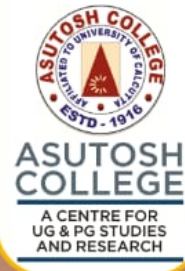


REPORT OF ACADEMIC AUDIT



Session
2022 - 2023



ASUTOSH COLLEGE

92, S.P. Mukherjee Road, Kokata - 26

Preface

Academic audit is a fundamental part of any institution to evaluate the efficacy and effectiveness of the academic procedures. The main function of the academic audit team is to document the information pertaining to the academic setups and progress to boost up the constant advancement in education.

Asutosh College, affiliated to the University of Calcutta, stands as a prominent landmark in the educational landscape of Kolkata. Established in 1916 by Sir Asutosh Mookerjee, a pioneer of modern education in India, it originally bore the name South Suburban College. In 2002, Asutosh College became the first college in West Bengal to undergo Assessment and Accreditation by the National Assessment and Accreditation Council (NAAC) of India, under the new scheme initiated by the UGC. Presently, it offers Undergraduate courses in twenty-eight subjects, 6 Postgraduate courses and 20 various certificate courses. The college received NAAC Accreditation Grade A in the second NAAC assessment, 2016. In response to academic and curricular growth, the college has expanded physically and infrastructurally. It boasts of a digital presence with a website developed by Infotech lab, Kolkata and maintained by Computer and IT section, Asutosh College. Asutosh College has six campus buildings, four in the vicinity of 92 S. P. Mukherjee Road, one on Kalighat Road, and one at Bhasa, South 24 Parganas. The college has emerged today also as a centre for postgraduate studies and research. To facilitate research needs, the Asutosh College Research Centre was set up in 2020, as a dedicated multidisciplinary research centre with the aim of stimulating an on-campus research environment with state-of-the-art equipment in addition to online resources.

The college encourages sports participation and has its own sports unit in the Kolkata Maidan. In cultural activities, students consistently excel in inter-college events in the city. The College has its NSS and NCC units, engaging students in social upliftment and personality development activities. To promote environmental awareness, an Eco Club is active, and the Bhasa campus incorporates eco-friendly practices. The college's motto, "Jnan Jetha Mukto," which translates to "Where Knowledge is Free," encapsulates its mission to disseminate knowledge without discrimination in alignment with Rabindranath Tagore's vision of education. This vision emphasises a holistic approach to liberate minds and spirits from ignorance, prejudice, and unreason.

College Extended Profile

| Particulates | Number |
|---|--------|
| Number of courses offered by the institution across all programmes during the year | 837 |
| Number of students during the year | 5348 |
| Number of seats earmarked for reserved category as per GOI/ StateGovt. rule during the year | 1299 |
| Number of outgoing/ final year students during the year | 1636 |
| Number of full-time teachers during the year | 188 |
| Number of sanctioned posts during the year | 199 |
| Total number of Classrooms and Seminar halls | 69 |
| Total number of computers on campus for academic purposes | 291 |

Academic Audit Committee

External members

Dr.Indrila Guha, Principal, Basanti Devi College
Dr. Somnath Mukhopadhyay, Principal, Dinabandhu Andrews College
Dr. Sk. Rafikul Hossain, Department of Bengali, University of Calcutta
Dr.Parthiba Basu, Department of Zoology, University of Calcutta
Dr. Jayanti Das, Professor, Department of Education, Calcutta University

Internal members

Dr. Manas Kabi, Principal, Asutosh College
Dr. Sraboni Roy, Associate Professor, Department of English, Asutosh College
Dr. Sriparna Datta Ray, Co-ordinator, IQAC, Asutosh College
Dr.Keya Ghosh, Convenor, Academic Sub-Committee
Dr. Shyamalina Halder, Assistant Professor, Department of Biochemistry, Asutosh College

Objective

This academic audit was aimed at assessing and enhancing the overall quality of education and institutional processes at Asutosh College, so that it would serve as a valuable tool for continuous improvement.

Scope of the Audit

During a meeting held on 28th July, 2023, Dr. Manas Kabi, Principal of Asutosh College, outlined the objectives and significance of conducting an academic audit. This audit was to be

carried out by a team of auditors consisting of the aforementioned members. In the meeting, it was decided that the audit team would visit all the campuses.

Scope of the academic audit encompassed the following areas:

- Teaching-Learning Methodology
- Examination and Evaluation Procedures
- Functioning of Departmental Laboratories and ICT Facilities
- Assessment of the Central Research Facility and Central Library
- Evaluation of the Outreach Programmes conducted by the college
- Review of the Functioning of the Internal Quality Assurance Cell (IQAC)
- Identification of Opportunities for Improvement in Various Aspects

Method of Academic Audit

During the initial meeting held on 28th July, 2023, key stakeholders including the Principal, IQAC Coordinator, Convenors of Academic Sub-committee, Examination In-Charge and Departmental Heads convened to discuss various aspects of the college. The Principal gave an overview of the college's activities and facilities with the updates on new ideas and developments in various areas within the college. Following this introductory meeting, the audit team conducted a site visit to the college on 7th to 9th August, 2023. During their visit, they visited different departments, engaging in conversations with faculty members to enquire about the utilisation and functionality of resources such as central and departmental libraries, laboratories, ICT infrastructure, and other related facilities. The team also made an informative visit to the central research facilities, including the BOOST lab. Furthermore, the audit team actively interacted with both students and non-teaching staff members from various departments. They held separate discussions with administrative heads of the college to gather valuable insights into the administrative processes.

A significant part of their assessment involved a detailed examination of the examination and evaluation procedures in place within the college. The audit team meticulously examined the various components of this process.

Additionally, the team visited the Bhasa Campus, often referred to as the Green Campus, where they evaluated the functionality of facilities such as the bio-gas plant, rainwater harvesting system, integrated farming practices, solar power plant, and medicinal garden.

Based on the information and data acquired through document review and interactions with different stakeholders within the college, the Audit Committee diligently compiled a set of perspectives, observations, and recommendations. These insights are presented within the body of this report, with the hope that the recommendations will be considered and implemented in the near future, contributing to the ongoing enhancement of the college's operations and facilities.

Schedule of Academic Audit

| Sl No. | Date | Time |
|--------|----------------------------------|------------|
| 1 | 07.08.2023 | 11 am -4pm |
| 2 | 08.08.2023 | 11 am -4pm |
| 3 | 09.08.2023 | 11 am -4pm |
| 4 | Submission of report: 11.08.2023 | |

Outcome of Academic Audit

At the end of each semester, a comprehensive audit is conducted to assess the progress and quality of academic activities. This audit aims to compare the initial status with the outcomes following various observations. Subsequently, a series of follow-up actions are implemented to maintain and enhance educational quality:

- Incorporating Feedback: Faculty members actively incorporate suggested changes and improvements provided by the academic committee to ensure the delivery of high-quality education.
- Adapting to Student Needs: Faculty members adjust their teaching pace and lecture schedules to align with students' requirements while ensuring timely syllabus completion. They may schedule extra lectures as needed to cover the curriculum adequately.
- Result Analysis: A regular analysis of internal assessment examination results for all subjects is carried out based on which necessary action is taken.
- Remedial Classes: In response to students' academic progress, remedial classes are organized to provide additional support and assistance, helping students improve their performance.
- Faculty Development Programmes (FDP): Faculty members actively participate in FDPs tailored to enhance their teaching skills, including communication, instructional methods, and technical expertise, contributing to their overall professional development.
- Timely Academic Audit: The academic audit is conducted at the beginning of each semester as soon as faculty members finalize their course files, ensuring a proactive approach to quality assurance.
- Feedback and Randomized Observation: Academic observations are based on two criteria: feedback from students, which is solicited from the relevant authorities, and randomized observations, providing a comprehensive view of teaching effectiveness.

- Professional Development Workshops: The college's Learning and Development Department regularly conducts FDPs to enhance communication skills and improve teaching and learning methods.
- Technical Workshops and Seminars: Departments organize technical FDPs, expert lectures, seminars, and related activities at least once per semester. These events enrich faculty members' subject knowledge and teaching capabilities.
- These follow-up actions are integral to the college's commitment to maintaining and improving the quality of education. By actively addressing feedback, adapting to student needs, and participating in professional development, faculty members continuously enhance their teaching skills, contributing to the overall excellence of the institution.

Courses Offered by the College

With a commitment to providing quality education, the college offers a plethora of undergraduate and postgraduate programmes across various disciplines.

Overview

Undergraduate Programmes:

The college provides degrees in Bachelor of Science (B.Sc.), Bachelor of Arts (B.A.), Bachelor of Business Administration (BBA) and B.Voc.

Postgraduate Programmes:

At the PG level the college provides Master of Science (M.Sc.) and Master of Arts (M.A.) degrees.

Certificate Courses:

In addition to the mainstream UG and PG programmes, Asutosh College offers a wide range of add-on and certificate courses that provide students with additional skills and knowledge to complement their main fields of study.

Overall, Asutosh College's extensive course offerings reflect its pledge to providing a holistic and diverse education that prepares students for a variety of career paths and academic pursuits. The college's dedication to academic excellence and innovation is evident in its diverse and comprehensive curriculum.

List of running courses

Job Oriented Certificate Courses

- o Herbal Plant Benefits and Scope
- o Industrial Chemistry
- o Biomolecular Interactions in Clinical and Molecular Cell Biology
- o Wildlife Conservation
- o India: Geography, Resources and People
- o Fundamentals of Psychology, Community Intervention and Life Style Management

- o Latex
- o Basic Electronics in Daily Life
- o Bioinformatics and Computational Biology
- o Apiculture and Sericulture
- o Ornamental Fish Keeping and Basics of Aquaponic Farming
- o Institutional Communication & Public Speaking
- o Social Entrepreneurship & Social Work
- o Travel and Tourism
- o Human Rights
- o Entrepreneurial Management
- o Fundamentals of Mathematics and Statistics

Certificate Courses

- o Basic Computer Course
- o Career Counselling and Training Programme
- o Soft Skills

Under-Graduate Courses:

- o Bengali
- o Communicative English
- o English
- o Journalism
- o History
- o Philosophy
- o Political Sc
- o Sanskrit
- o Sociology
- o BBA
- o B.Voc (SD)
- o B.Voc (IAF)
- o Biochemistry
- o Botany
- o Chemistry
- o Computer Science
- o Economics
- o Electronics
- o Environmental Science
- o Geography
- o Geology
- o IFF

- o Mathematics
- o Microbiology
- o Physics
- o Psychology
- o Statistics
- o Zoology

Post-Graduate Courses:

- o Bengali
- o Computer Science
- o Environmental Science
- o Geography
- o Geology
- o Zoology

Teaching-Learning Methodology

To ensure the effective delivery of the course curriculum, Asutosh College employs a comprehensive monitoring system overseen by the Academic Sub-committee. The college takes several proactive measures throughout the academic year, as outlined below:

- Orientation Programme - "KNOW YOUR COLLEGE" (KYC): A comprehensive orientation programme is organized for incoming students by their respective departments. This programme, known as KYC, familiarizes students with the various facilities available on campus. Additionally, an informative video is shared with students to provide insights into the college's resources and services.
- Anti-Ragging Committee: Asutosh College maintains a safe and welcoming environment by enforcing a strict anti-ragging policy. An Anti-Ragging Committee ensures that students can pursue their education without fear of harassment from seniors.
- Routine Distribution and Accessibility: Students receive their academic schedules (routines) prior to the start of classes, and these schedules are readily available on the college website. Classes are conducted regularly in accordance with the master routine.
- Curriculum Distribution: The course curriculum is efficiently distributed among departmental faculties through a well-documented process. Heads of Departments oversee the timely completion of syllabi.
- Educational Tours and Industry Visits: To provide students with practical exposure to their chosen fields, the college organizes educational tours and visits to relevant industries and academic institutes. These experiences offer real-world insights aligned with the course curriculum.
- Certificate Courses: Students are equipped for the job market through three compulsory certificate courses during odd semesters. These courses cover basic computer skills,

career counselling and training, and soft skills essential for interviews and professional success.

- Internal Class Tests and Remedial Classes: Regular internal class tests monitor student progress, and remedial classes are conducted to support students who require additional assistance. Test results are documented and shared with the Academic Subcommittee.
- Modern Teaching Tools: Various ICT tools, LCD projectors, laptops, and internet connections are employed to enhance teaching methods, moving beyond traditional chalk-and-talk approaches.
- Alumni Lectures: Alumni are invited regularly to share their life experiences and inspire current students. These sessions provide valuable insights into the career after completing the course curriculum.
- Visiting Faculties: Expert faculty members from external institutions contribute to the academic environment by conducting classes for undergraduate and postgraduate students.
- Result Analysis: After exam results are published, the administration and department heads engage in result analysis to identify areas for improvement.
- Student Awards: Outstanding students from all departments receive recognition and awards during the annual prize distribution programme, motivating and inspiring their juniors.
- Library Resources: Books from both the central library and departmental seminar libraries are made available to students, with careful documentation of borrowing records. The college regularly updates its library collection.
- Job-Oriented Certificate Courses: Seventeen job-oriented certificate courses are offered during even semesters, allowing students to enhance their skills and prepare for future job opportunities in multidisciplinary fields.
- Extracurricular Activities: Asutosh College encourages students to participate in extracurricular activities through clubs and units, including the Adventure Club, Eco Club, Student Talent Care Unit, and Cultural Unit. These provide opportunities for physical activities and talent showcase beyond academics.
- These initiatives reflect the college's commitment to providing a well-rounded educational experience that goes beyond the traditional classroom setting, equipping students with valuable skills and experiences for their personal and professional growth. These measures collectively contribute to a robust teaching-learning environment at the college, fostering effective education and skill development among its students.

Students' internship/industrial training

| Department | Course | Semester | Internship/Industry Visit |
|------------|--------|--------------|---|
| BBA | UG | VI | Project/ Dissertation at own department |
| BOTANY | UG | I,II,III, IV | Field Visit |

| | | | |
|-----------------------------|----|-----------------------|---|
| B.VOC- IAF | UG | V, VI | Industry visit to Ramkrishna Ashram Krishi Vigyan Kendra (RAKVK), Nimpith and Ornamental Fish Farm at Bandhab Aqua, Burorhat |
| B.VOC- SOFTWARE DEVELOPMENT | UG | VI | Project/ Dissertation at own department |
| CHEMISTRY | UG | VI | Project/ Dissertation at own department |
| COMPUTER SCIENCE | UG | VI | Project/ Dissertation at own department |
| COMPUTER SCIENCE | PG | IV | Project/ Dissertation at own department |
| COMMUNICATIVE ENGLISH | UG | III, V, VI | Visit to Different corporate/ media house and own department |
| ENGLISH | UG | I, II, III, IV, V, VI | Project/ Dissertation at own department |
| ENVIRONMENTAL SCIENCE | UG | III, IV, V, VI, | Project/ Dissertation at own department |
| ENVIRONMENTAL SCIENCE | PG | I, II,III | Outreach Programme at BhalukaKrishnanagar, Ecological Field Study at Latpanchar, Darjeeling, Industry visit at Tata Metaliks, Kharagpur |
| GEOGRAPHY | UG | V | Field work |
| GEOGRAPHY | PG | IV | Field work |
| GEOLOGY | UG | I, IV, VI | Field work |
| GEOLOGY | PG | III, IV | Field Work, Internship at United Exploration India Pvt. Ltd. |
| HISTORY | UG | IV | Project/ Dissertation at own department |
| IFF | UG | VI | Project/ Dissertation at own department |
| JOURNALISM | UG | II,IV,VI | Project/Dissertation at own department |
| PHYSICS | UG | IV | Project/ Dissertation at own department |
| STATISTICS | UG | VI | Project/ Dissertation at own department |
| ZOOLOGY | UG | VI | Project |
| ZOOLOGY | PG | IV | Project/ Dissertation at own department |

Examination and Evaluation

The college has implemented a comprehensive framework for conducting Continuous Internal Evaluation (CIE) in both undergraduate (UG) and postgraduate (PG) courses, meticulously following the academic calendar and ensuring adherence to the stipulated guidelines. The measures taken for CIE are as follows:

- **Adherence to Academic Calendar:** All departments strictly adhere to the academic calendar to ensure the completion of the teaching-learning-evaluation process within the specified timeframe. The end semester examinations are conducted by the university as per the schedule.
- **Centralized Internal Examinations:** Prior to each end semester examination, the college conducts internal examinations centrally. These internal examinations are conducted with a systematic documentation process, including the publication of related notices on the college website.
- **Monthly Class Tests:** Departmental faculty administer monthly class tests to assess the progress of all students. The results of these class tests are reported to the college administration and are meticulously documented.
- **Mentorship Programme:** Through the analysis of class test results, advanced and slow learners are identified. These students are placed under the mentorship of departmental faculty, referred to as mentors. Mentors conduct special remedial classes for slow learners and tutorial sessions for advanced learners, focusing on their individual needs. Detailed records of mentors and mentees, along with reported issues, are maintained.
- **Student Seminars:** The college organizes student seminars to enhance students' presentation skills. These seminar presentations are well-documented and uploaded on the college website. Faculty members provide valuable feedback to students, assisting them in improving their presentation quality and skills.

Additional Assessment Methods:

- **Home Assignments:** Faculty members assign homework to encourage independent study and provide opportunities for students to seek clarification on difficulties.
- **Project Work and Seminar Presentation:** Undergraduate and postgraduate students undertake project work as part of their curriculum, gaining hands-on experience and presenting their findings through project reports and seminar presentations. These reports and presentations are evaluated and preserved for documentation.
- **Compulsory Field Work and Industrial Visits:** Fieldwork and industrial visits are integrated into various course curricula, offering students real-world exposure. Documentation of these experiences and evaluations based on documentation are maintained.
- **Educational Excursions:** Educational excursions are organized for departments without fieldwork or industrial visits. These excursions provide students with practical learning opportunities beyond their regular curriculum.

- Paper Presentation by PG Students: PG students present research papers as part of their coursework, fostering research skills and motivating them to pursue careers in research.
- Group Discussions: Faculty members regularly employ group discussions as an assessment method, uncovering hidden talents and nurturing them effectively.
- These comprehensive measures ensure that the college conducts a robust and well-documented CIE process, allowing for the continuous assessment and improvement of students' academic progress and overall learning experience.

Number of Students and Examination Success Rate (Year-wise and Subject-wise)

UG Department in 2022-23

Arts:

| Sl No | Department | Total No of Students Appeared | No. of Students whose sem is cleared | No. of students whose sem is not cleared | Success Rate (%) |
|--------------|-----------------------|-------------------------------|--------------------------------------|--|------------------|
| 1 | Bengali | 62.00 | 42.00 | 20.00 | 67.74 |
| 2 | Communicative English | 52.00 | 42.00 | 10.00 | 80.77 |
| 3 | English | 102.00 | 85.00 | 17.00 | 83.33 |
| 4 | Journalism | 68.00 | 66.00 | 2.00 | 97.06 |
| 5 | History | 46.00 | 39.00 | 7.00 | 84.78 |
| 6 | Philosophy | 25.00 | 13.00 | 11.00 | 52.00 |
| 7 | Political Sc | 48.00 | 48.00 | 0.00 | 100.00 |
| 8 | Sanskrit | 19.00 | 4.00 | 15.00 | 21.05 |
| 9 | Sociology | 43.00 | 41.00 | 2.00 | 95.35 |
| TOTAL | | 465.00 | 380.00 | 84.00 | 81.72 |

Science:

| Sl No | Department | Total No of Students Appeared | No. of Students whose sem is cleared | No. of students whose sem is not cleared | Success Rate (%) |
|--------------|-----------------------|-------------------------------|--------------------------------------|--|---------------------|
| 1 | Biochemistry | 41.00 | 30.00 | 11.00 | 73.17 |
| 2 | Botany | 31.00 | 21.00 | 10.00 | 67.74 |
| 3 | Chemistry | 41.00 | 24.00 | 17.00 | 58.54 |
| 4 | Computer Science | 40.00 | 36.00 | 4.00 | 90.00 |
| 5 | Economics | 55.00 | 47.00 | 8.00 | 85.45 |
| 6 | Electronics | 19.00 | 13.00 | 6.00 | 68.42 |
| 7 | Environmental Science | 26.00 | 21.00 | 5.00 | 80.77 |
| 8 | Geography | 64.00 | 61.00 | 3.00 | 95.31 |
| 9 | Geology | 41.00 | 40.00 | 1.00 | 97.56 |
| 10 | IFF | 51.00 | 49.00 | 2.00 | 96.08 |
| 11 | Mathematics | 45.00 | 25.00 | 20.00 | 55.56 |
| 12 | Microbiology | 39.00 | 33.00 | 6.00 | 84.62 |
| 13 | Physics | 47.00 | 18.00 | 29.00 | 38.30 |
| 14 | Psychology | 54.00 | 51.00 | 3.00 | 94.44 |
| 15 | Statistics | 53.00 | 44.00 | 9.00 | 83.02 |
| 16 | Zoology | 41.00 | 36.00 | 5.00 | 87.80 |
| TOTAL | | 1153 | 929 | 223 | 80.57 |
| Sl No | Department | Total No of Students Appeared | No. of Students whose sem is cleared | No. of students whose sem is not cleared | Success Rate (%) |
| 1 | BBA | 65 | 61 | 4 | 93.8 |
| 2 | B.Voc (SD) | 14 | 14 | 0 | 100.0 |
| 3 | B.Voc (IAF) | 18 | 17 | 1 | 94.4 |
| TOTAL | | 97 | 92 (94.85%) | 5 (5.15%) | 94.85 (Avg.) |

PG Department in 2022-23:

| Sl No | Department | Total No of Students Appeared | No. of Students whose Sem is cleared | No. of students whose Sem is not cleared | Success Rate (%) |
|-------|-----------------------|-------------------------------|--------------------------------------|--|------------------|
| 1 | Applied Geology | 11 | 11 | 0 | 100 |
| 2 | Bengali | 21 | 21 | 0 | 100 |
| 3 | Computer Science | 17 | 16 | 0 | 94 |
| 4 | Environmental Science | 20 | 20 | 0 | 100 |
| 5 | Geography | 27 | 27 | 0 | 100 |
| 6 | Zoology | 26 | 26 | 0 | 100 |

Students' Progression from UG to PG and PG to Job/Higher Studies/ Research

| Students' progression | No. of Students passed | No. of Students progression to PG | % |
|-----------------------|------------------------|-----------------------------------|-------|
| UG | 1508 | 343 | 22.74 |
| PG | 115 | 31 | 26.95 |

PG students' progression

| Department | Job | Higher Study/Research |
|-----------------------|-----|-----------------------|
| Applied Geology | 10 | |
| Bengali | 03 | - |
| Computer Science | 07 | - |
| Environmental Science | 02 | 08 |
| Geography | 05 | 05 |
| Zoology | 01 | 10 |

Functioning of Departmental Laboratories and ICT Facility

Asutosh College is renowned for its excellent laboratory facilities that contribute significantly to its reputation as a premier institution for science and research education. The college places great emphasis on creating a conducive environment for hands-on learning and practical experimentation across various scientific disciplines.

State-of-the-Art Infrastructure: Asutosh College boasts modern and well-equipped laboratories that cater to a wide range of science subjects, including physics, chemistry, biology, biotechnology, computer science, and more. The college continually invests in upgrading its infrastructure to keep pace with advancements in technology and research.

Safety Standards: Safety is paramount in all laboratories, and Asutosh College ensures strict adherence to safety protocols. The laboratories are equipped with safety measures like first-aid kits, and safety showers to ensure the well-being of students and faculty.

High-Quality Equipment: The college provides access to high-quality scientific equipment and instruments. These instruments are not only for routine experiments but also for advanced research projects, enabling students to gain valuable practical experience.

Skilled Faculty and Lab Assistants: The college employs experienced faculty members who guide students through experiments, fostering a culture of inquiry-based learning. Lab assistants are also well-trained to assist students in conducting experiments effectively.

Clean and Organized Workspaces: The laboratories are maintained meticulously, ensuring cleanliness and organization. This creates a conducive atmosphere for learning and experimentation.

Integration of Technology: Many of the laboratories incorporate technology into their setups. For example, computer science and biotechnology labs are equipped with the latest software and hardware, enabling students to engage in cutting-edge research and programming.

Research Opportunities: Asutosh College encourages students to engage in research projects. The college's laboratories are often the hub of innovative research initiatives, enabling students to contribute to advancements in their respective fields.

Interdisciplinary Labs: In addition to subject-specific labs, the college offers interdisciplinary labs that promote collaboration across different scientific disciplines. These labs encourage students to explore the connections between various fields of science.

Access to Central Research Facilities: Asutosh College provides access to central research facilities, such as the BOOST lab for planetary geology, allowing students to engage in specialized research projects beyond the scope of regular coursework.

Continuous Improvement: The college places a strong emphasis on the continuous improvement of laboratory facilities. Feedback from students and faculty is actively sought and used to make enhancements, ensuring that the labs remain at the forefront of scientific education.

List of Departmental Instruments

| Department | Instrument and supporting accessories |
|------------------------------|--|
| Applied Geology | Monocular Polarising Microscope, Binocular Ore Microscope, Digital Visualiser, Trinocular Microscope, Stereoscope, Monocular Polarising Microscope, binocular Stereozoom Microscope, Rock Section Polisher, Gyrotory Sieve Shaker, Rock Cutter, Hot Air Over, Muffle Furnace, Digital Precision Balance, Monocular Ore Microscope, Magnetic Susceptibility Meter, Rock Drill, Earth Resistivity Meter, Shunto Compass, Brunton Compass, Shake Table, Clinometer, Camera, Binocular, Hand Held GPS Receiver, Hammer. |
| Zoology | Refrigerator, Compound microscope, Simple microscope, Microcentrifuge, Incubator, Hot plate, Binocular microscope, Aquarium, Refrigerator, Microscope, sphygmomanometer, Homogenizer, Water bath, Colorimeter, Weight machine, Digital balance, Haemoglobinometer, Haemocytometer, Magnetic stirrer, Microscope, Vortex/cyclomixer, Microscope, Trinocular microscope, Microscope, Cold centrifuge, Micropipette, Microscope, Trinocular microscope, Microscope, Binocular microscope, Micro microscope, Camera attachment for microscope, Power pack for gel electrophoresis, Gel apparatus, Digital balance, Laminar air flow, Microtome, Water purifier, Microscope with camera attachment, Voltage stabilizer, Double beam spectrophotometer, Gel documentation unit, Microscope with camera attachment, BOD incubator, Voltage stabilizer, 20 degree centigrade |
| Environmental Science | Autoclave, Balance, Binocular, Cold centrifuge, Conductivity Meter, Camera, Deep Freezer Chest type, Dessicator BOD Incubator, Hot air oven, Hot Plate, Heater Incubator, Kjeldal Distillation Apparatus, Lux Meter, Lutron, Quartz Cuvettes, 1 Pair, Centrifuge capacity, 6 holes, Sound Level Meter, Vortex (Remi), Flame Photometer, Barometer, compound Microscope, Visible, Spectrophotometer, Wet & Dry Thermometer Dimple, Rain gauge, Simple Microscope, Refrigerator, Optical Microscope (Camera Attached), Electrical Water Bath cum Shaker, Rotary Evaporator, UV Visible spectrophotometer, High volume sampler, Laminar Air Flow, pH meter |
| Geography | Theodolite with stand, Dumpy level, Staff, Prismatic compass, Ranging rod, Chain, Optical square, Plane table with stand, Trough |

compass, Spirit level, Slide rule, Box sextant, Fortin's barometer, Aneroid, Dry wet bulb thermometer, Max thermometer Ratherford, Minimum thermometer Ratherford, Max-min thermometer Ratherford, Centigrade thermometer, Fahrenheit thermometer, Rain gauge, Staintion screen, Areno meter, Plantograph, Planimeter, Parallel brans ruler, Rotameter, Bean compass, Railway curves, Quick setting level with stand, French curves, Plane table with telescopic alidade, Abney level, Clinometer compass, Measuring tape, Magnifying glass, Calculator, Ac adaptor, 35 mm camera, Photographic document, Rolled paper cutter, Osow's Compass, Parallel scale, Colour pot, Colour box, Engineering box, Meter scale, Iron pointer, Hammer, Meter scale, Wooden scale of different size (fps unit), Auto projector 35 mm, Six max-min thermometer, Globe, Plumbub, Magnet, 1 wooden box, Stove stand, Iron stand, Simple welron flash t-p-404, Lensetic compass, Steadler pen, Flexible curve, Slide projector screen 132x175 cm, Water current meter, Sight vane, U- fork, Mirror stereoscope small Stopwatch, Roll polimeter film, New mirror stereoscope (big, college fund + parallel box), Over-head projector, Overhead pen set, Overhead bag, Overhead transparent sheet, Computer , Scanner, Printer, Amplifier speaker, Pocket stereoscope, Auto level with telescope stand, Satellite imagery, Rocks, Minerals, Hp 2600 m colour laser printer, Sd cardXpresso 150 charger, Pocket streoscope with folding leg, Mirror stereoscope with bino curve, Hand hold gps model, 21 st century gisedu 9.0, Clinometer optica board with case, Abney level with case, Altimeter , Gps, Digital altimeter, 2 cop wet and dry bulb thermometer, Tntmips basic, Trimble total station, Systronics digital conductivity - tds meter with cells, Systronics/ uc based conductivity tds meter with cells, Systronics dissolved oxygen meter, Systronicsdigital pH meter, Systronics /uc based pH system with electrode and temp. Probe, Systronics microcontroller based turbidity meter, Digital thermometer 50 degree, mini weather station digital wmr-108, railway curves' set, Mini weather station digital, Railway curves 100 piece set, Sieve shaking machine electronic gyosyn test sieve shaken suitable for 7 nos of 200 mm/8" dia, Test sieve geosyn stainless steel body
Hot air oven 24"x 24"x 24" digital inner and outer body made of ss (304), Automatic weather station, Computer for automatic weather station, Vernier calliper, Clinometer compass, Minerological specimen, Auguar, Refractometer, Ecoscan tds6+ meter (dst grant),

| | |
|--------------------------------------|---|
| | do6+dissolved oxygen meter, 100 photometer kit (dst grant), ecoscan salt6+ salinity meter, con 150 meter kit lutron sound level meter, flow tracker ii 3d. |
| Chemistry | Systronics Digital colorimeter 112, Systronics conductivity Meter 304, Systronics pH meter 335, Systronics micro pH meter 361, Elco LI 120 pH meter, Equiptronics-Potentiometer-EQ-601, Equiptronics-Potentiometer-E Q-602, Elco Potentiometer 118E, Digital polarimeter-EQ801, Manual polarimeter, Manual polarimeter, Magnetic Hot plate, Magnetic Stirrer, Microwave, Sodium vapour lamp, UV-Vis Spectrophotometer -117, UV-Vis Spectrophotometer-2202, Spectrophotometer 166, Precision Voltage stabilizer, REFRIGERATOR , Laptop, INTEX UPS-Protector 725, HP AC0065, LG Zebronics, LG, HP LASER Jet P1007, HP DESK JET 2131, LaserJet CP1025 colour, HP-Printer, Digital Balance, Melting point (no company) , Water bath, OVEN, Rotavap Pump, Laptop-HP-Radio Model RTL8822CE-536C3PA#ACJ, Laptop-HP-Radio Model RTL8822CE-536C3PA#ACJLenovo |
| Computer Science | Lab1: COL-1 TO COL-19, Lab2: COL-20 TO COL-32, Cent. Lab: COL-33 to COL-57, Hardware Lab (Digital Electronics): Digital Power Supply COL-58 to COL-67), Hardware Lab (Analog Electronics): OPAMP Power Supply COL-68 to COL-73, Hardware Lab (Analog Electronics): Mili Ammeter COL- 74 to COL-78 , Micro Ammeter COL-79, Hardware Lab(Microprocessor 8085 kit): COL-80 to COL-89, Hardware Lab (8085 kit Power Supply): COL-90 to COL-100 |
| Industrial Fish and Fisheries | SP-1110-Sipcon Rotary Micrtome CERMA- Japan type Autoclave (vertical) electrically operated A/C-D/C, Hot Air oven- 15"x15"x18", inner aluminium thermostatic control 3 head switch, Incubator (Bacteriological) thermostatic variable, REMI make Centrifuge (4x15ml tubes), Model 854/4, Sechidish Iron Racker, WENSER Digital Weighing Balance. Model no. 200: Capacity 200gm, Accuracy 0.00gm, Conductivity Meter Model no- 304 with cell and digital (Make Systronics) Colorimeter (model no- 112,8 Filters digital Make systronics), Centrifuge digital Model- R8C, RPM 5000-6000 with head 16x15 ml Make Remi, Hot plate size- 12x10 with powder coating energy control 2000 watt. Vision –Monocular Compound Microscope, Model no. VL-T06"Vision Monocular Compound Microscope. Model VLT6 with magnification 100x, 1000x.HSN code- 90118000 (Quantity- 1), |

| | |
|---------------------|--|
| | &LABOMED Monocular Microscope.Model CXLV (Quantity- 1), "SYSTRONICS made Controller based Vis-Spectrophotometer (340-990nm) Model no. 166, SL No. 2761, "VIBRO make Spencer type Rotary microtome with razor, Water bath, UV Chamber Micro K-jeldahlapparatus |
| Biochemistry | Systronics Digital colorimeter 112, Systronics conductivity Meter 304, Systronics pH meter 335, Shaker Incubator, REMI normal and cold Centrifuge, Table top centrifuge, Sartorius digital Balance, Dhona Balance, Multi-temp water bath, Manual polarimeter, Magnetic Hot plate, Magnetic Stirrer, Microwave, Sodium vapour lamp, UV-Vis Spectrophotometer -117, Laminar Air flow, Agarose Gel electrophoresis Apparatus, PAGE Gel Electrophoresis apparatus, Power Pack ,Trans illuminator, Haemocytometer Box, Autoclave, Hot Air oven, Refrigerator. |
| Microbiology | Mono-ocular Compound Microscopes, Autoclave, Laminar Air Flow cabinet, Incubator,Hot Air Oven, Microwave, Digital pH meter,Distillation chamber, Digital balance, Cold centrifuge, Centrifuge, Micro centrifuge (spin win), Visible Spectrophotometer, UV-VIS Spectrophotometer, Colorimeter, Binocular microscope, Shaker water bath, Agarose Gel electrophoresis Apparatus, PAGE Gel Electrophoresis apparatus, Power Pack ,Trans illuminator ,Vortex machine, Magnetic stirrer, Hot Plate, Pressure cooker, Micrometer Box, Haemocytometer Box, 4°C Freezer,- 20°C Freezer, Laptop -Configuration: Intel core i3 2 nd generation, RAM 2GB DDR3, HDD 500GB Windows, Desktop - Intel core i3-3220 3 rd , generation, RAM 4GB DDR3, HDD 1TB, Widows, LCD projector |
| Physics | Bar Pendulum, Fly Wheel, Travelling microscope and bar setup Searle's method setup, Moment of Inertia setup, Sextant, Carrey Foster's Bridge, Potentiometer, Magnetometer, Mutual inductance coil having primary and secondary coils, galvanometer, standard, stable DC power supply, Function generator, Function generator, Melde's setup, Newton's ring setup, Wedge shaped glass plate interference setup, Spectrometer, Helium/ Mercury Light source, prism, Spectrometer, Helium/ Mercury Light source, Grating , Fresnel's Biprism setup, Optical Lever, Potentiometer, Lees Apparatus, Platinum Resistance Thermometer, CRT, Optical Spectrometer, Sodium Source and power supply, Prism, Optical Spectrometer, Sodium Source and Helium Source and Respective |

| | |
|---------------|--|
| | Power Supplies, Grating, GPS Receiver, Sonometer set up, Rigidity modulus set up, Jolly's apparatus, Optical Bench |
| Botany | Autoclave, Laminar air flow, pH meter, Centrifuge, Microscope, Weighing balance, Microphone, Incubator, Hot-air oven, Refrigerator, Overhead projector, Hotplate, Heater, Colorimeter, Water-purifier. |

ICT Facilities

Asutosh College prides itself on its robust Information and Communication Technology (ICT) facilities, which play a pivotal role in enhancing the overall learning experience and academic excellence for its students.

High-Speed Internet Connectivity: The college provides high-speed internet connectivity across its campus, ensuring that students and faculty have access to a reliable and fast internet connection. This facilitates online research, access to educational resources, and seamless communication.

Computer Labs: Asutosh College boasts well-equipped computer labs with the latest hardware and software. These labs are tailored to meet the specific requirements of various departments, including computer science, commerce, and others. Students have the opportunity to work on state-of-the-art machines and gain practical exposure to a wide range of software applications.

Learning Management System (LMS): The college has implemented a robust Learning Management System (LMS) that serves as a digital platform for course materials, assignments, communication between students and faculty, and online assessments. It enhances the effectiveness of teaching and learning processes.

Digital Libraries: In addition to traditional libraries, Asutosh College offers digital libraries, where students can access a vast collection of e-books, journals, research papers, and academic resources online. These resources are invaluable for research and self-study.

E-Learning Platforms: The college utilizes e-learning platforms and video conferencing tools to facilitate online lectures, webinars, and virtual classrooms. This has proven particularly useful during unforeseen circumstances like the COVID-19 pandemic, ensuring uninterrupted learning.

Wi-Fi-enabled Campus: The entire college campus is Wi-Fi enabled, allowing students to connect their devices to the internet seamlessly. This enables them to work on assignments, conduct research, and access online educational content from various locations within the campus.

Online Examination System: Asutosh College has implemented an online examination system, which allows students to take exams electronically. This modern approach to assessment enhances efficiency and reduces paperwork.

ICT Training and Workshops: The college conducts ICT training sessions and workshops to familiarize students with the latest software, tools, and technologies. These sessions empower students with digital skills that are highly relevant in today's job market.

24/7 Tech Support: The college provides round-the-clock technical support to address any issues or challenges students may encounter with ICT resources. The IT cell is dedicated to ensure that students can access assistance whenever needed.

Collaboration Tools: The college utilizes collaboration tools and software that enable students and faculty to work together on projects, share documents, and communicate effectively, fostering a collaborative learning environment.

Asutosh College's commitment to providing top-notch ICT facilities underscores its dedication to modern education and preparing students for a technology-driven world. These facilities not only support academic pursuits but also equip students with essential digital skills and competencies, making them well-prepared for future challenges and opportunities in their respective fields.

Number of Computers/ Laptops and ICT related facilities

| Sl. No | Department | No. of Computers/ Laptops | No. of Printers | No. of Projectors |
|---------------|--|----------------------------------|------------------------|--------------------------|
| 1 | English | 2 | 1 | 1 |
| 2 | History | 2 | 2 | 1 |
| 3 | Psychology | 3 | 3 | 1 |
| 4 | Zoology | 4 | 3 | 4 |
| 5 | Department of B.Voc Studies | 25 | 2 | 3 |
| 6 | Botany | 2 | 1 | 1 |
| 7 | Geology | 13 | 1 | 3 |
| 8 | Communicative English | 21 | 2 | 1 |
| 9 | Dept. of industrial fish and fisheries | 3 | 1 | 2 |
| 10 | BBA | 2 | 2 | 2 |
| 11 | Computer science | 50 | 1 | 6 |

| | | | | |
|--------------|-------------------------------------|------------|-----------|-----------|
| 12 | Electronics | 12 | 4 | 1 |
| 13 | Philosophy | 2 | 5 | 1 |
| 14 | Political science | 2 | 1 | 1 |
| 15 | Mathematics | 17 | 1 | 0 |
| 16 | Department of Environmental Science | 6 | 2 | 2 |
| 17 | Physics | 10 | 2 | 0 |
| 18 | Bengali | 3 | 1 | 1 |
| 19 | Biochemistry | 3 | 1 | 1 |
| 20 | Chemistry | 6 | 2 | 2 |
| 21 | Microbiology | 2 | 4 | 1 |
| 22 | Statistics | 34 | 3 | 1 |
| 23 | Geography | 37 | 1 | 3 |
| 24 | Sociology | 2 | 2 | 1 |
| 25 | Economics | 3 | 0 | 1 |
| 26 | Sanskrit | 1 | 1 | 1 |
| 27 | Journalism and mass communication | 24 | 1 | 2 |
| Total | | 285 | 50 | 44 |

Central Research Facilities

BOOST Laboratory

In 2014, the Government of West Bengal's Department of Biotechnology initiated an academic programme aimed at enhancing the infrastructure of undergraduate (UG) and postgraduate (PG) colleges in the state. This initiative was a crucial part of their efforts to promote the field of biotechnology. The programme's primary objective was to bolster the availability of well-trained professionals who could collectively serve as a national knowledge repository in both the biotechnology and science & technology sectors.

To accomplish this, the Department decided to allocate funding to state-funded/aided colleges (both UG and PG) and universities that offered courses in biological sciences with a discernible biotechnology component. They invited proposals for support under a scheme named "Biotechnology-based Opportunities Offered to Science & Technology Departments," or BOOST.

Several departments, including Botany, Microbiology, Biochemistry, Environmental Sciences, and Zoology, all of which included biotechnology-related lab practical sessions in their curricula, came together to form a Project Implementation Committee. This committee was responsible for

conceiving and presenting a project proposal to the West Bengal Department of Biotechnology (WB-DBT) for the execution of the BOOST programme at Asutosh College.

Subsequently, the BOOST project received approval with a grant of Rs 45 lakhs, divided into Rs 35 lakhs for instruments and Rs 10 lakhs for consumables. Furthermore, an official memorandum of understanding (MOU) was established with the West Bengal Department of Biotechnology to formalize the implementation of the programme. This initiative was geared towards enhancing the educational and research infrastructure in the field of biotechnology at Asutosh College, ultimately contributing to the development of a skilled workforce in the biotechnology sector in West Bengal.

Instruments in BOOST Laboratory

| Sl.no. | Instrument | Supplier | Model/ make | Units |
|--------|--|--------------------------------------|-------------------------|-------|
| 1 | Refrigerated centrifuge | Labchem and labortenik | Hermle:2326k | 1 |
| 2 | Table top centrifuge (refrigerated) | Labchem and labortenik | Hermle:z216 m k. | 1 |
| 3 | Laminar air flow hood | Instrumentation India | Microflow | 1 |
| 4 | Spectrophotometer | Indian Instruments Mfg Co | Labindia 3000+ | 1 |
| 5 | Water purification unit | Indo Scientific and SurgicalsPvt.Ltd | Millipore | 1 |
| 6 | Thermocycler | Patel Chem De Drugs | Applied biosystem | 1 |
| 7 | Uv transilluminator | Medilab and co. | Vilberloumart | 1 |
| 8 | Incubator shaker | Medilab and co. | Eppendorf | 1 |
| 9 | Protein gel transfer apparatus -2 gels+ power pack | - | | |
| 10 | Pipetteman | Mirific chemicals | Riviera | 8 |
| 11 | Pipette aids | Mirific chemicals | Riviera | 2 |
| 12 | Dna gel apparatus | Indian instruments MFGCO | | 2 |
| 13 | Power pack | Wipro ge healthcare pvt.ltd | | 1 |
| 14 | Magnetic stirrer | Digitech system | Tarsons | 2 |
| 15 | Ph meter | Mirific chemicals | Cyberscanph tutor meter | 1 |
| 16 | Vortex | Mirific chemicals | Remi | 2 |
| 17 | Semi microbalance | Mirific chemicals | Wenzer | 1 |
| 18 | Microwave | Local company | LG | 1 |
| 19 | Table top gel rocker | Digitech system | Tarsons | 1 |

| | | | | |
|----|-----------------------|--------------------------------------|----------------|---|
| 20 | Water bath | Instrumentation India | | 1 |
| 21 | Heating plate | - | | |
| 22 | Refrigerator 350 lits | - | | |
| 23 | -20° c freezer | Indo scientific and surgicalspvt.ltd | Celfrost | 1 |
| 24 | Autoclave | Instrumentation India | | 2 |
| 25 | Microscope | Instrumentation India | Dewinter excel | 1 |

The Planetary Geology Laboratory

The Planetary Geology Laboratory is exclusively dedicated to the scientific exploration of the geological features present on planets and celestial bodies within our Solar System. This unique laboratory, quite possibly the sole establishment of its kind within any educational institution in Eastern India, embarked on its journey in 2013. Its inception was made possible through a research project grant obtained from the Space Applications Centre, ISRO, located in Ahmedabad. The primary focus of this laboratory's research efforts has been to investigate various aspects of the geology of Mars.

Since its establishment, the laboratory has successfully undertaken and completed four major research projects. These projects have been primarily centered around conducting geological investigations on Mars and the Moon. The research is heavily reliant on data acquired from Indian planetary missions such as the Mars Orbiter Mission (MOM) and Chandrayaan-2, which have received sanction and support from ISRO.

At present, the laboratory is well-equipped with two dedicated workstations, and it has recently acquired two additional high-capacity computing systems. These resources are essential for the analysis and interpretation of the vast amount of planetary data collected during these missions, allowing researchers to delve deeper into the geological mysteries of Mars and the Moon.

The research conducted in the laboratory has led to the publication of numerous articles in both reputable international and national journals. Additionally, several conference abstracts have been presented to disseminate the findings to a wider audience.

Currently, the laboratory is home to three dedicated Ph.D. scholars who are actively engaged in their research pursuits. Furthermore, the laboratory has supervised the completion of six master's theses, all of which have contributed to our understanding of Mars and lunar geology.

Asutosh College holds great optimism that the accomplishments and advancements achieved through this laboratory will serve as a catalyst for promoting planetary geology research in this region of the country.

In conclusion, Asutosh College in Kolkata stands out for its exceptional laboratory setup, providing students with the tools, resources, and guidance necessary to excel in their scientific pursuits. The college's commitment to maintaining high standards and fostering a culture of research and innovation makes it a top choice for students pursuing science and research-based education.

Research Profiles of Faculty Members

Asutosh College recognizes the vital role that research plays in advancing knowledge and fostering academic growth. The college is committed to providing ample research opportunities for its faculty members, enabling them to engage in meaningful research ventures and contribute to their respective fields.

Research-Friendly Environment: Asutosh College fosters a research-friendly environment that encourages faculty members to explore new ideas, conduct investigations, and develop innovative solutions. The college's commitment to academic excellence creates a conducive atmosphere for research pursuits.

Interdisciplinary Collaboration: Faculty members are encouraged to collaborate across departments and disciplines. Interdisciplinary research projects are highly valued, allowing educators to gain diverse perspectives and address complex research questions.

Financial Support: The college offers financial support for research initiatives through grants and funding opportunities. Faculty members can apply for research grants to support their projects, attend conferences, and publish their findings.

Publication and Dissemination: Asutosh College encourages faculty members to publish their research in reputed journals, present their work at national and international conferences, and participate in academic seminars and workshops. The college also publishes its own e journals and books to promote the dissemination of knowledge and thus contribute to the academic community.

Collaboration with Students: Faculty members have the opportunity to mentor and collaborate with undergraduate and postgraduate students on research projects. This hands-on experience not only benefits students but also enhances faculty research.

Professional Development: The college supports faculty members' professional development by sponsoring their attendance at conferences, workshops, and training sessions. This keeps educators updated on the latest research methodologies and trends in their respective fields.

Research Ethics and Compliance: Asutosh College emphasizes research ethics and compliance with ethical standards. Faculty members are guided on responsible research practices, ensuring the integrity of their work.

Institutional Support: The college administration actively supports faculty research initiatives and provides administrative assistance for research-related tasks, including grant applications, ethical approvals, and project management.

Networking Opportunities: Faculty members have the chance to network with peers, both within and outside the college, fostering collaborations and partnerships.

Innovation and Entrepreneurship: Asutosh College encourages faculty members to explore avenues for innovation and entrepreneurship through research. This includes technology transfer and commercialization opportunities for innovative research outcomes.

The college has a Research and Development cell that exclusively caters to the research requirements of the faculty members and encourages them to build a research-oriented environment in the college. The cell realises the significance of research in academia and offers

opportunities empowering educators to contribute to the body of knowledge in their respective fields, stay updated with the latest developments, and inspire the next generation of researchers through their scholarly pursuits.

Number of teachers recognized as research guides:

| Name of Faculty | Year of Recognition as Research Guide | Name of the scholar | Year of registration of the scholar | Title of the thesis for scholar |
|------------------------|--|----------------------------|--|---|
| Arpita Mandal | 2021 | Sumita Sahoo | 2021 | Bio-Processing of Poultry waste into an effective fertilizer |
| Utpal Kumar Barman | 2021 | Arup Kar | 2021 | Effect of salinity fluctuation on growth performance of Scylla Serrata respect of different protein level |
| Abhik Kundu | 2021 | Supratik Basu | 2022 | Fluvial-Geomorphic features and deformation signatures in the southern Margaritifer Terra, Mars: Their role on shaping the present-day surface of the region. |
| Abhik Kundu | 2021 | Joyita Thapa | 2022 | Proposition on Geological evolution of the Mare fecunditatis, the Moon through Morphometrics of the deformation signatures. |
| Sayani Mukhopadhyay | 2022 | Anirban Kundu | Enrolled, not yet registered | Topic to be finalised after registration |
| Arnab Kumar Patra | 2019 | Manika Mandal | 2019 | "Srihrsakartarutakanam..... .Gurutvcaavimarsah" |
| Arnab Kumar Patra | 2019 | SuwenduK irtunia | 2019 | "Birendrakumarabhatta.....Adhyayanam" |

Number of Publications by teachers and scholars (Department wise)

| Department | No of Journal Publications | No. of Book/BookChapter |
|-----------------------------------|-----------------------------------|--------------------------------|
| BBA | 1 | 1 |
| Bengali | 2 | 7 |
| Biochemistry | 4 | 3 |
| Botany | 2 | 2 |
| Chemistry | 2 | 4 |
| Communicative English | 2 | 2 |
| Computer science | 13 | 5 |
| Department of B.Voc Studies | 1 | 2 |
| Electronics | 1 | 3 |
| English | 1 | 4 |
| Environmental Science | 4 | 5 |
| Economics | 1 | 1 |
| Geography | 1 | 6 |
| Geology | 4 | 1 |
| History | 1 | 9 |
| Industrial Fish and fishery | 2 | 3 |
| Journalism and mass communication | 3 | 3 |
| Mathematics | 8 | 2 |
| Microbiology | 5 | 1 |
| Philosophy | 2 | 1 |
| Physics | 4 | 2 |
| Political science | 0 | 3 |
| Psychology | 0 | 2 |
| Sanskrit | 6 | 3 |
| Sociology | 1 | 1 |
| Statistics | 2 | 2 |
| Zoology | 2 | 2 |
| Total | 69 | 76 |

Number of research projects (Department-wise)

List of funds by Central / State Government UGC/CSIR/DBT/ICMR/TEQIP/World Bank/CPE of UGC etc.,

| Department | Name of Faculty | Funding Agency | Year of award with duration | Amount |
|-----------------------|-------------------------|--|-----------------------------|-----------|
| Geology | Dr. Abhik Kundu | RESPOND, ISRO | 2019 | 483520.00 |
| Geology | Dr. Abhik Kundu | Space Applications Centre, ISRO | 2019 | 697761.00 |
| Microbiology | Dr. Arpita Mondal | DST (SERB) | 2020 | 400000.00 |
| Geography | Dr. Sayani Mukhopadhyay | WB-DST | 2020 | 282000.00 |
| IFF | Ram Krishna Das | West Bengal Biodiversity Board | 2021 | 35000.00 |
| Geography | Dr. Sayani Mukhopadhyay | Science and Technology And biotechnology Department, West Bengal | 2021 | 272400.00 |
| Geology | Dr. Abhik Kundu | ISRO | 2021 | 563708.00 |
| Chemistry | Dr. Keya Ghosh | DST BT, Govt. of WB | 2021 | 220000.00 |
| Environmental Science | Arijit Chatterjee | Pardicolor | 2022 | 41555.00 |
| Zoology | Sriparna Datta Ray | ZSK-India National Internship Programme, 2022 | 2022 | 41000.00 |

Library Facilities

Asutosh College places a strong emphasis on the provision of comprehensive library facilities to support the academic and research needs of its students and faculty. The college boasts both departmental and central libraries, each contributing significantly to the educational environment.

Central Library:

- **Vast Collection:** The central library at Asutosh College houses an extensive and diverse collection of books, journals, research papers, periodicals, and reference materials. Students and faculty have access to a wealth of academic resources that cover a wide range of subjects and disciplines.
- **Digital Resources:** In addition to physical books and journals, the central library provides access to a rich array of digital resources, including e-books, e-journals, and databases. These digital resources greatly expand the breadth of research materials available to the college community.
- **Study Spaces:** The library offers a variety of study spaces, including quiet reading areas, collaborative workspaces, and designated sections for group discussions. These spaces cater to different learning preferences and study needs.
- **Research Support:** The library staff is well-trained and readily available to assist students and faculty with research inquiries, resource recommendations, and information retrieval. They play a crucial role in facilitating academic excellence.
- **Interlibrary Loan Services:** Asutosh College's central library participates in interlibrary loan programmes, allowing students and faculty to access materials from other libraries in the region, expanding the scope of available resources.

Departmental Libraries

- **Subject-specific Collections:** Each department within the college maintains its own departmental library. These specialized libraries are tailored to the specific academic needs of their respective departments. For example, the computer science department's library would focus on computer science-related materials.
- **Proximity to Labs and Classrooms:** Departmental libraries are strategically located near departmental laboratories and classrooms. This proximity facilitates easy access to reference materials and resources directly relevant to students' coursework.
- **Specialized Resources:** Departmental libraries often house unique and specialized resources, such as research papers, project reports, and subject-specific journals, which are invaluable for in-depth study and research.

- Faculty Collaboration: Departmental libraries encourage collaboration between faculty members and students. Faculty often use these spaces for mentoring and discussions related to coursework and research projects.
- Extended Opening Hours: Departmental libraries often have extended opening hours, accommodating students who wish to study or engage in research beyond regular class hours.
- The library facilities at Asutosh College, encompassing both central and departmental libraries, play a pivotal role in supporting academic excellence and research endeavours. These libraries provide students and faculty with a rich array of resources, study spaces, and specialized materials that contribute significantly to the overall learning experience. The commitment to maintaining and enhancing these facilities underscores the college's dedication to fostering a culture of scholarship and intellectual growth.

Department-wise Libraries, Reading Room and Books

| Sl. No. | Location | Department | Number of books | Total |
|---------|-----------------------|---------------|-----------------|-------|
| 1. | Main Library | B.VOC | 0 | 212 |
| 2. | Reading Library | | 0 | |
| 3. | Seminar Library | | 212 | |
| 4. | Centenary Library | | 0 | |
| 5. | Second Campus | | 0 | |
| 6. | Main Library | Bengali | 1946 | 3284 |
| 7. | Reading Library | | 231 | |
| 8. | Seminar Library | | 1107 | |
| 9. | Centenary Library | | 0 | |
| 10. | Second Campus Library | | 0 | |
| 11. | Main Library | BBA | 1 | 1018 |
| 12. | Reading Library | | 9 | |
| 13. | Seminar Library | | 1008 | |
| 14. | Centenary Library | | 0 | |
| 15. | Second Campus Library | | 0 | |
| 16. | Main Library | Bio-Chemistry | 57 | 480 |
| 17. | Reading Library | | 14 | |
| 18. | Seminar Library | | 409 | |
| 19. | Centenary Library | | 0 | |
| 20. | Second Campus Library | | 0 | |

| | | | | |
|-----|-----------------------|-----------------------|------|------|
| 21. | Main Library | Botany | 329 | 960 |
| 22. | Reading Library | | 72 | |
| 23. | Seminar Library | | 559 | |
| 24. | Centenary Library | | 0 | |
| 25. | Second Campus Library | | 0 | |
| 26. | Main Library | Chemistry | 726 | 2073 |
| 27. | Reading Library | | 211 | |
| 28. | Seminar Library | | 1136 | |
| 29. | Centenary Library | | 0 | |
| 30. | Second Campus Library | | 0 | |
| 31. | Main Library | Communicative English | 16 | 422 |
| 32. | Reading Library | | 4 | |
| 33. | Seminar Library | | 402 | |
| 34. | Centenary Library | | 0 | |
| 35. | Second Campus Library | | 0 | |
| 36. | Main Library | Community College | 0 | 193 |
| 37. | Reading Library | | 0 | |
| 38. | Seminar Library | | 193 | |
| 39. | Centenary Library | | 0 | |
| 40. | Second Campus Library | | 0 | |
| 41. | Main Library | Computer Science | 370 | 1829 |
| 42. | Reading Library | | 88 | |
| 43. | Seminar Library | | 1369 | |
| 44. | Centenary Library | | 2 | |
| 45. | Second campus Library | | 0 | |
| 46. | Main Library | Economics | 645 | 1217 |
| 47. | Reading Library | | 80 | |
| 48. | Seminar Library | | 492 | |
| 49. | Centenary Library | | 0 | |
| 50. | Second Campus Library | | 0 | |
| 51. | Main Library | Electronics | 330 | 913 |
| 52. | Reading Library | | 57 | |
| 53. | Seminar Library | | 525 | |
| 54. | Centenary Library | | 1 | |
| 55. | Second Campus Library | | 0 | |
| 56. | Main Library | English | 1231 | 2430 |
| 57. | Reading Library | | 78 | |
| 58. | Seminar Library | | 1121 | |

| | | | | |
|-----|-----------------------|--|------|------|
| 59. | Centenary Library | | 0 | |
| 60. | Second Campus Library | | 0 | |
| 61. | Main Library | Environmental Science | 80 | 262 |
| 62. | Reading Library | | 5 | |
| 63. | Seminar Library | | 177 | |
| 64. | Centenary Library | | 0 | |
| 65. | Second Campus Library | | 0 | |
| 66. | Main Library | Geography | 214 | 1320 |
| 67. | Reading Library | | 79 | |
| 68. | Seminar Library | | 1027 | |
| 69. | Centenary Library | | 0 | |
| 70. | Second Campus Library | | 0 | |
| 71. | Main Library | Geology | 403 | 869 |
| 72. | Reading Library | | 84 | |
| 73. | Seminar Library | | 380 | |
| 74. | Centenary Library | | 2 | |
| 75. | Second Campus Library | | 0 | |
| 76. | Main Library | History | 1039 | 1901 |
| 77. | Reading Library | | 128 | |
| 78. | Seminar Library | | 734 | |
| 79. | Centenary Library | | 0 | |
| 80. | Second Campus Library | | 0 | |
| 81. | Main Library | Hospital Waste Disposal Management | 0 | 5 |
| 82. | Reading Library | | 0 | |
| 83. | Seminar Library | | 5 | |
| 84. | Centenary Library | | 0 | |
| 85. | Second Campus Library | | 0 | |
| 86. | Main Library | Industrial Chemistry | 0 | 22 |
| 87. | Reading Library | | 0 | |
| 88. | Seminar Library | | 22 | |
| 89. | Centenary Library | | 0 | |
| 90. | Second Campus Library | | 0 | |
| 91. | Main Library | Industrial Fish and Fisheries | 49 | 312 |
| 92. | Reading Library | | 3 | |
| 93. | Seminar Library | | 260 | |
| 94. | Centenary Library | | 0 | |
| 95. | Second Campus Library | | 0 | |

| | | | | |
|------|-----------------------|---|------|------|
| 96. | Main Library | Journalism and Mass Communication | 249 | 679 |
| 97. | Reading Library | | 46 | |
| 98. | Seminar Library | | 384 | |
| 99. | Centenary Library | | 0 | |
| 100. | Second Campus Library | | 0 | |
| 101. | Main Library | Mathematics | 632 | 2017 |
| 102. | Reading Library | | 268 | |
| 103. | Seminar Library | | 1117 | |
| 104. | Centenary Library | | 0 | |
| 105. | Second Campus Library | | 0 | |
| 106. | Main Library | Microbiology | 95 | 534 |
| 107. | Reading Library | | 31 | |
| 108. | Seminar Library | | 408 | |
| 109. | Centenary Library | | 0 | |
| 110. | Second Campus Library | | 0 | |
| 111. | Main Library | Bengali PG | 5 | 932 |
| 112. | Reading Library | | 0 | |
| 113. | Seminar Library | | 883 | |
| 114. | Centenary Library | | 44 | |
| 115. | Second Campus Library | | 0 | |
| 116. | Main Library | Computer Science PG | 0 | 890 |
| 117. | Reading Library | | 0 | |
| 118. | Seminar Library | | 855 | |
| 119. | Centenary Library | | 5 | |
| 120. | Second Campus Library | | 0 | |
| 121. | Main Library | Environmental Science PG | 0 | 551 |
| 122. | Reading Library | | 0 | |
| 123. | Seminar Library | | 551 | |
| 124. | Centenary Library | | 0 | |
| 125. | Second Campus Library | | 0 | |
| 126. | Main Library | Geography PG | 0 | 562 |
| 127. | Reading Library | | 0 | |
| 128. | Seminar Library | | 552 | |
| 129. | Centenary Library | | 10 | |
| 130. | Second Campus Library | | 0 | |
| 131. | Main Library | Geology PG | 0 | 243 |
| 132. | Reading Library | | 0 | |
| 133. | Seminar Library | | 224 | |

| | | | | |
|------|-----------------------|-------------------|-----|------|
| 134. | Centenary Library | | 19 | |
| 135. | Second Campus Library | | 0 | |
| 136. | Main Library | Zoology PG | 0 | 253 |
| 137. | Reading Library | | 0 | |
| 138. | Seminar Library | | 252 | |
| 139. | Centenary Library | | 1 | |
| 140. | Second Campus Library | | 0 | |
| 141. | Main Library | Philosophy | 633 | 1421 |
| 142. | Reading Library | | 94 | |
| 143. | Seminar Library | | 694 | |
| 144. | Centenary Library | | 0 | |
| 145. | Second Campus Library | | 0 | |
| 146. | Main Library | Physics | 508 | 1699 |
| 147. | Reading Library | | 221 | |
| 148. | Seminar Library | | 970 | |
| 149. | Centenary Library | | 0 | |
| 150. | Second Campus Library | | 0 | |
| 151. | Main Library | Political Science | 513 | 1439 |
| 152. | Reading Library | | 105 | |
| 153. | Seminar Library | | 821 | |
| 154. | Centenary Library | | 0 | |
| 155. | Second Campus Library | | 0 | |
| 156. | Main Library | Psychology | 149 | 783 |
| 157. | Reading Library | | 68 | |
| 158. | Seminar Library | | 566 | |
| 159. | Centenary Library | | 0 | |
| 160. | Second Campus Library | | 0 | |
| 161. | Main Library | Sanskrit | 464 | 1000 |
| 162. | Reading Library | | 4 | |
| 163. | Seminar Library | | 532 | |
| 164. | Centenary Library | | 0 | |
| 165. | Second Campus Library | | 0 | |
| 166. | Main Library | Sociology | 409 | 959 |
| 167. | Reading Library | | 57 | |
| 168. | Seminar Library | | 493 | |
| 169. | Centenary Library | | 0 | |
| 170. | Second Campus Library | | 0 | |
| 171. | Main Library | Statistics | 221 | 1528 |

| | | | | |
|------|-----------------------|-----------------------|------|-----|
| 172. | Reading Library | | 157 | |
| 173. | Seminar Library | | 1150 | |
| 174. | Centenary Library | | 0 | |
| 175. | Second Campus Library | | 0 | |
| 176. | Main Library | Travel and Tourism | 0 | 0 |
| 177. | Reading Library | | 0 | |
| 178. | Seminar Library | | 0 | |
| 179. | Centenary Library | | 0 | |
| 180. | Second Campus Library | | 0 | |
| 181. | Main Library | Zoology | 248 | 811 |
| 182. | Reading Library | | 51 | |
| 183. | Seminar Library | | 512 | |
| 184. | Centenary Library | | 0 | |
| 185. | Second Campus Library | | 0 | |

Extension and Outreach Programmes

Extension activities and outreach programmes conducted by a college are of paramount importance for several reasons, as they serve as a bridge between the academic institution and the broader community. Extension activities and outreach programmes facilitate meaningful engagement with the local community. They enable colleges to address community needs and challenges, fostering a sense of responsibility and reciprocity.

Educational institutions also have a social responsibility to contribute positively to their surrounding communities. Extension activities fulfil this responsibility by addressing societal issues, such as healthcare, education, environmental conservation, and poverty alleviation.

Students and faculty members can apply their academic knowledge and skills in real-world settings through extension activities. This practical experience enhances learning and encourages the application of theoretical concepts to practical situations. Extension programmes provide opportunities for students to develop essential life skills such as communication, problem-solving, teamwork, leadership, and cultural sensitivity. These skills are invaluable for personal and professional growth.

Outreach programmes often involve interactions with diverse groups of people. This exposure promotes cultural exchange and understanding, fostering tolerance and appreciation for different perspectives and backgrounds.

Outreach programmes encourage a culture of lifelong learning. They provide opportunities for individuals of all ages to access education and training, regardless of their academic backgrounds. Participation in outreach programmes provides knowledge on civic engagement and becoming an active citizen.

Asutosh College conducts various extension activities and outreach programme via its committee for extension activities, Event Organising Committee, Gender Equity Cell (Women Empowerment Cell), Students' Union as well as NCC and NSS units.

Extension and outreach activity carried out by the Institution

| Name of the activity | Organising unit/ agency/ collaborating agency | Name of the scheme | Number of students who participated in such activities |
|---|---|---------------------------|---|
| Observation of World Environment Day | NSS Unit, Asutosh College | NSS | 65 |
| Observation of No Drug Day | Collaborating with NSS Unit, University of Calcutta | NSS | 40 |
| Participation of NSS Day at University of Calcutta | Collaborating with NSS Unit, University of Calcutta | NSS | 10 |
| Celebrated Birth Anniversary of Iswar Chandra Vidyasagar | Event Organising Committee, NSS Unit, Asutosh College | NSS | 70 |
| Participation of NSS volunteers in State Level workshop in National Integration Day | NSS Unit of State and NSS Unit, Asutosh College | NSS | 10 |
| Swachh Bharat Aviyon | NSS Unit, Asutosh College | NSS | 40 |
| Celebrated Birth Anniversary of Swami Vivekananda | Event Organising Committee, NSS Unit, Asutosh College | NSS | 80 |
| Celebrated Birth Anniversary of Netaji Subhas Chandra Bose | Event Organising Committee, NSS Unit, Asutosh College | NSS | 75 |
| Celebrated Birth Anniversary of B.R. Ambedkar | Event Organising Committee, NSS Unit, Asutosh College | NSS | 60 |
| Celebrated Birth Anniversary of Sardar Vallabhbhai Patel | Event Organising Committee, NSS Unit, Asutosh College | NSS | 65 |

| | | | |
|--|--|-----|-----|
| Celebrated Birth Anniversary of Sir Asutosh Mukherjee | Event Organising Committee, NSS Unit, Asutosh College | NSS | 250 |
| Celebrated Birth Anniversary of Rabindranath Tagore | Event Organising Committee, NSS Unit, Asutosh College | NSS | 70 |
| Health Awareness Programme against Dengue | Students' Union, NSS Unit, Asutosh College | NSS | 60 |
| Conducted self defence programme for students | NSS Unit, Women Empowerment Cell & IQAC, Asutosh College | NSS | 150 |
| Celebrated World Hearing Day | NSS Unit & IQAC, Asutosh College | NSS | 150 |
| Health Awareness Programme in slum areas | Students' Union, Anwasha Kolkata & CPWD& IQAC, Asutosh College | NSS | 30 |
| Teaching to poor school going children in the slum areas of Bhawanipore | NSS Unit, Asutosh College | NSS | 12 |
| Distributed drawing book, exercise book, pen, pencil etc. | Students' Union, NSS Unit, Asutosh College | NSS | 30 |
| Visit to oldage home and spending time with them | Students' Union, NSS Unit, Asutosh College | NSS | 15 |
| Distributed dry ration to <i>100 families</i> affected due to Yaas cyclone in Baunia Island. | Ex-student, Asutosh College | NSS | 5 |
| Distributed dry ration to <i>40 families</i> in and around Tollygunge area affected by Yaas cyclone. | Ex-student, Asutosh College | NSS | 5 |
| Distributed dry ration to <i>100 families</i> affected due to Yaas cyclone in Budhakhali, Kakdwip, Namkhana&Radhanagar. | Ex-student, Asutosh College | NSS | 5 |
| Distributed dry ration&Covid kit (medicines, sanitisers& masks) to <i>100 families</i> affected due to Yaas cyclone and covid second wave in Sandeshkhali. | Ex-student, Asutosh College | NSS | 5 |
| Cadet welfare society Best Cadet Competition Award | NCC unit, Asutosh College, NCC | NCC | 4 |

| | | | |
|--|---|-----|----|
| Inter Group Competition - Republic Day Camp Delhi | NCC unit, Asutosh College, NCC | NCC | 12 |
| Selection camp and Inter Group Competition - Thal Sainik Camp Delhi | NCC unit, Asutosh College, NCC | NCC | 1 |
| Participated in Advance Leadership Camp at Kharagpur | NCC unit, Asutosh College, NCC | NCC | 1 |
| Special National Integration Camp organized at Delhi | NCC unit, Asutosh College, NCC | NCC | 3 |
| Inter Battalion Sports Meet (KHEL) held at St. Xavier's College, Kolkata | NCC unit, Asutosh College, NCC | NCC | 25 |
| All India Trekking Camp Namchi, Sikkim | NCC unit, Asutosh College, NCC | NCC | 1 |
| Punit Sagar Awareness Campaign | NCC unit, Asutosh College, NCC | NCC | 10 |
| International Day of Yoga | NCC unit, Asutosh College, NCC | NCC | 21 |
| Management of Cultural event for blind people organized by Blind People Association, Kolkata | NCC unit, Asutosh College, Blind People Association | NCC | 16 |
| NCC Day celebration, Kolkata | NCC unit, Asutosh College, NCC | NCC | 13 |
| Blood Donation Camp | Students' Union, NCC unit, Asutosh College, Indian Army | NCC | 11 |
| Weekly Training Programme | NCC unit, Asutosh College | NCC | 92 |
| NCC "B" Certificate Examination | NCC unit, Asutosh College, NCC | NCC | 34 |
| NCC "C" Certificate Examination | NCC unit, Asutosh College, NCC | NCC | 23 |
| World Health Day celebration | NCC unit, Asutosh College, NCC | NCC | 14 |
| Indian Army weapon exhibition | NCC unit, Asutosh College, Indian Army | NCC | 9 |
| Certificates/Awards Distribution Ceremony | Awards Committee Asutosh College | NCC | 46 |

| | | | |
|------------------------------|---|-----|----|
| Independence Day Celebration | Event Organising Committee, NCC unit, Asutosh College | NCC | 31 |
| Republic Day Celebration | Event Organising Committee, NCC unit, Asutosh College | NCC | 53 |

Functioning of the Internal Quality Assurance Cell (IQAC)


The Internal Quality Assurance Cell (IQAC) holds immense importance in an educational institution as it serves as a central body responsible for quality assurance, continuous improvement, and the overall enhancement of the institution's educational processes and outcomes. Asutosh College IQAC is primarily responsible for ensuring and maintaining the quality of education and services provided by the institution. It has established monitor mechanisms to uphold educational standards and benchmarks. IQAC has promoted a culture of continuous improvement within the institution. It has encouraged self-assessment, feedback, and reflection, based on data driven study, helping the institution identify areas for enhancement in various aspects of its functioning. The cell has contributed to the development of the institution's strategic plans and annual quality assurance reports. It has assisted in setting clear goals, objectives, and action plans to achieve academic excellence. The cell has regularly held meetings throughout the session and upgraded teaching-learning and evaluation systems of the college. The IQAC has initiated various quality improvement programmes, including faculty development workshops, pedagogical training, and curriculum enhancement efforts. These initiatives have positively impacted teaching and learning processes. The IQAC of Asutosh College has provided the institution with clear goals and objectives and has shown a pathway of achieving it.

Opportunities/Recommendations for Improvement

The academic audit team has found few areas where improvement can be made by the institution which are:

- Enhanced training of students, faculty, non-teaching staff to work on online platforms
- Upgrading of online teaching course or free add-on course by the various departments
- Industry Collaboration for better student exposure and placement
- Enhanced Outreach activities
- Greater emphasis on interdisciplinary research and publications of faculty members
- Proper documentation for all activities conducted by the institution.
- National/ State/ departmental seminars to be organised in blended mode

Name and Signature of Academic Audit Committee Members

| Names of the committee members | Signature & Date |
|---|---|
| External Members | |
| <p>Dr. Indrila Guha Principal Basanti Devi College</p> | <p><i>Indrila Guha</i> 11/8/23</p> <p>Dr. Indrila Guha Principal Basanti Devi College Kol-29</p> |
| <p>Dr. Somnath Mukhopadhyay, Principal Dinabandhu Andrews College</p> | <p><i>Somnath Mukhopadhyay</i> 11 AUG 2023</p> <p>Principal Dinabandhu Andrews College P.O. - Garia, Kolkata - 700 084 West Bengal, India</p>  |
| <p>Dr. Sk. Rafikul Hossain Department of Bengali University of Calcutta</p> | <p><i>Sk Rafikul Hossain</i> 11/08/2023</p> <p>DR. SK. RAFIKUL HOSSAIN Associate Professor Dept. of Bengali Language & Literature University of Calcutta</p> |
| <p>Dr. Parthiba Basu Department of Zoology University of Calcutta</p> | <p><i>Parthiba Basu</i> 11.8.23</p> <p>Dr. Parthiba Basu Professor Department of Zoology University of Calcutta</p> |

| | |
|---|--|
| <p>Dr. Jayanti Das Professor Department of Education Calcutta University</p> | <p><i>Jayanti Das</i> 11/08/23 Prof (Dr) Jayanti Das Professor Department of Education University of Calcutta</p> |
| <p>Internal Members</p> | |
| <p>Dr. Manas Kabi Principal Asutosh College</p> | <p><i>Manas Kabi</i> 11/08/2023 PRINCIPAL ASUTOSH COLLEGE 92, S. P. MUKHERJEE ROAD KOLKATA-700 026</p> |
| <p>Dr. Sraboni Roy Associate Professor Department of English, Asutosh College</p> | <p><i>Srab. Roy.</i> 11/08/2023 ASSOCIATE PROFESSOR DEPT. OF ENGLISH ASUTOSH COLLEGE</p> |
| <p>Dr. Sriparna Datta Ray Co-ordinator, IQAC Asutosh College</p> | <p><i>Souparna Datta Ray</i> 11/8/23 CO ORDINATOR IQAC ASUTOSH COLLEGE 92, S. P. MUKHERJEE ROAD KOLKATA- 700 026</p> |
| | |

| | |
|---|---|
| <p>Dr. Keya Ghosh Convenor Academic Sub-Committee</p> | <p>Keya Ghosh 11-8-23 CONVENER ACADEMIC SUB-COMMITTEE ASUTOSH COLLEGE KOLKATA-700 026</p> |
| <p>Dr. Shyamalina Haldar Assistant Professor Department of Biochemistry Asutosh College</p> | <p>Shyamalina Haldar 11/8/23</p> |



**ASUTOSH
COLLEGE**
A CENTRE FOR
UG & PG STUDIES
AND RESEARCH

REPORT OF ADMINISTRATIVE AUDIT



Session
2022 - 2023



ASUTOSH COLLEGE

92, S.P. Mukherjee Road, Kokata - 26

Preface

Administrative audit is a fundamental part of any institution to evaluate the efficacy and effectiveness of the administrative procedures. The main function of the administrative audit team is to document the information pertaining to the administrative set up and duties to boost up the constant progress of best practices in administration.

Asutosh College, affiliated to the University of Calcutta, stands as a prominent landmark in the educational landscape of Kolkata. Established in 1916 by Sir Asutosh Mookerjee, a pioneer of modern education in India, it originally bore the name South Suburban College. In 2002, Asutosh College became the first college in West Bengal to undergo Assessment and Accreditation by the National Assessment and Accreditation Council (NAAC) of India, under the new scheme initiated by the UGC. Presently, it offers Undergraduate courses in twenty-eight subjects, 6 Postgraduate courses and 20 various certificate courses. The college received NAAC Accreditation Grade A in the second NAAC assessment, 2016. It boasts of a digital presence with a website developed by Infotech lab, Kolkata and maintained by Computer and IT section, Asutosh College. Asutosh College has six campus buildings, four in the vicinity of 92 S. P. Mukherjee Road, one on Kalighat Road, and one at Bhasa, South 24 Parganas. The college has emerged today also as a centre for postgraduate studies and research. To facilitate research needs, the Asutosh College Research Centre was set up in 2020, as a dedicated multidisciplinary research centre with the aim of stimulating on-campus research environment with state-of-the-art equipment in addition to online resources. The Administrative audit team for the academic year 2022-2023 was implemented by the Internal Quality Assurance Cell (IQAC) in April 2022 with nine external members and four internal members. With a view to confirming an unremitting improvement, regular evaluation of policies, strategies and functions of the various administrative departments and control over the overall administrative system are essential.

External members for administrative audit committee

Dr. Jaydeep Sarangi, Principal, New Alipore College

Dr. Somnath Mukhopadhyay, Principal, Dinabandhu Andrews College

Dr. Indrila Guha, Principal, Basanti Devi College

Dr. Sima Chakrabarti, Principal, Maharani Kasiswari College

Dr. Anita Chattopadhyay Gupta, Principal, Deshbandhu College for Girls

Internal members for administrative audit committee

Dr. Manas Kabi, Principal, Asutosh College

Dr. Sriparna Dutta Ray, IQAC Coordinator, Asutosh College

Dr. Sayani Mukhopadhyay, General Body (GB) Member, Asutosh College

Dr. Rina Kar Dutta, Teachers-Council-Secretary, Asutosh College

Dr. Shyamalina Halder, Assistant Professor, Department of Biochemistry, Asutosh College

Schedule of the Administrative Audit

| Sl No. | Date | Time |
|--------|---------------------------------------|-----------|
| 1 | 16.08.2023 | 11am -4pm |
| 2 | 17.08.2023 | 11am -4pm |
| 3 | 18.08.2023 | 11am -4pm |
| 4 | Date of report submission: 21.08.2023 | |

Scope of the administrative audit encompassed the following areas:

- Meeting minutes of different administrative bodies (Governing Body meeting, IQAC meeting, Teachers' Council meeting, Finance Committee meeting, Purchase Committee meeting etc.)
- Library and Computer facilities in the departments and data documentation for the same.
- Various employee facilities.
- Functioning of various cells and committees for students benefit.
- Activities of the Internal Quality Assurance Cells.
- Opportunities and scope of improvement in major functional areas.

Method of Administrative Audit

The initial meeting was held between Principal, IQAC-coordinator, faculties and other administrative officials to discuss facilities and activities of the College on 28th, 2023. As per the discussion, the audit team visited all the departments and had brief discussions with the faculty members and the administrative staffs. Library, laboratory, computer facilities and IT sections were visited by the audit team. Based on the acquired information, the audit team put forward their views on present scenario and suggestions for further improvements in coming years.

General Observations for administrative audit:

- The Institution is a co-education College, affiliated to University of Calcutta, Kolkata and is accredited by NAAC with a CGPA of 3.22.
- There is a progressive vision of the Management and Principal with a definite plan of action following a decentralized administrative network
- Qualified and committed faculty members with a mix of experienced and newly appointed

- The College is funded by different funding agencies like DST-FIST, DBT and RUSA 2.0
- The Institution is ISO certified (ISO 9001:2015)
- Departments function in alignment with the institutional quality policies
- UG Programmes-26; PG Programmes- 6, Research Programmes- 3
- Faculty members –183; Administrative staff- 9; Supporting Staff-136
- Total faculty members with Ph.D. – 116
- The percentage of enrolment is good
- Has a total of 5560 enrolled students.
- Has a total of 23 supportive courses
- Total Research centres- 3
- An active IQAC exists
- Preparing for the third cycle of NAAC accreditation
- Adequate facilities are provided in the library
- Support services such as canteen, hostels, and transportation are provided

Present status (2022-2023)

| | |
|--|------------------------------|
| Governing Body Constitution- | 12 (GB Constitution in 2022) |
| No. of Governing Body Meetings this year | 5 |
| No. of IQAC meetings this year | 8 |
| No. of Teachers' Council Meetings this year | 6 |
| No. of RUSA 2.0 Meetings this year | 2 |
| No. of Anti-Ragging Cell Meetings this year | 1 |
| No. of Grievance Redressal Cell Meetings this year | 3 |
| No. of Women Empowerment Cell Meetings this year | 2 |
| MoUs | 32 |
| Administrative Office: | 9 |
| Administrative Office No. of Computing Facilities | 5 |
| IT Cell No of Staff | 3 |
| IT Cell No. of Computing Facilities | 5 |
| No of Staff at Principal's Office | 9 |
| No. of Computing Facilities at Principal's Office | 5 |
| No. of Staff in library | 12 |
| Library Automation | Fully Automated |
| Number of Departmental Support Staff | 136 |
| Number of Life Science Laboratories | 6 |
| Number of Physical Science Laboratories | 6 |
| Number of Earth Science laboratories: | 2 |

| | |
|---|-----------|
| Number of Wash Rooms: For Boys' | 10 |
| Number of Wash Rooms: For Girls' | 10 |
| Number of Wash Rooms: For Male Staff | 5 |
| Number of Wash Rooms: For Lady staff | 5 |
| Medical Room facilities | Yes |
| Doctor on Call | Yes |
| Nursing Staff | Yes |
| Employees' Health Insurance Facility | Yes |
| Employees' P.F. facility | Yes |
| Sports Facilities | Excellent |
| Sports Tent | Yes |
| Management Information System | Yes |
| CCTV Surveillance | Yes |
| Hostel for Boys Capacity | 42 |
| Hostel for Girls Capacity | 42 |
| Ramp facilities, Elevators, specialised wash room facilities for specially-abled students | Yes |
| All time water supply and storage | Yes |
| AMC of Computers and Instruments | Yes |

Specific area-wise suggestions/recommendations by audit-team

College Office

- Periodic surveillance audits may be performed for keeping records updated, preferably through online system.
- Spatial rearrangement and sectional informative boards may be provided
- A full-fledged digital enquiry facility is suggested
- All software that are in use should be licensed
- An electronic information display board may be installed at the entrance of the campus

Programmes, Curriculum, and Support Courses

- More programmes, especially at the Postgraduate level may be started in accordance with NEP and stakeholder requirements
- Relevance of cross cutting issues should be categorised separately with specific mention

Teacher quality: Teaching Learning and Evaluation

- Systematic planned training should be given to all teachers in all areas of academic and extra-academic requirements.

- Professional skill development of the teaching and non-teaching staff has to be insisted and monitored so that a higher level of education can be ensured in the campus.
- The digital learning content developed by teachers has to be made easily accessible to students.
- All teachers should be encouraged to complete Ph.D. within a stipulated time
- National and International exposure of teachers to be encouraged
- Blended system of teaching integrating technology has to be encouraged in accordance with the present-day requirements.

Research and Extension

- A research culture should prevail in the campus
- Students should be encouraged to publish
- College policy may be effectively implemented on Research projects and Publications by the Faculty members
- Increased number of extension activities to be undertaken by all departments.
- Sensitization programmes involving students in identified communities to be systematically organised.

Administrative Staff

- Training programmes may be extended to segments of the administrative staff, such as Office, Security, and other support staff
- ISO quality standards have to be made known to the administrative staff
- More Soft Skills training to be provided to enhance staff-student, staff-faculty relationships yearly.

Governance

- A more inclusive system of management may be implemented
- Timely implementation of development plan and policy
- Increased welfare measures to be provided to the staff

Infrastructure

- Washrooms to be upgraded; Third Gender washrooms to be constructed
- Quality maintenance of lab facilities in most of the departments should be a major priority. Quality of equipment and cleanliness must be given more attention.

Student Support and Progression

- Career counselling must be intensified to improve the attainment in competitive exams.
- A set of teachers may be trained for dedicated counselling
- Skill development to be promoted further. There can be collaborations with external agencies like Skill Development Corporation of India.

- More common rooms may be provided for the students

Library

- Digital remote access with digital repositories may be introduced to cater to the needs of online references.

Green initiatives and inclusiveness

- More emphasis should be given to the Institutional best practices by all the departments.

MoUs and Collaborations

- Placement Cell of the college should be encouraged to have agreements with industrial establishments for training and placements.
- Student exchange with other institutions should not be confined to project experiments alone.
- Every MoU should be active with at least one performed activity as per the agreement.
- College should look into possibilities of collaborations with institutions for new areas of study as per the NEP
- National and international exposure of faculty should be encouraged


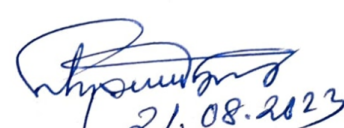
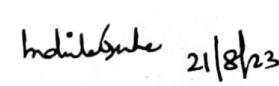
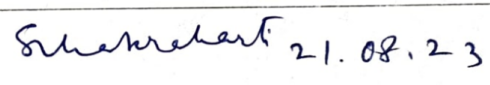
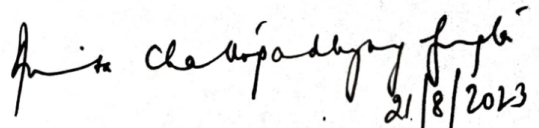
Documentation

- Ensure that the work diary of teachers is verified by the HoDs and the Principal
- Academic activities data to be maintained in a more systematic manner with regular updating.

Statutory Committees, Clubs, Cells and Associations

More events related to extension and outreach activities are to be organised to enhance campus experience and overall development of the students

Name and signature of Administrative Audit committee

| Names of the committee members | Signature & Date |
|---|--|
| External Members | |
| <p>Dr. Jaydeep Sarangi Principal New Alipore College</p> |  21.8.2023 Principal New Alipore College Block-I, New Alipore Kolkata - 700 053 |
| <p>Dr. Somnath Mukhopadhyay Principal Dinabandhu Andrews College</p> |  21.08.2023 Principal Dinabandhu Andrews College P.O. - Garia, Kolkata - 700 084 West Bengal, India |
| <p>Dr. Indrila Guha Principal Basanti Devi College</p> |  21/8/23 Dr. Indrila Guha Principal Basanti Devi College Kol-29 |
| <p>Dr. Sima Chakrabarti Principal Maharani Kasiswari College</p> |  21.08.23 Dr. SIMA CHAKRABARTI Principal MAHARANI KASISWARI COLLEGE 20, Ramkanta Bose Street, Kol-3 |
| <p>Dr. Anita Chattopadhyay Gupta Principal Deshbandhu College for Girls</p> |  21/8/2023 DR. ANITA CHATTOPADHYAY GUPTA PRINCIPAL DESHBANDHU COLLEGE FOR GIRLS KOLKATA |

Internal Members

Dr. Manas Kabi
Principal
Asutosh College

Manas Kabi
21/08/23



PRINCIPAL
ASUTOSH COLLEGE
92, S. P. MUKHERJEE ROAD
KOLKATA-700 026

Dr. Sriparna Dutta Ray
IQAC Coordinator
Asutosh College

Sriparna Dutta Ray
COORDINATOR 21/8/23
IQAC
ASUTOSH COLLEGE
92, S. P. MUKHERJEE ROAD
KOLKATA-700 026

Dr. Sayani Mukhopadhyay
General Body (GB) Member
Asutosh College

Sayani Mukhopadhyay
21/8/23

Dr. Sayani Mukhopadhyay
Associate Professor
Department of Geography
Asutosh College
(Affiliated to University of Calcutta)

Dr. Rina Kar Dutta
Teachers-Council-Secretary
Asutosh College

Rina Kar (Dutta)

Secretary
Teachers' Council

Dr. Shyamalina Haldar
Assistant Professor
Department of Biochemistry
Asutosh College

Shyamalina Haldar
21/8/23

DEPARTMENT OF BIOCHEMISTRY
ASUTOSH COLLEGE

92, S. P. Mukherjee Road, Kolkata-26



Fwd: Successfully Registered for India Rankings-2023

1 message

Asutosh College <mail@asutoshcollege.in>
To: arnabkumar.ghoshal@asutoshcollege.in

Tue, Dec 13, 2022 at 09:45

----- Forwarded message -----

From: <no-reply5@nirfindia.org>
Date: Thu, 3 Nov 2022 at 12:47
Subject: Successfully Registered for India Rankings-2023
To: <mail@asutoshcollege.in>

Dear Mr. APURBA RAY,

Greetings!

Thank you for confirming your institution details for India Rankings 2023. If you have selected a new discipline to participate in India Rankings 2023 find below the login ID's and passwords for the new applied discipline[s]. However, for discipline[s] in which you participated last year your login credentials remain same as they were for India Rankings 2022.

| Applied/New Discipline | User ID | Password |
|------------------------|--------------|------------|
| COLLEGE | IR-C-C-11866 | EBE51D8144 |
| OVERALL | IR-O-C-11866 | 2A019A020C |

Please note: This is an auto generated email. In case of any technical queries please contact: techsupport[at]nirfindia[dot]org or call on +91 79 2326 8247.

Regards,
Team NIRF



Successfully Registered for India Rankings-2023

1 message

<no-reply6@nirfindia.org>

Thu, Nov 3, 2022 at 12:47

To: arnabkumar.ghoshal@asutoshcollege.in

Dear Mr. ARNAB KUMAR GHOSHAL,

Greetings!

Thank you for confirming your institution details for India Rankings 2023. We have sent an acknowledgement email containing discipline wise ID's and passwords for India Rankings 2023 to your Head of Institution email address.

Please note: This is an auto generated email. In case of any technical queries please contact:
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Regards,
India Rankings Team



Memorandum of Understanding, MOU

ACADEMIC SESSION: 2022-2023

Asutosh College has collaborated with different organizations (academic and non-academic) coming together as seemingly one institution to steer forward to a brighter future.

Two collaborating organizations when cooperate and work together for mutual benefits can deliver better results for all stakeholders involved, primarily for the students.

Whenever two such organisations decide to hold hands and work together, they may as well choose to pen down the terms of agreement on which they intend to partner each other, on a piece of document termed as MEMORANDUM OF UNDERSTANDING or MOU. The MOU outlines what each organisation agrees to contribute to a partnership, a time frame for delivering the desired outcome, details of how each party will contribute and how the parties will authorize and pay for any costs (if the collaboration demands and costs are incurred in delivering the desired outcomes).

Asutosh College took initiative to develop collaborations with various educational and research institutions, organizations and industries for the betterment of teaching and student and administrative community. The following collaborations have been already processed in the year 2022-2023.

Link: <https://asutoshcollege.in/new-web/committee-of-mou.html>

| Serial No | Name of the Institutions (Affiliation) | Place (District) | MoU Date | Activity Date |
|------------------|---|-------------------------|-----------------|----------------------|
| 1 | Desh Bandhu College (CU) | Kolkata | 16.05.2023 | 19.05.2023 |
| 2 | Fakir Chand College (CU) | South 24 Pgs | 29.05.2023 | 23.06.2023 |
| 3 | Garbheta College (VU) | Paschim Medinipur | 12.05.2023 | 15.05.2023 |
| 4 | Bijoy Krishna Girls' College (CU) | Howrah | 12.06.2023 | - |
| 5 | Uluberia College, (Day+ Evening) (CU) | Howrah | 12.06.2023 | 16.06.2023 |
| 6 | Raiganj Surendranath Mahavidyalaya (GBU) | Uttar Dinajpur | 08.06.2023 | 13.06.2023 |
| 7 | Panskura Banamali College (VU) | Purba Midnapur | 22.06.2023 | 28.06.2023 |

| | | | | |
|-------------------|---|------------------|------------|------------|
| 8 | Banwarilal Bhalotia College (Morn+Day+Evn) (KNU) | Paschim Bardwan | 29.05.2023 | 22.06.2023 |
| 9 | Malda College (GBU) | Malda | 26.05.2023 | 20.06.2023 |
| 10 | Bankura Sammilani College.(Bankura University) | Bankura | 15.05.2023 | 18.05.2023 |
| 11 | Bankura Zilla Saradamani Mahila Mahavidyalaya (Bankura University) | Bankura | 8.05.2023 | 18.05.2023 |
| 12 | Dinabandhu Andrews College (CU) | South 24 Pgs | 16.05.2023 | 22.05.2023 |
| 13 | Victoria Institutio (W), (CU) | Kolkata | 12.06.2023 | 16.06.2023 |
| 14 | Berhampur College (KU) | Murshidabad | 23.05.23 | 02.06.23 |
| 15 | Berhampore Girls' College (KU) | Murshidabad | 26.06.23 | 28.06.2023 |
| 16 | Basanti Devi college (CU) | Kolkata | 12.06.2023 | - |
| 17 | Acharya Brojendra Nath Seal College (CPBU) | Cooch Behar | 15.05.2023 | 25.05.2023 |
| 18 | Nabagram Hiralal Paul College (CU) | Hooghly | 12.05.23 | 17.05.2023 |
| 19 | Raja Peary Mohan College | Hooghly | 19.05.23 | 24.5.2023 |
| 20 | Maynaguri College (NBU) | Jalpaiguri | 15.06.2023 | 23.06.2023 |
| 21 | Ananda Chandra College (NBU) | Jalpaiguri | 22.05.2023 | 07.06.2023 |
| 22 | Alipurduar College (NBU) | Alipurduar | 09.06.2023 | 19.06.2023 |
| 23 | Alipurduar Mahila Mahavidyalaya (NBU) | Alipurduar | 12.05.2023 | 19.05.2023 |
| 24 | Balurghat Mahila Mahavidyalaya (GBU) | Dakshin Dinajpur | 12.06.23 | 21.06.2023 |
| 25 | Trivenidevi Bhalotaia College (KNU) | Paschim Bardwan | 29.05.2023 | 21.06.2023 |
| 26 | Chakdaha College (KNU) | Nadia | 26.06.2023 | 30.06.2023 |
| 27 | Jagannath Kishore College (SKBU) | Purulia | 12.05.2023 | 17.05.2023 |
| 28 | Nistarini College (SKBU) | Purulia | 14.06.23 | 20.06.2023 |
| 29 | Bidhan Chandra College (KNU) | Kalyani (Nadia) | 24.05.23 | 02.06.2023 |
| Industries | | | | |
| 1 | REDIVIVUS RECYCLERES PVT LTD | Kolkata | | 08.05.2023 |
| 2 | EARTH STAR MUSHROOM | Howrah | | 12.06.2023 |
| 3 | CHANDANNAGAR ADVENTURE SPORTS CLUB | Chandannagar | | 15.06.2023 |

Nature of activities:

1. Faculty Exchange Program
2. Student Exchange Program



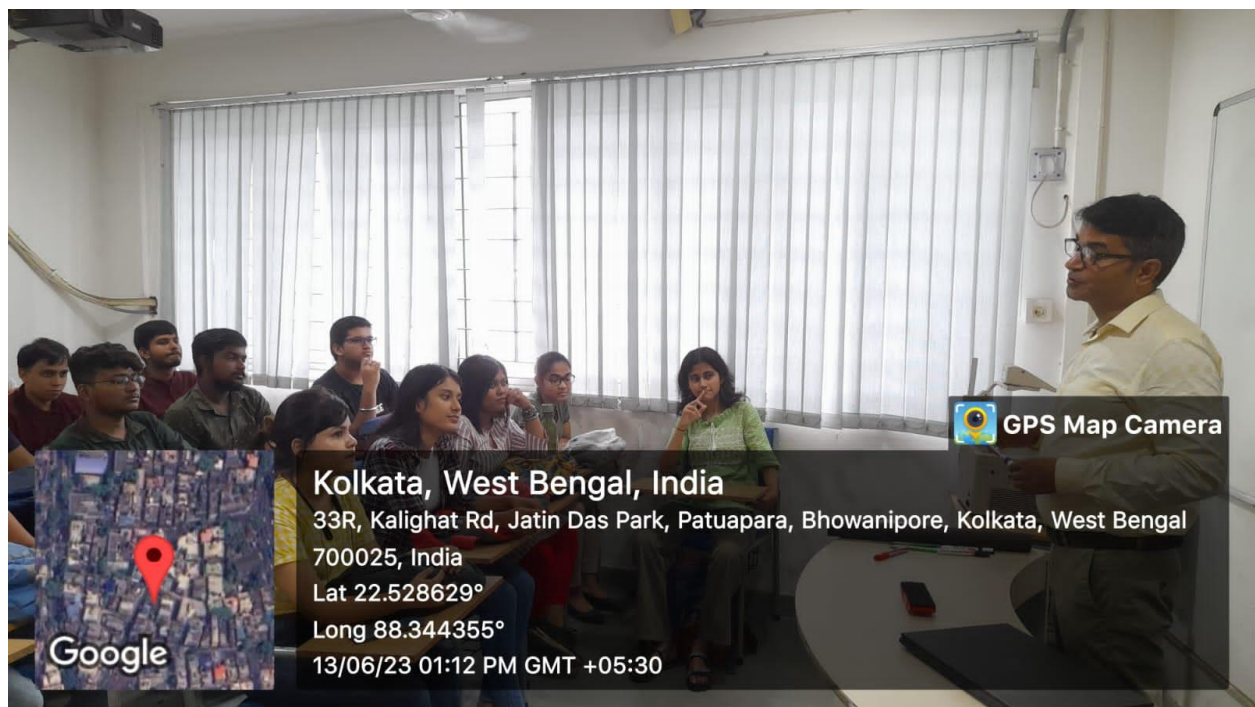
Faculty Exchange at Deshbandhu College for Girls (19.05.2023)



Faculty Exchange at Fakirchand Chand College (23.06.2023)



Faculty Exchange at Balurghat College (21.06.2023)



Faculty Exchange Program on Gender Equity, held at centenary building under MOU with Raigunge Surendranath college



MoU signed between Asutosh College and Garbeta College (12.05.2023)



MoU signed between Asutosh College and Malda College (26.05.2023)



MoU signed between Asutosh College and TBD College (29.05.2023)



MoU signed between Asutosh College and Chakdaha College (26.06.2023)

Signature of Principal

Manas Kabi

PRINCIPAL
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 KOLKATA-700 026