



Sanjivani Rural Education Society's
SANJIVANI ARTS, COMMERCE AND SCIENCE COLLEGE
At: Sahajanandnagar, Post: Shingnapur, Tal: Kopergaon,
Dist: Ahmednagar (M.S.) Pin:423603
Recognized by Govt. of Maharashtra, Affiliated to University of Pune, ID.No.PU/AN/ACS/130/2012



Department of Microbiology (M.sc)

Program Outcomes (POs)	
PO1	Students will demonstrate a deep understanding of core concepts across various microbiological domains, including microbial systematics, molecular biology, immunology, clinical microbiology, and microbial technology.
PO2	Students will develop the ability to apply statistical, bioinformatics, and molecular tools for research, experiment design, and data analysis. They will gain hands-on experience in laboratory techniques, instrumentation, and microbial diagnostics.
PO3	Students will acquire practical skills in advanced microbiological techniques such as PCR, enzyme kinetics, microbial isolation, DNA sequencing, and bio-nanotechnology, preparing them for roles in research and industry.
PO4	Students will be equipped to solve complex biological problems by applying scientific reasoning, molecular tools, and a thorough understanding of microbial systems. This includes designing experiments, analyzing results, and drawing meaningful conclusions.
PO5	Students will gain practical knowledge of microbial applications in industries such as pharmaceuticals, fermentation, and bioremediation, with specific expertise in quality assurance, validation, and drug discovery processes.
PO6	Students will understand the role of microbes in environmental sustainability through bioremediation, biomass utilization, and wastewater treatment, contributing to eco-friendly solutions for industrial challenges.
PO7	Students will learn the importance of ethical practices, Good Laboratory Practices (GLP), Good Manufacturing Practices (GMP), biosafety, and adherence to international standards such as ISO and WHO in microbiological research and industry.
PO8	Students will be able to effectively communicate scientific findings, participate in collaborative research, and continually update their knowledge through self-directed learning, professional development, and adaptation to new technologies.


PRINCIPAL
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