



ST. XAVIER'S COLLEGE, MAPUSA GOA

Report of Activity conducted in the Academic Year 2026-27

Name of Activity	Value-added course entitled "Applied Water Microbiology: Potability Assessment and Wastewater Management"
Date/ Duration	6 th July 2026 to 4 th September 2026 (15 hours)
Venue	Room No – 208 /Microbiology Lab, 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	Ms. Katelyn Gonsalves
Stratum of Event	College Level
Name & details of Resource Person/s if any	Ms. Linette de Souza, (Associate Professor), Ms. Katelyn Gonsalves (Assistant Professor) and Ms. Ruella D'Souza (Assistant Professor) Department of Microbiology, St. Xavier's College, Goa.
Report	28 Second Year Microbiology students completed a 15-hour value-added course conducted as theory and practical sessions from 6th July 2026 to 4th September 2026. The course was designed to provide students with an application-oriented understanding of water microbiology, drinking-water quality assessment and the basic principles of wastewater management. The theory component included 4 modules covering topics including water as a microbial habitat, waterborne pathogens and diseases, water potability, microbiological standards and methods used for assessing drinking-water quality. Students were introduced to wastewater microbiology with emphasis on the role of microorganisms in wastewater treatment, and basic principles of primary, secondary and biological treatment processes. The course also consisted of hands-on practical sessions. Students collected and examined water samples from drinking-water sources on the college campus and other selected water sources. They gained practical exposure to sample collection and handling, microbiological examination of water samples, and interpretation of results for evaluating drinking water quality. Overall, the course provided students with practical, skill-oriented exposure to the application of microbiology in water-quality assessment, thereby complementing their undergraduate curriculum and promoting experiential learning.

Brochure/Poster	NA
Photographs	https://xavierscollegegoa.ac.in/wp-content/uploads/2026/10/photo-of-Value-added-course-entitled-Applied-Water-Microbiology-Potability-Assessment-and-Wastewater-Management.pdf
List of participants with signatures	https://xavierscollegegoa.ac.in/wp-content/uploads/2026/10/list-of-participants-with-sign-of-Value-added-course-entitled-Applied-Water-Microbiology-Potability-Assessment-and-Wa.pdf
Certificate	https://xavierscollegegoa.ac.in/wp-content/uploads/2026/10/certificate-of-Value-added-course-entitled-Applied-Water-Microbiology-Potability-Assessment-and-Wastewater-Management.pdf