

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

Department of Physics

Program Specific Outcomes (PSOs)

Program: M. Sc. Physics

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

PSO No.	Program Outcomes
PSO1	Academic Expertise: <ul style="list-style-type: none">i understand fundamentals laws of physics from various topics in Classical and Modern Physicsii understand the working of various instruments used in physics laboratories and develop skills to operate themiii understand the importance of mathematics as a tool in presenting theories of physicsiv design experiments to test hypothesis
PSO2	Inquisitive learner : <ul style="list-style-type: none">i understand physics behind phenomena observed in day-to-day life
PSO3	Social competence: <ul style="list-style-type: none">i work in team to complete a scientific project starting with literature and resources' survey and concluding with preparation of the report
PSO4	Effective Communication: <ul style="list-style-type: none">i present concepts in physics to a gathering of people and answer related questions posed by the audience during the presentation
PSO5	Environmental awareness: <ul style="list-style-type: none">i. understand various concepts and techniques to harvest solar energy as a non-conventional energy source
PSO6	Digital competence: <ul style="list-style-type: none">i use office tools like spreadsheet and document editors for preparing scientific reports and plotting graphs to represent data effectivelyii develop computer programs to solve physics problems 3. understand software like MATLAB and Python in data analysis

PSO7	Experiential Learning: <ul style="list-style-type: none"> i 1. undertake and complete research projects 2. Solve advanced level physics problems
PSO8	Ethical values: <ul style="list-style-type: none"> i acknowledge scientific work of others and assign appropriate credit through citations while referring to existing scientific work ii develop awareness about cyber laws and issues with cyber security
PSO9	Team work and Interdisciplinary Studies :
PSO10	Research and Problem Solving Competence:
PSO11	Stress management: <ul style="list-style-type: none"> i 1. understand and appreciate endeavors of physics community for understanding the working of the nature
PSO12	Extramural Skills: <ul style="list-style-type: none"> i develop skills to manage multiple tasks simultaneously ii manage available resources including time to complete a task in reasonable timeframe