ST. XAVIER'S COLLEGE, MAPUSA GOA

College with Potential for Excellence Re accredited by NAAC with A Grade Awarded DBT STAR College Scheme

Nature of Event (Workshop, Guest Lecture, Add-on Course, Seminar, etc.)	Workshop
Name of Department	Biotechnology
Faculty In-Charge	Ms. Anjelica Matias, Ms. Sneha Mangaonkar and Mr. Francisco Colaco.
Stratum of Event (College, State, Regional, National)	National Level
Title of Event	'Operation and Maintenance of Laboratory Equipment' in collaboration with WRIC Mumbai.
Date of Event	8th January 2024 – 12th January 2024
Venue	St. Xavier's College- Mapusa Goa.
Objective/ Scope of Event	To equip participants with practical skills and comprehensive training in the calibration, operation and maintenance of a wide array of laboratory instruments and equipment.
Particulars of Event	Assistant professor Ms. Anjelica Matias, Laboratory Assistant Ms. Sneha Mangaonkar and Laboratory attendant Mr. Francisco Colaco attended the 5 day National Level workshop on course on 'Operation and Maintenance of Laboratory Equipment' organized by the Department of Microbiology, St. Xavier's College in collaboration with WRIC Mumbai India from 8th January 2024 to 12th January 2024. The workshop was a comprehensive five-day event designed to enhance the participants' knowledge and skills in the operation and maintenance of laboratory equipment. The training sessions included both theoretical lectures and hands-on practical experiences, facilitated by Mr. N.N. Rao and his team of eight experts. **Topics Covered:** • **Basic Electronic Components**: Identification and understanding of various components. • **Power Supply**: Operational principles and maintenance.

	• **Signal Generator**: Usage and troubleshooting. • **Cathode Ray Oscilloscope (CRO)**: Functions and upkeep. • **pH Meters, Spectrophotometers, Colorimeters, and Microscopes**: Detailed operational procedures and maintenance. • **Digital Multimeter**: Practical exercises on measuring resistance, checking diodes and transistors, and using LED displays. • **Soldering Components**: Hands-on practice on a vegaboard. • **Digital Storage Oscilloscope (DSO)**: Usage and differences from other oscilloscopes. • **Thermostats**: Understanding their application, especially in heating mantles. • **Incubators, Ovens, and Furnaces**: Comparative study and significance.
Outcome of Event	Participants learnt to measure voltage using digital multimeters, identify and troubleshoot electronic components, repair and service unused laboratory instruments and ensure proper SOP's are followed in laboratories.
Feedback	The workshop provided an in-depth understanding of the construction, operation, and maintenance of various laboratory instruments. The hands-on sessions were particularly beneficial, allowing participants to develop troubleshooting skills. The interactive repair sessions reinforced the theoretical knowledge, empowering the attendees to address and resolve issues with laboratory equipment effectively.

Total No. of Participants	03

Photographs