

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

Department of Microbiology

Program Specific Outcomes (PSOs)

Program : M.Sc. Microbiology

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

PSO No.	Program Specific Outcomes
PSO1	Academic Expertise: <ul style="list-style-type: none">i. Understand advanced concepts of microbiology, biochemistry, virology and molecular biology among other areasii. Perform advanced techniques in these areasiii. iii. Interlink concepts belonging to different branches of life sciences as well as with physical and chemical sciences
PSO2	Inquisitive Learner <ul style="list-style-type: none">i. Think in a logical and conclusive mannerii. ii. Ask conceptual questions that will promote scientific inquiry
PSO3	Social Competence <ul style="list-style-type: none">i. Acquire the skill set and confidence to apply subject related concepts to day-to-day situationsii. ii. Engage in activities of human welfare
PSO4	Effective Communication <ul style="list-style-type: none">i. Effectively communicate concepts and research related to the field with peers through written and oral mediaii. ii. Disseminate new ideas through research to the scientific community
PSO5	Environmental Awareness <ul style="list-style-type: none">i. Internalize environmental issuesii. ii. Develop solutions to said environmental issues
PSO6	Digital Competence <ul style="list-style-type: none">i. Use of basic digital tools for communication of various scientific dataii. ii. Perform advanced bioinformatics for analysis of data
PSO7	Experiential Learning <ul style="list-style-type: none">i. Apply theoretical and practical knowledge to problem solvingii. ii. Understand the importance of scientific and work ethic

PSO8	Ethical and Moral Values <ul style="list-style-type: none"> i. Realise their ethical responsibilities towards society ii. Fulfill scientific and societal responsibilities respecting morals of humanity
PSO9	Teamwork and Interdisciplinary Studies <ul style="list-style-type: none"> i. Resolve differences in opinion ii. Work smoothly with peers from a variety of disciplines iii. Ameliorate self and community knowledge
PSO10	Research and Problem Solving Competence <ul style="list-style-type: none"> i. Hypothesize, plan, formulate and execute experiments that answer conceptual and application based problems ii. Validate numerical data by application of statistical tools iii. Troubleshoot potential inadequacies and errors in scientific data
PSO11	Stress Management <ul style="list-style-type: none"> i. Handle negative experimental results in a healthy and productive manner ii. Develop skills to deal with and overcome the pressures of deadlines
PSO12	Extramural Skills <ul style="list-style-type: none"> i. Appreciate the importance of skills acquired in arts, music and sports in scientific application ii. Develop confidence in public speaking and other communication skills.