

Progressive Education Society's
Modern College of Arts, Science and Commerce (Autonomous),
Shivajinagar, Pune – 411005

Department of Microbiology

Program Specific Outcomes (PSOs)

Program : B.Sc. Microbiology

After successful completion of B.Sc. Microbiology Program, the student will be able to:

PSO No.	Program Specific Outcomes
PSO1	Academic Expertise: <ol style="list-style-type: none">i. Develop an interest into various fields of Microbiology like Immunology, Genetics, Biochemistry, Medical, Industrial and Applied Microbiology.ii. Understood the basic concepts, fundamental principles, and the scientific theories related to various scientific phenomena and their relevance in day-to-day life.iii. Acquired the skills in handling scientific instruments, planning and performing in laboratory experiments.iv. Appreciate the biological diversity of microbial forms and be able to describe/explain the processes used by microorganisms for their replication, survival, and interaction with their environment, hosts, and host populations
PSO2	Inquisitive Learner <ol style="list-style-type: none">i. Students will become familiar with scientific methodology used for the execution of experiments. Students will develop the ability to think critically and to read and analyze scientific literature.ii. Students will develop proficiency in the quantitative skills necessary to analyze biological problems
PSO3	Social Competence: <ol style="list-style-type: none">i. Present the behavioral skills required for social adaptation.ii. Work as a responsible citizen with social awareness and will help the underprivileged people as per requirement and self ability.
PSO4	Effective Communication: <ol style="list-style-type: none">i. Developed various communication skills such as reading, listening, speaking, etc., which will help in expressing ideas and views clearly and effectively.ii. Students will develop strong oral and written communication skills through the effective presentation of experimental results as well as through seminars.
PSO5	Environmental Awareness: <ol style="list-style-type: none">i. Apply Knowledge like Bioremediation to solve environmental problems that will help to maintain the natural balance of the environment.ii. They will become aware of the important role microorganisms play in maintenance of a clean and healthy environment

	<ul style="list-style-type: none"> iii. Understand the importance of environmental protection with various acts and rights towards their protection made by the government.
PSO6	Digital Competence: <ul style="list-style-type: none"> i. Use modern IT tools and digital platforms at their study and workplace. ii. Present their work on a digital platform. iii. Get acquainted with MS Office for data representation.
PSO7	Experiential Learning: <ul style="list-style-type: none"> i. Develop approaches toward basic problem solving ii. Navigate and develop good laboratory practices with a regard to general safety
PSO8	Ethical and Moral Values: <ul style="list-style-type: none"> i. Values like Responsibility, Transparency, Responsiveness etc are inculcated. ii. Imbibe ethical, moral and social values in personal and social life leading to highly cultured and civilized personality.
PSO9	Stress Management : <ul style="list-style-type: none"> i. Develop the habit to submit work within deadlines. ii. Skill development courses like music help in managing stress and impact positively on the mental health of students.
PSO10	Extramural Skills: <ul style="list-style-type: none"> i. Opportunity to develop particular skills and exhibit their non-academic abilities by participating in various competitions. ii. Ability to work in a team.