

Sant Gadge Baba Amravati University, Amravati

Department of Microbiology

Programme Outcomes, Programme Specific Outcomes and Course Outcomes

2.6.1 : Program outcomes (POs), program specific outcomes (PSOs) and course outcomes (Cos) for all programs offered by the institution

Name of the Department:-	Microbiology
Name of the Program:-	M.Sc. Microbiology
PSO of the Program:-	<p>PSO1. Understand the nature and basic concepts of Microbiology, Microbial biochemistry, Microbial ecology.</p> <p>PSO2. Analyse the relationships among microbes and plants/ animals/ humans</p> <p>PSO3. Perform procedures as per laboratory standards in the areas of Biochemistry, Bioinformatics, Taxonomy, Ecology, Fermentation and Microbial Technology</p> <p>PSO4. Understand the applications of Microbiological sciences in Agriculture, Medicine, Environment etc.</p>
PO of the Program:-	<p>Students of M.Sc. Microbiology degree Programmes at the time of graduation will be able to</p> <p>PO1.Critical Thinking: Take informed actions after identifying the assumptions that frame our thinking and actions, checking out the degree to which these assumptions are accurate and valid, and looking at our ideas and decisions (intellectual, organizational, and personal) from different perspectives.</p> <p>PO2.Effective Communication: Speak, read, write and listen clearly in person and through electronic media in English and in one Indian language, and make meaning of the world by connecting people, ideas, books, media and technology.</p> <p>PO3. Social Interaction: Elicit views of others, mediate disagreements and help reach conclusions in group settings.</p> <p>PO4. Effective Citizenship: Demonstrate empathetic social concern and equity centred national development, and the ability to act with an informed awareness of issues and participate in civic life through volunteering.</p>

	<p>PO5. Ethics: Recognize different value systems including your own, understand the moral dimensions of your decisions, and accept responsibility for them.</p> <p>PO6. Environment and Sustainability: Understand the issues of environmental contexts and sustainable development.</p> <p>PO7. Self-directed and Life-long Learning: Acquire the ability to engage in independent and life-long learning in the broadest context socio-technological changes</p>
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Sr. No.		
Course Name		Course Outcomes
Microbial Techniques	1MCB1	Student should be able to conduct various techniques used in microbiology independently for analysis.
Microbial Enzymology	1MCB2	Student should be able to understand the science of enzymes and enzyme action.
Microbial Physiology and Photosynthesis	1MCB3	Student should be able to comprehend the various physiological processes exhibited by different microorganisms.
Environmental Microbiology	1MCB4	Student should be able to understand microbial interactions with the environment.
Biostatistics, Bioinformatics and Computer Applications	2MCB1	Student should be able to apply statistics in microbiology, bioinformatics and computers in microbiological applications.
Enzyme Technology	2MCB2	Student should be able to use enzymes in various biological technologies.
Microbial Metabolism	2MCB3	Student should be able to grasp the metabolism of different kind of microorganisms.