



ST. XAVIER'S COLLEGE, MAPUSA GOA

Report of Activity conducted in the Academic Year 2025-26

Name of Activity	Hands-on Training: Understanding Lab Instruments
Date/ Duration	5th and 6th of February 2026
Venue	St. Xavier's College
Name of organizing Department/Cell	Department of Post Graduate Department of Physical Chemistry, St. Xavier's College.
In collaboration with	
Name/s of Faculty Co ordinator	Mrs. Rupali Neje
Stratum of Event	College
Name & details of Resource Person/s if any	-
Report	<p>The Post Graduate Department of Physical Chemistry at St. Xavier's College, Mapusa-Goa, organized a two-day "Hands-on Training: Understanding Lab Instruments" on the 5th and 6th of February 2026. The sessions was specifically designed for the M.Sc Part II and T.Y.B.Sc Chemistry students. The training aimed to provide practical insights into the functioning and applications of sophisticated analytical instruments.</p> <p>The first day, held on 5th February 2026, covered three key instrumental techniques. The session commenced with an explanation of Cyclic Voltammetry by Mrs. Mamata Prabugaunkar, who elaborated on its principles and electrochemical applications. This was followed by a detailed presentation on X-Ray Diffraction (XRD) by Ms. Flavia Travasso, focusing on its role in structural characterization of materials. The final session of the day was conducted by Ms. Fami Fernandes, who provided an overview of Fourier Transform Infrared Spectroscopy (FTIR) and its utility in functional group identification.</p> <p>On the second day, 6th February 2026, the training focused on optical spectroscopic methods. Mrs. Rupali Neje led the session, delivering a comprehensive explanation of both Ultraviolet visible Spectroscopy and Flame Spectrophotometry. Her talk covered the working principles, instrumentation, and quantitative applications of these techniques in chemical analysis. Throughout both days, the speakers effectively bridged theoretical concepts with hands-on understanding,</p>

	enriching the technical knowledge of the participating students.
Brochure/Poster	https://xavierscollegegoa.ac.in/wp-content/uploads/2026/02/Poster-of-Hands-on-Training-Understanding-Lab-Instruments.pdf
Photographs	https://xavierscollegegoa.ac.in/wp-content/uploads/2026/02/Photographs-of-Hands-on-Training-Understanding-Lab-Instruments.pdf
List of participants with signatures	https://xavierscollegegoa.ac.in/wp-content/uploads/2026/02/List-of-participants-of-Hands-on-Training-Understanding-Lab-Instruments.pdf
Certificate	NA