



ST. XAVIER'S COLLEGE, MAPUSA GOA

Report of Activity conducted in the Academic Year 2024-25

Name of Activity	Hands-on Workshop on "Tools in Bioinformatics"
Date/ Duration	20 th – 24 th February 2026 (03 days)
Venue	Computer Lab, PG Block, St. Xavier's College, Mapusa-Goa
Name of organizing Department/Cell	Department of Microbiology
In collaboration with	Microbiologists Society India
Name/s of Faculty Co ordinator	Dr. Valerie Gonsalves
Stratum of Event	College Level
Name & details of Resource Person/s if any	Dr. Nadine de Souza, Assistant Professor, Department of Microbiology, St. Xavier's College, Goa.
Report	<p>The workshop aimed to introduce students to fundamental bioinformatics tools and databases and to provide practical exposure to sequence analysis techniques.</p> <p>The primary objectives of the workshop were to familiarize participants with biological databases such as NCBI, understand sequence retrieval methods, perform sequence alignment using BLAST, and gain insight into phylogenetic analysis and protein structure prediction tools. The sessions combined theoretical inputs with extensive practical training to enhance computational skills relevant to microbiology research.</p> <p>Dr. Nadine de Souza served as the resource person and guided students through hands-on exercises involving nucleotide and protein sequence analysis. Participants were trained in sequence alignment, interpretation of BLAST results, and basic phylogenetic tree construction. Interactive sessions allowed students to clarify concepts and apply tools to real biological datasets.</p> <p>The workshop successfully enhanced students' understanding of the integration of biology with computational tools. Participants developed confidence in handling bioinformatics software and interpreting biological data. The activity benefited 45 undergraduate students of Microbiology.</p>
Brochure/Poster	https://xavierscollegegoa.ac.in/wp-content/uploads/2026/04/Brochure-of-Hands-on-Workshop-on-

	Tools-in-Bioinformatics.pdf
Photographs	https://xavierscollegegoa.ac.in/wp-content/uploads/2026/04/Image-of-Hands-on-Workshop-on-Tools-in-Bioinformatics.pdf
List of participants with signatures	https://xavierscollegegoa.ac.in/wp-content/uploads/2026/04/Attendance-of-Hands-on-Workshop-on-Tools-in-Bioinformatics.pdf
Certificate	NA