

Date: 2nd February, 2023

Time: 9.30 am – 4.30 pm

Venue: Bose Institute Unified Academic Campus, Bidhan Nagar, Kolkata-700091

Title of the event: Visit to a Research Institute

Name of the Department: Biochemistry

Organizing Committee: Department of Biochemistry in association with Bose Institute, Kolkata

Summary of the event:

A total number of 25 students of semester 1 from the Department of Biochemistry were selected and sent for a visit to the laboratories in Bose Institute with a view to develop rich research eco-culture and encourage a scientific temper towards research and technology among the students. The day started with a Welcome Address by Dr. Anupama Ghosh, Associate Professor, Division of Plant Biology, Bose Institute, followed by two lectures by two eminent scientists:

- (1) Introduction to microscopy techniques used in biological research by Prof. Srimanti Sarkar.
- (2) Fundamentals of the analysis of the biological macromolecules by Prof. Subho Chaudhuri.

The students were next transferred to laboratory where they were provided with demonstration and hands-on experiences of selected scientific experiments and modern sophisticated instruments. The instruments shown included nucleic acid and protein gel electrophoresis system, confocal microscopy, automated analyzer, centrifuge and lyophilizer. The students were also accompanied to visit the tissue culture facility where they were shown how the maize plants are grown, injected with *Ustilago maydis* fungus and their effects on the maize plants. The final visit for the students was arranged to a Microbiological laboratory to observe the microbiological experiments on streaking of bacterial colonies and growth of microbes in BOD incubator and shaker.

The students were next transferred from Bose Institute, Saltlake Campus to main campus at Rajabazar, Kolkata where they were allowed to have a tour round the building and visit the museum. During this short-tour, the students were enlightened with the history of the institute and reminiscence of the

pioneer research works of Sir Acharya Jagadish Chandra Bose followed by an exhibition of his instruments.

Benefits/outcome of the initiative for the students:

The sole purpose of conducting the Research institute Tour was to aware the students about the benefits of scientific research and technology. The young students were encouraged towards scientific researches by the senior and young researchers who shared their research infrastructure with them. The students were being exposed for the first time to the research eco-culture through demonstration of scientific experiments and sophisticated instruments .

Future Goal:

The department of Biochemistry has a plan to make it an annual program so that each year newly admitted students could get a chance to enrol themselves for this program and can get an exposure to the outer and broader scientific research community.

Photo Gallery:



