



ST. XAVIER'S COLLEGE, MAPUSA GOA

Report of Activity conducted in the Academic Year 2024-25

Name of Activity	Value-Added Course: Computers in Chemistry
Date/Duration	3 Hours (24 th February 2025, 17 th March 2025 and 18 March 2025)
Venue	St. Xavier's College, Science Building, Class Room No. 210
Name of organizing Department/Cell	Department of Chemistry
In collaboration with	
Name/s of Faculty Coordinator	Dr. Johnross V. Albuquerque
Stratum of Event	College students
Name & details of Resource Person/s If any	Dr. Johnross Albuquerque and Dr. Mira Parmekar
Report	<p>The certificate course on Chemistry was designed to teach the TY and SY Chemistry students about various Chemistry softwares. The three softwares chosen were (1) Chems sketch, (2) MS Excel and (3) Origin.</p> <p>The first session was conducted on 24th February 2025. Dr. Mira Parmekar engaged the session on 'Chems sketch' – a software used by Chemists for drawing organic chemistry structures. She began with the basic functions available in the software followed by demonstrating how to draw molecules with long chains, having ring structures and chiral centres. The students learnt how to draw reaction mechanisms with different arrows showing movement of electrons, inserting reagents on arrows etc.</p> <p>The second session on MS Excel was taken by Dr. Johnross Albuquerque on 17th March 2025. Dr. Albuquerque began the session by introducing a short history about development of Computers and how they are useful for Chemists to analyze and plot various graphs. He taught the students different functions and formulas in-built in excel and how to use them, plotting different graphs and how to find reaction endpoints from graphs.</p> <p>The last session on Origin was taken by Dr. Mira Parmekar on 18th March 2025 where Dr. Mira taught the students how to plot graphs, spectra, etc. Each of the session was based on Hands-on experience where students brought their laptops and followed the resource person as the session continued.</p> <p>There were participants from FY, SY and TY. A total of 28 students enrolled for the course.</p>

Brochure/Poster	https://xavierscollegegoa.ac.in/wp-content/uploads/2025/05/Brochure-VAC-COMPUTERS-IN-CHEMISTRY.pdf
Photographs	https://xavierscollegegoa.ac.in/wp-content/uploads/2025/05/Photo_1.pdf
List of participants With signatures	NA
Certificate	https://xavierscollegegoa.ac.in/wp-content/uploads/2025/05/Certificate-for-VAC-Course-Computers-In-Chemistry.pdf