture on Encystations Biology of <i>Entamoeba</i>	23 students and faculty members had participated in this programme
17*.	Dr Arunima Biswas, DST-INSPIRE Fellow, IICB, Kolkata ( <b>Ex Student</b> )	2014	To deliver a seminar lecture on Exploring amp Signalling: A decisive events required for Leishmania survival and infectivity inside host macrophage” 12 <sup>th</sup> March 2014	23 students and faculty members had participated in this programme
18.	Dr Akhil Banerjee, National Institute of Immunology	2014	HIV Biology and possible role of small RNA 5 <sup>th</sup> April 2014	49 students and faculty members had participated in this programme
19.	Dr Atanu Dutta Roy, Dept. of Biological science, Howard University, USA	2014	Good oxygen and harmful oxygen! Why we need the both, Story of peroxidise enzyme in Drosophila 9 <sup>th</sup> December 2014	51 students and faculty members had participated in this programme
20.	Dr Dwaipyan Bharadwaj, Genomic and Molecular medicine , CSIR institute of genomics & Integrative Biology, New Delhi	2015	Genetics of Complex disease 22 <sup>nd</sup> January 2015	56 students and faculty members had participated in this programme

	Dr Prarthana Ghosh, PDF, University of Alabama ( <b>Ex Student</b> )	2015	An investigation of elevated level of mercury in the largemouth bass. 28 <sup>th</sup> February 2015	37 students and faculty members had participated in this programme
21*	Sri Dibyadeep Chatterjee, JRF Wild life Institute ( <b>Ex student</b> )	2015	Career in wild life Biology 5 <sup>th</sup> February 2015	20 students and faculty members had participated in this programme
21.	Dr Sanjay Mallick, Chief Scientist & Director, Cytosolution Pvt. Ltd	2015	Flow Cytometry and its application in Life Science 9 <sup>th</sup> April 2015	62 students and faculty members had participated in this programme
22.	Dr Ellora Sen, Scientist, NBRC, Haryana	2015	Decoding signalling network in cancer: lesson learnt 13 <sup>th</sup> April 2015	48 students and faculty members had participated in this programme
23	Dr Kailash Chandra, Scientist F & Additional Director	2015	Biodiversity in India 29 <sup>th</sup> April 2015	39 students and faculty members had participated in this programme
23	Dr Sanjoy Ghosh, Research Scientist , Functional Genomics Lab, University of Oxford	2015	From synthesis to destination - how nuclear history determines RNP architecture and dynamics in the cytoplasm 29 <sup>th</sup> September 2015	48 students and faculty members had participated in this programme

\*Ex student of Department of Zoology, Maulana Azad College

### 25. Seminars/ Conferences/Workshops organized & the source of funding:

	Seminars/ Conferences/ Workshops organized	Name of the Seminars/ Conferences/ Workshops organized	Date, Year	National/ International	Source of funding
1	Workshop	Understanding Cladistics	4 <sup>th</sup> January, 2010	National	IGNOU
2	Seminar	Understanding biodiversity: Assessment, Analysis and Conservation	25 <sup>th</sup> – 27 <sup>th</sup> February, 2011	National	UGC
3	Workshop	Hands on training on Techniques to Explore the Frontiers of Modern Biological Sciences	9 <sup>th</sup> - 10 <sup>th</sup> Nov., 2011	National	DBT
4	Workshop	Hands on training on Tiger Census and estimation of thyroid hormone	31 <sup>st</sup> August, 2012	National	DBT
5	Workshop	Hands on training on Assay of Nuclear Aberration in Buccal Epithelium and Camera Trapping	7 <sup>th</sup> -8 <sup>th</sup> October, 2013	National	DBT
6.	Workshop	Induced breeding of Fish and preparation of fish meal	2013	National	DBT
7	Workshop	Ornamental Fish breeding technique at CIFE	2013	National	DBT
8	Workshop	Identification of different varieties of mutants of <i>Drosophila</i>	2014	National	DBT
9	Workshop	Hands on training of fruit fly	2014	National	DBT

	Seminars/ Conferences/ Workshops organized	Name of the Seminars/ Conferences/ Workshops organized	Date, Year	National/ International	Source of funding
		<i>Drosophila</i> culture, identification of sex comb and <i>Drosophila</i> food preparation			
10	Workshop	Preparation of polytene chromosome from salivary gland and Malpighian tubules	2014	National	DBT
11	Workshop	Demonstrating recent technique on poultry farming	2014	National	DBT
12	Workshop	Collection, preservation & identification of metazoan parasite from common edible fish	2015	National	DBT
13	Workshop	Hands on training on taxonomy & Biodiversity	2015	National	DBT & ZSI

### 26. Student Profile Programme/Course wise:

Name of the Course/ programme (refer question no.4)	Applications received	Selected	Enrolled			
			M	F	Minorities	% Passed A= Appeared
B.Sc.Hons(entry year 2010)	520	25	7	18	3	92
B.Sc.Hons(entry year 2011)	540	30	5	25	3	94
B. Sc..Hons(entry year 2012)	1500	33	8	25	2	96
B. Sc..Hons(entry year 2013)	1200	35	9	24	2	97
B. Sc. Hons(entry year 2014)	1265	38	10	28	2	98
M.Sc.(entry year 2010)	405	25	5	20		100
M.Sc.(entry year 2011)	467	25	9	16		100
M.Sc.(entry year 2012)	510	25	5	20		100
M.Sc.(entry year 2013)	537	22	5	17		100
M.Sc.(entry year 2014)	587	24	8	16		100

### 27. Diversity of Students:

Year	Name of the Course	Student from the same state (%)	Students from other States (%)	Students from abroad (%)
2010	UG	100	Nil	Nil
	PG	100	Nil	Nil
2012	UG	100	Nil	Nil
	PG	100	Nil	Nil
2011	UG	100	Nil	Nil
	PG	100	Nil	Nil
2013	UG	100	Nil	Nil
	PG	100	Nil	Nil
2014	UG	100	Nil	Nil
	PG	100	Nil	Nil

**28. How many students have cleared National and State Competitive Examinations such as NET, SLET, GATE, Civil services, Defence services, etc.?**

Exam	2010	2011	2012	2013	2014	2015
NET	04	06	-	01	03	02
GATE	-	01	-	-	01	-
Civil service	-	-	-	-	01	-
School service	04	12	10	05	04	
Defence Service	01	-	01	-	-	-

**29. Student Progression:**

Student Progression	Against % Enrolled
UG to PG	70
PG to M.Phil.	Nil
PG to Ph.D.	10
Ph.D. to Post-Doctoral	10
Employed	60
Campus selection	Nil
Other than campus recruitment	Yes
Entrepreneurship/Self-employment	Nil

**31. Details of Infrastructural facilities:**

- a) **Library :** Yes  
 • Number of Titles in seminar Library : 800
- b) **Internet facilities for Staff and Students:** Yes  
 • Number of computers with internet link : 10
- c) **Class rooms with ICT facility :** 4  
 • Number of E-classrooms: Nil  
 • Wi-Fi connectivity: Yes
- d) **Laboratories:**

Balance room	Yes
Animal house	Yes
Tissue culture lab	Yes

**32. Number of students receiving financial assistance from college, university, government or other agencies:**

Scheme	2010-11	2011-12	2012-13	2013-14	2014-15
Merit-cum-means Scholarship		02 + 01 (PG) (Rs.21600/- + Rs.16800/-)	01 (PG) (Rs.16800/-)	02 (Rs.21600/-)	01 (Rs.10800/-)
Student Aid Fund	01 (Rs.1700/-)	01 + 02 (PG) (Rs.3650/- + Rs.4084/-)			
Kanyashree Prakash K-2				02 (Rs.50000/-)	
CPE GRANT (SC/ST/OBC) Non Creamy Layer & Minority Girls			02 (PG) (Rs.9100/-)		
UGC (Rajib)					5

Gandhi & Maulana Azad fellowship)					
DST inspire				2	3
INSA Summer school					2

### 33. Details on student enrichment programmes (special lectures / workshops / seminar) with external experts :

Programme	2010	2011	2012	2013	2014
DBT Star College Workshop	0	2	2	2	3
SEBCA	0	2	2	2	3
Departmental seminar	3	4	3	3	8

### 34. Teaching methods adopted to improve student learning :

	Teaching Methods	
1	ICT	Yes
2	Industry visit	Yes
3	Laboratory visit	Yes
4	Peer meet	Yes
5	Field tour	Yes
6	Student projects	Yes
7	Student publications with teachers	Yes
8	Any other (Visit to Science Express Biodiversity Special)	Yes

### 35. Participation In Institutional Social Responsibility (ISR) And Extension Activities:

- i) The National Service Scheme (NSS)
- ii) Campus cleaning drive
- iii) Women empowerment initiatives
- iv) Gender sensitization program
- v) School of Environment Biodiversity Awareness (SEBCA)
- vi) Alumni Meet (ALZOOMAC)
- vii) Iftar

### 36. SWOC Analysis and Future Plans:

#### ⇒ Strength of the Department

- Good Laboratory. Research infrastructure,
- CPCSEA approved animal house,
- All ICT Class room,
- On line journal facility through Infflibnet & Delnet
- Introduction of new CBCS semester syllabus in Postgraduate course
- Interactive alumni
- Significant improvement of result
- Societal responsible activities through SEBCA
- Electronically supplied Lecture material at UG/PG level
- Extensive Hands on training during field excursion with modern gadgets like GPS, Camera Trap, Laser Range Finder etc.
- Provision for Hands on training to UG students beyond curriculum from DBT Star College scheme
- Well placed supportive ex students

**⇒ Weakness**

- Inadequate space; space required for more classroom and laboratory facility
- Inadequate support staff and faculty
- Lack of scope to provide training to the pass-outs for various professional courses
- Limitation of opening of new specialization/ elective course in Postgraduate course

**⇒ Opportunities**

- Faculty members are continually enriched by addressing the demands of PG course
- Job experience and administrative exposures increase the acceptability of the faculty for higher job ambition at University level
- Ph.D. recognized centre by Universities
- Scope for all faculty members acting as Principal Investigator in various research project

**⇒ Challenges**

- Constrained by time and space to cope with the pace of advancement in the arena of Biological Sciences

**⇒ Future Plans:**

- ❖ Invite Resource Persons from various Research Institutions to deliver Special Lectures in modern biology oriented topics.
- ❖ We planned to continue UGC sponsored training programme for aspirants of NET/SLET/GATE among the final year PG students.
- ❖ We propose to conduct Career Guidance Programme for final year of UG & PG students.
- ❖ We planned to go for more Industrial Visit (Sericulture, Fishery etc) during the academic year 2015-2016.
- ❖ We plan to continue the environmental awareness programme on Biodiversity (SEBCA).
- ❖ We would like to start Faculty Exchange Programme as well as Student Exchange Programme with Academic Institutions of considerable repute, both nationally and internationally.
- ❖ We would like to nurture young minds and train them as ardent soldiers of Biodiversity Conservation – the need of the hour.



## POST ACCREDITATION INITIATIVES

Maulana Azad College has made attempts to address areas pointed out by the Peer Team at the time of the 1<sup>st</sup> Cycle of Accreditation in 2007. The College has also upgraded in several areas in academics and research for the benefit of its stakeholders. The Self Study Report demonstrates all the initiatives and achievements made in the post accreditation period.

Actions taken in response to the recommendations of NAAC Peer Team during the 1<sup>st</sup> Cycle of Accreditation:

<b>Recommendations</b>	<b>Actions Taken</b>
<ul style="list-style-type: none"> <li>➤ Need to work out more detailed plan of action to realise the goals and objectives of the institution</li> </ul>	<ul style="list-style-type: none"> <li>✓ Drive for submission of more proposals to funding authorities like UGC, DST, DBT etc.</li> <li>✓ Steps to provide Hostel accommodation for Girls students coming from remote areas</li> <li>✓ To Encourage faculties for research and advanced studies and to provide required infrastructural facilities to them</li> <li>✓ To introduce more Honours and Post graduate courses in prospective subjects</li> <li>✓ To motivate students to join NSS and other allied outreach programmes</li> <li>✓ To increase the visit of academic peers and to collect feedback from these visitors</li> <li>✓ Proper and judicious utilization of development grants from higher education department and other funding agencies</li> <li>✓ To introduce special measures to monitor student attendance, discipline, and also to redress their grievances</li> <li>✓ Review of existing admission system to make it more transparent and student friendly</li> </ul>
<ul style="list-style-type: none"> <li>➤ More systematic and formal interaction with outside academic community, academic peers, employers etc.</li> </ul>	<ul style="list-style-type: none"> <li>✓ Regular interaction with eminent scientists and peer bodies like affiliating University, UGC, DBT, and DST enrich the academic quotient of the institution.</li> </ul>
<ul style="list-style-type: none"> <li>➤ Network with Business/Industrial houses for academic excellence and assistance</li> </ul>	<ul style="list-style-type: none"> <li>✓ Interacted with East India Pharmaceuticals, IFB Agro and Kalyani Breweries.</li> <li>✓ Recruitment through campus selection has been initiated</li> </ul>
<ul style="list-style-type: none"> <li>➤ Encouragement for use of modern technology in teaching-learning-evaluation</li> </ul>	<ul style="list-style-type: none"> <li>✓ ICT based class rooms with interaction with students through power point presentation, internet browsing facilities through Wi-Fi, sophisticated instruments for up gradation of science laboratories; animal and plant tissue culture laboratories are introduced for upliftment of teaching learning process.</li> </ul>

Recommendations	Actions Taken
➤ Strive towards getting more number of 1 <sup>st</sup> class	✓ Periodical departmental seminars, surprise class tests, tutorial classes, extra classes are conducted for advanced learners and side by side remedial classes are taken for slow learners. Consequent effect is reflected from steady increase in number of 1 <sup>st</sup> classes.
➤ Establishment of commerce laboratory	✓ Commerce laboratory is established with computer facilities for students.
➤ Establishing the Language Lab with financial assistance from UGC	✓ A language laboratory is established comprising of five language departments with the financial assistance from UGC-CPE.
➤ Total computerisation of office and other services	✓ Computerisation of Office and Library of the college has already been done. COSA and KOHA software, INFLIBNET have been introduced.
➤ Establishment of Alumni Association, keeping their latest profile and using their services	✓ Alumni association is established and their activities include: celebration of birth anniversary of Maulana Abul Kalam Azad, year-long celebration of 125 <sup>th</sup> Years of Maulana Abul Kalam Azad, College foundation day, blood donation camp etc. They also have extended their service to arrange Mushaira, Iftar Party, annual prize distribution etc.
➤ Strengthen formal mechanism to get feedback from all the stakeholders and collaborators	✓ Student feedbacks are regularly taken and analyzed to maintain the quality of teaching-learning process. Initiatives are taken to regularise the mechanism of feedback from other stakeholders and collaborators like University peers, DBT, DST, and UGC etc.
➤ Professional development programmes for faculties and staff	✓ Professional development programmes for faculties and staff have been arranged. Computer training programmes for office staff have been initiated.
➤ Compulsory computer and communicative English courses for all students	✓ A large number of students got opportunity to develop their basic computer skill initiated by the institution.
➤ Parent-Teacher association to be established	✓ Regular meetings are arranged with the parents to get proper suggestions
➤ Introducing PG courses in English, Urdu, Bengali, History, Political Science, Economics and Commerce.	✓ New PG courses have been introduced in English and Urdu departments in the year 2009.

Recommendations	Actions Taken
➤ Introduction of Honours courses in Botany, Environmental Science, Computer Science and Comparative Literature	✓ Honours in Botany have been introduced in the year 2008.
➤ More number of Text Books especially in science subjects to be procured in library	✓ Appreciable numbers of text books especially in science have been procured
➤ The Library requires to be equipped with popular journals and magazines	✓ College library is now well equipped with journals and magazines including online journals both in science and humanities.
➤ Hostel could be provided more wash rooms and wash basins on each floor	✓ Hostel facilities for Boys have been extended and more numbers of washrooms are provided.
➤ IQAC may be formed for internalizing healthy practices	✓ IQAC has been formed and is operative from <b>09/10/2008</b>
⇒ <b>Major Achievements apart from those mentioned above during post Accreditation period</b>	<ul style="list-style-type: none"> <li>• The college got the UGC-CPE (Centre for Potential Excellence) status in the year 2010</li> <li>• 25 areas of assistance under UGC CPE scheme became operational</li> <li>• The college got the DST-FIST assistance in the year 2010.</li> <li>• The college is enriched with DBT star college programmes from 2011, which is successfully running. A considerable numbers of seminars, workshops, hands-on-training programmes are arranged for the students throughout the year.</li> <li>• A Hostel for Girl students is under last phase of construction and is expected to be completed shortly.</li> <li>• Total cost of sanctioned major and minor research projects is approximately above Rs. 60 lakh.</li> <li>• DBT-BOOST, Govt. of WB has sanctioned Rs. 35 lakh as equipment grant for the PG department of Zoology.</li> <li>• Approximately 165 articles were published in reputed journals since 2010.</li> </ul>



## CERTIFICATE OF DECLARATION



सममते जयते  
Govt. of West Bengal

### Maulana Azad College

8, Rafi Ahmed Kidwai Road, Kolkata-700013, West Bengal, India  
Phone : +91 33 2249-3737/2226-7814 Fax: +91 33 2249-3737/2226-4306  
Web : www.maulanaazadcollege.in e-mail : maulanaazadcollegekolkata@gmail.com



Memo No. 503/NAAC

Date: 14/12/2015

### Declaration by the Head of the Institution

I certify that the data included in this Self-study Report (SSR) are true to the best of my knowledge.

This SSR is prepared by the Institution after internal discussions, and no part thereof has been outsourced.

I am aware that the Peer team will validate the information provided in this SSR during the peer team visit.

Date: 14.12.2015

Place: Kolkata

Principal/ Head of the Institution

(Signature with Office seal)

Principal  
Maulana Azad College  
Kolkata



## Annexure-I: Copy of 2(f)/12(B) Certificate

Welcome to UGC, New Delhi, India

[http://www.ugc.ac.in/recog\\_College.aspx](http://www.ugc.ac.in/recog_College.aspx)
[Home](#)
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[Colleges](#)
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## Universities &amp; Colleges

- Colleges Under Section 2(f) & 12(B)
- Autonomous Colleges
- Colleges With Potential for Excellence
- Academic Staff Colleges
- Universities (UPE)
- Centres (CPEPA)
- Basic Scientific Research
- Visiting Committee Reports
- Central Universities
- State Universities List
- Deemed Universities
- Private Universities
- Fake Universities

## Colleges under section 2 (f)&amp; 12(B) of the UGC Act 1956

Consolidated List of Colleges under section 2(f)/12(B) as on 31.08.2015

The University Grants Commission (UGC) provides financial assistance to eligible colleges which are included under Section 2(f)\* and declared fit to receive central assistance (UGC grant) under Section 12 (B)\*\* of UGC Act, 1956 as per approved pattern of assistance under various schemes.

\* The UGC had notified Regulations for recognition of colleges under Section 2(f) of the UGC Act, 1956. The colleges are brought under the purview of UGC in terms of these Regulations as and when the proposals are received from the colleges for inclusion under Section 2(f) and they are found fit for inclusion as per the provisions contained in the Regulations.

\*\* Apart from inclusion of colleges under Section 2(f), the UGC includes the Colleges under Section 12(B) of its Act in terms of Rules framed under the Act. This makes the colleges eligible for central assistance from the Government of India or any organization receiving funds from the Central Government.

[Colleges Search by State](#)
[Grants Released to colleges](#)

## Colleges Search by State

West Bengal

[Search](#)

S.No.	College	University	Status
201	Katwa College Katwa, Distt., Burdwan, West Bengal West Bengal		Under Section : 2(f)&12(B)
202	Kazi Nazowel Islam Mahavidyalaya Kabiërtha Churulia, Distt., Burdwan, West Bengal West Bengal		Under Section : 2(f)&12(B)
203	Khalisani Mahavidyalaya Khalisani (Chander Nagore), Distt., Hooghly, West Bengal West Bengal		Under Section : 2(f)&12(B)
204	Khandra College Khandra, Distt., Burdwan, West Bengal West Bengal		Under Section : 2(f)&12(B)
205	Kharagpur College Midnapore, Distt., Midnapore, West Bengal 721 305 West Bengal 721 305		Under Section : 2(f)&12(B)
206	Khatra Adibasi Mahavidyalaya P.O. Khatra, Distt., Bankura, West Bengal West Bengal		Under Section : 2(f)&12(B)
207	Khajuri College Baratala, Distt., Purba Medinipur, West Bengal West Bengal		Under Section : 2(f)&12(B)
208	Kidderpore College 2- Pitambar Sarker Lane Calcutta -23, Distt., Calcutta West Bengal West Bengal		Under Section : 2(f)&12(B)
209	Krishna Chandra College Hetampur, Distt., Birbhum, West Bengal West Bengal		Under Section : 2(f)&12(B)
210	Krishnagar Govt. College Krahnagar, Distt., Nadia, West Bengal West Bengal		Under Section : 2(f)&12(B)
211	Krishnagar Womens' College Nadia, Distt., Nadia, West Bengal West Bengal		Under Section : 2(f)&12(B)
212	Krishnath College Berhampore, Distt., Murshidabad, West Bengal 742 101		Under Section : 2(f)&12(B)

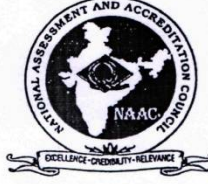
Welcome to UGC, New Delhi, India

[http://www.ugc.ac.in/recog\\_College.aspx](http://www.ugc.ac.in/recog_College.aspx)

230	Mahishadal's Girls College Mahishadal, Distt., Midnapore, West Bengal 721 628 West Bengal 721 628		Under Section : 2(f)&12(B)
231	Malda College Malda, Distt., Malda, West Bengal 732 101 West Bengal 732 101		Under Section : 2(f)&12(B)
232	Malda Women's College Malda, Distt., Malda, West Bengal 732 101 West Bengal 732 101		Under Section : 2(f)&12(B)
233	Manbhurn Mahavidyalaya Manbazar, Distt., Purulia, West Bengal West Bengal		Under Section : 2(f)&12(B)
234	Mankar College Mankar, Distt., Burdwan, West Bengal West Bengal		Under Section : 2(f)&12(B)
235	Mathabhanga College Mathabhanga, Distt., Cooch Behar, West Bengal 736 146 West Bengal 736 146		Under Section : 2(f)&12(B)
236	Maulana Azad College 8-Rafi Ahmed Kidwai Road Calcutta - 13, Distt., Calcutta West Bengal West Bengal		Under Section : 2(f)&12(B)
237	MCKV Institute of Engineering 243, G.T. Road (North), Liluah, Howrah, West Bengal 711 204 West Bengal 711 204	West Bengal University of Technology	Under Section : 2(f) File No. 8-93/2013(CPP-I/C)
238	Medical College 88- College Street Calcutta - 12, Distt., Calcutta West Bengal West Bengal		Under Section : 2(f)&12(B)
239	Memari College Memari, Distt., Burdwan, West Bengal West Bengal		Under Section : 2(f)&12(B)
240	Michael Mathhusudan Memorial College P.O.-Dungapur, Distt., Burdwan, West Bengal West Bengal		Under Section : 2(f)&12(B)
241	Midnapore College Midnapore, Distt., Midnapore, West Bengal West Bengal		Under Section : 2(f)&12(B)
242	Midnapore Law College P.O.Vidyasagar University, Distt., Paschim Medinipur West Bengal 721 102 West Bengal 721 102	Vidyasagar University	Under Section : 2(f)&12(B)
243	Moyna College Moyna, Distt., Midnapore, West Bengal 721 401 West Bengal 721 401		Under Section : 2(f)&12(B)
244	Mrinalini Dutta Mahavidyalaya Vidyapith Road Birati, Kolkata, West Bengal 700 118 West Bengal 700 118	West Bengal State University	Under Section : 2(f)&12(B) File No., 8-240/2010(CPP-I/C)
245	Mugheria Gangadhar Mahavidyalaya P.O. Bhupati Nagar, Distt., Midnapore, West Bengal 721 425 West Bengal 721 425		Under Section : 2(f)&12(B)
246	Muralidhar Girls College P411/14 Garihat Road Calcutta - 29., Distt., Calcutta West Bengal West Bengal		Under Section : 2(f)&12(B)
247	Murshidabad Adarsha Mahavidyalaya		Under Section : 2(f)&12(B)



## Annexure-II: Copy of Accreditation Certificate 2007



राष्ट्रीय मूल्यांकन एवं प्रत्यायन परिषद  
विश्वविद्यालय अनुदान आयोग का स्वायत्त संस्थान  
NATIONAL ASSESSMENT AND ACCREDITATION COUNCIL  
An Autonomous Institution of the University Grants Commission

## Certificate of Accreditation

*The Executive Committee of the  
National Assessment and Accreditation Council  
on the recommendation of the duly appointed  
Peer Team is pleased to declare the  
Maulana Azad College  
Kolkata, affiliated to University of Calcutta, West Bengal as  
Accredited  
at the B<sup>++</sup> level.*

Date : March 31, 2007



*M. Arad*  
Director

- This certification is valid for a period of Five years with effect from March 31, 2007
- An institutional score (%) in the range of 55-60 denotes C grade, 60-65-C' grade, 65-70-C'' grade, 70-75- B grade, 75-80- B' grade, 80-85-B'' grade, 85-90- A grade, 90-95-A' grade, 95-100-A'' grade (upper limits exclusive)

March 31, 2007/258