

OUTREACH PROGRAM

Venue: Institution Of Excellence, Vijnana Bhavan, Mysuru 570006

Date: 31st May 2025

Time: 10.30 AM

Course: M.Sc., Microbiology II Semester

Number of students: 35

Purpose of Visit: To study various imaging instruments and data analysis methods. This also provides a platform for students to utilize the advanced analytical instruments for characterization and analysis of research samples for academic project purposes.

Faculty Accompanied: **Dr. Jamuna Bai A** (Assistant Professor)

Dr. Sunita C. Mesta (Assistant Professor)

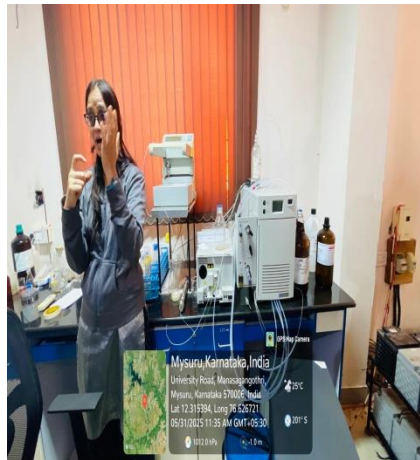
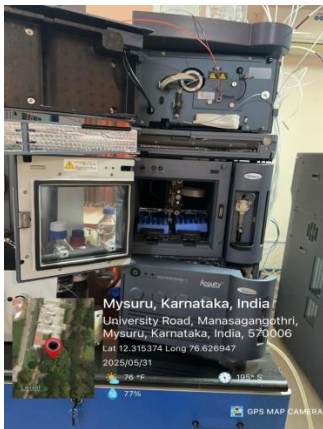
Technicians Assisted (IOE): **Mrs. Chethana** (Minor Equipment Incharge)

Mr. H.K Adarsh Kumar (XRD Incharge)

A total of thirty five students and two faculty member from Department of Microbiology, JSS AHER, visited Institution Of Excellence (IOE), Vijnana Bhavan, Mysuru as a part of their curriculum to learn about construction and working principle of various instruments mentioned in the syllabus.

A brief orientation was conducted by the Faculty of IOE explaining the ongoing initiatives at the IOE Vigyan Bhavan. The students were taken both to the minor and major instrument facilities. The Technicians of respective equipments Incharge explained and demonstrated about the high end Equipments such as UV-Visible Spectrophotometer, SDS polyacrylamide gel electrophoresis, Nuclear Magnetic Resonance (NMR), Liquid Chromatography-Mass Spectrometry (LCMS), X-ray crystallography (XRD) for determining the atomic and molecular structure of crystals, Scanning Electron Microscope (SEM) for analysis of Biological samples and Nanoparticles. The other instruments included Gel Documentation System also known as Gel image system widely used for imaging and documentation of samples like proteins and nucleic acids, Polymerase Chain Reaction (PCR) used to clone and sequence genes and Real Time Reverse Transcription Polymerase Chain Reaction (RT-PCR) assay to rapidly detect the SARS-CoV, Laser Scanning Confocal Microscopy (LSCM), Analytical and Semi Preparative High Performance Liquid Chromatography (HPLC). The students interacted with the Technicians. The visit provided valuable practical learning experiences and career insights for the students.

PHOTOGRAPHS



Department of Microbiology
Life Sciences & Life Sciences Departments
JSS Academy of Higher Education & Research
(Deemed to be University)
Accredited "A⁺⁺" Grade by NAAC

