

**PG AND RESEARCH DEPARTMENT OF MICROBIOLOGY**

**PROGRAMME OUTCOME FOR B.Sc., DEGREE**

<b>PO No.</b>	<b>Program Outcomes</b> <i>(Upon completion of the B.Sc. Degree Programme, the Undergraduate will be able to)</i>
<b>PO-1</b>	<b>Disciplinary knowledge:</b> demonstrate comprehensive knowledge and understanding of one or more disciplines that form a part of an undergraduate programme of study in Bachelor of Science.
<b>PO-2</b>	<b>Critical thinking and Problem Solving:</b> think critically about the issues and identify, critically analyze and solve problems from the disciplines of concern using appropriate tools and techniques and the knowledge, skills and attitudes acquired and extrapolate the same to real life situations.
<b>PO-3</b>	<b>Scientific reasoning:</b> analyse, interpret and draw conclusions from quantitative/qualitative data; and critically evaluate ideas, evidence and experiences from an open-minded and reasoned perspective.
<b>PO-4</b>	<b>Digital literacy and Effective Communication:</b> use ICT in a variety of learning situations and speak, read, write and listen clearly in person and through electronic media in English and in one or more Indian languages, and make meaning of the world by connecting people, ideas, books, media and technology.
<b>PO-5</b>	<b>Individual and Team Work:</b> effectively accomplish tasks individually as well as work effectively and respectfully as member or leader with diverse teams, facilitate cooperative or coordinated effort on the part of a group, and act together as a group or a team in the interests of a common cause and work efficiently as a member of a team.
<b>PO-6</b>	<b>Environment and Sustainability:</b> understand the impacts of technology and business practices in societal and environmental contexts, and sustainable development.
<b>PO-7</b>	<b>Human values and Gender Issues:</b> understand major ideas, values, beliefs, the nature of the individual and the relationship between self and the community and aware of the various issues concerning women and society
<b>PO-8</b>	<b>Self directed and Lifelong learning:</b> acquire knowledge and skills, including learning “how to learn”, that are necessary for participating in learning activities throughout life and to engage in independent and life-long learning in the broadest context of socio-technological changes.

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**PROGRAMME SPECIFIC OUTCOME (PSO)**

<b>PSO No.</b>	<b>Program Outcomes</b> (B.Sc., Microbiology)
<b>PSO1</b>	Exposed to strong theoretical and practical background in fundamental concepts. Acquire expertise in the use and application of various methods in Microbial taxonomy, Genetic engineering, Lab Technology and Agriculture
<b>PSO2</b>	Provide learning opportunity to be reflective about their role as is researcher
<b>PSO3</b>	Plan independently and work on lab protocols involving emerging analytical techniques
<b>PSO4</b>	Create an environmentally and industrially important microbes with a specific emphasis on improving environmental sustainability and human health
<b>PSO5</b>	Apply knowledge to move ahead in entrepreneurship endeavors in Microbiology, Biotechnology and Genetic Engineering