

Under Graduate Course in Botany:

The Department of Botany has offered B.Sc. honours course in Botany capable to house a large number of students. The students are constantly guided by eight esteemed full time faculties and also specialised guest faculty. The classrooms are spacious with green boards and other modern amenities. Laboratory facilities are excellent with all the modern instruments required for conducting practical experiments in under graduate level. The institution offer up to date microscopes to each students (one student one microscope) for better understanding and learning. Beyond all these the Department has well equipped smart class rooms and e-class rooms to bring the world class teaching technologies in front of our students. Besides the excellent central library with wide ranges of books, the Department itself proffered seminar library harnessing specialized books for the students. This Department has also taken some student development initiatives like, teacher-guardian meet, regular class tests, assessment tests before university examinations etc. Other activities involving departmental fresher's welcome and scientific poster presentation competition are also organised for self developments of the students both culturally as well as academically. The most important event of the course curriculum is academic botanical excursions and field work. Excursions (local and out station excursion) are conducted for the betterment of the students. The students are also benefitted through the visit and demonstration programme to Botanical Survey of India (BSI) and Central National Herbarium (CNH), Kolkata. The excursion and field work programmes are compulsory and necessary for the future academic skill developments of the students. The department has also put forward Post Graduate course in Botany for the future prospects of the students.

Highlights:

1. • Contant surveillance
• Guardian-Teacher meet
2. • Modern teaching technology
• Excellent laboratory
3. • Remedial classes
• Self development
4. • Academic excursion and field works
• Visit to BSI
5. • Wide range of jar specimens in museum
• Fossil specimens of ancient plants

Post Graduate Course in Botany:

The Department of Botany successfully hold out post graduate course in Botany with all the modern facilities for the up-gradation of the students. This Department presently has thirty positions in M.Sc curriculum with constant guidance from experienced full time faculties from this institution as well as a number of renowned faculties, scientific personalities and academicians from different famous Universities and Institutions. The department has spacious class rooms to accommodate students perfectly. All the post graduate class rooms are equipped with modern teaching aids, DLP Projectors and laptops. The college has a large library facility with a separate post graduate section embellished with a rich collection of books by regular procuring all updated books (both nation & internation publications) and research journals in direct access to the students. Well equipped computer laboratory with large number of sophisticated computers and constant high speed internet facility is another unique feature of the course. Besides, smart class rooms and e-classrooms are also dedicated for the student benefits. The department has well equipped laboratories furnished with up to date sophisticated instrumentation facilities to conduct modern plant biotechnology, molecular biology, chromosome technology, plant genetics, plant pathology & mycology works. Our post graduation course has presently offered three leading special paper options namely, Plant Genetics & Biotechnology, Phycology and Taxonomy of Angiosperms. All the specializations offer different respective laboratories with modern instruments like, PCR, HPTLC, Electrophoresis unit, transilluminator, electronic weighing machines, Gel documentation system, laminar air flow, incubators, pH meters, high end microscope with image capturing facility etc. The department has a well organized temperature controlled culture room for tissue culture and algal culture facility development.

A large number of Professors and Scientists from Calcutta University, Kalyani University, Burdwan University, Indian Institute of Chemical Biology (IICB), Bose Institute have directly engaged in development of our PG Department in different aspects.

Research facility:

The department extends its possibilities in the platform of world class research with extraordinary facilities and cutting edge technologies. The department is funded by several renowned funding agencies e.g. UGC, CSIR, DBT, DST etc. in varied range of research projects for the steep development in the research works. The endless enthusiasm in active research has presented a high throughput plant biotechnology, tissue culture, Cell culture for pharmaceutical compounds, Chromosome biology, molecular mycology & pathology etc. Many research facilities with new dimensions are underway. Several research scholars are actively engaged in their Ph.D (doctoral) as well as Post-doctoral works in this department.

Ph.D. Course work

Ph.D. Course work in Botany for RET under “Swami Vivekanandare for Multidisciplinary Research in Basic Sciences and Social Sciences” is a part for Ph.D. degree from this college.

Instrumentation facilities offered by the Department of Botany:

1. Thermo cycler for Polymerase chain reaction (PCR) [BioRad- 2 units].
2. Gel documentation system [BioRad].
3. Refrigerated centrifuge [Beckman-1unit, REMI – 2 units].
4. Deep freezer [-20°C (2- units) and -80°C freezers]
5. Ultra Centrifuge (Beckman)
6. Spectrophotometer [UV-/Vis Shimadzu].
7. High resolution microscope with image capturing facility [Leica].
8. Fluorescence Upright Microscope with image capturing facility [Zeiss]
9. Stereo Zoom microscope with image capturing facility [Leica].
10. Inverted microscope [Zeiss]
11. Florescence inverted Microscope with image capturing facility [Olympus]
12. High pressure/performance liquid chromatography (HPLC) [Waters].
13. High Performance Thin Layer Chromatography (HPTLC) [Camag]
14. Rotary shakers (3- unit).
15. Lyophilizer.
16. Incubator Shaker (temp. Controlled)
17. BOD (Unit-3)
18. Laminar Air Flow (6-Units)
19. Electronic balance (10- unit)
20. Precision balance (Mettler)

Prospectus: Department of Botany

21. Temperature controlled culture room (2- unit)
22. Poly/ shade Net house for experimental plants (3-units).
23. Experimental garden

Other activities:

1. The department is actively engaged in arranging scientific talks, seminars and symposia in both national and international level.
2. Several workshops and hands on training programmes have been initiated for the overall scientific developments.
3. An UGC recognized certificate course in mushroom cultivation has been carried out. [Coordinator: Dr. S.K. Ghosh, Botany Department].