



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.)	Hands-on Session
Name of Department	Chemistry
Faculty Incharge	Ms. Janesline Fernandes Dr. Andrew D'Souza
Stratum of Event (College, State, Regional, National)	College
Title of Event	Fourier Transform Infrared Spectroscopy Training
Date of Event	19 th March 2022
Venue	Instrumentation Centre, Post-Graduation Block, St Xavier's College Mapusa-Goa
Resource Person details	Dr. Andrew D'Souza Assistant Professor Department of Chemistry, St Xavier's College
Objective/Scope of Event	Emphasize basic principles of FT-IR Instrumentation, data processing and sampling techniques.
Particulars of Event	The Fourier Transform Infrared Spectroscopy training included a brief introduction on the Fundamentals of Molecular Spectroscopy by Dr. Andrew D'Souza Assistant Professor Department of Chemistry, St Xavier's College Mapusa-Goa The Fourier Transform Infrared Instrumentation training carried out by Dr. Andrew D'Souza provided students and teachers with instructions on Fourier Transform Infrared instrumentation, basic instrument maintenance, data acquisition software, sample preparation and the use of various accessories, enabling students and teachers to acquire good quality spectra by either reflectance or transmission. The Fourier Transform Infrared spectroscopy Instrument training also covered sample preparation of solids, liquids, and pastes for both reflectance (Universal Attenuated Total Reflectance UATR), and transmission studies.
Outcome of Event	Teachers learnt the most direct way to interpret an IR spectrum and how to compare an unknown spectrum with known reference spectra. Hands on Interpretation exercises were carried out which focused on IR spectrums and the chemical bonds present that cause an infrared absorption in a particular region of the spectrum.

Feedback	Very well organized.
Total No. of Participants	9 Teaching faculty members

Photographs

