



PDEU

PANDIT DEENDAYAL ENERGY UNIVERSITY

Formerly Pandit Deendayal Petroleum University (PDPU)

M.Sc. Mathematics Program Outcomes (POs)

PO 1	Science knowledge	Apply mathematics knowledge and mathematics specialties to the solution of challenging scientific issues.
PO 2	Problem Analysis	Analyze and understand the theoretical and practical data at various workplaces.
PO 3	Design/ Development of solutions	Design a system, component, or process to meet the desired needs within realistic constraints such as economic, environmental, health and safety, and sustainability.
PO 4	Conduct investigations of complex problems	Develop the capacity to analyze complicated issues and offer workable answers by applying applied research knowledge.
PO 5	Modern tool usage	Identifying, formulating, and resolving scientific issues with contemporary methods and technologies.
PO 6	Mathematics and Society	Obtain the wide education required to comprehend how scientific solutions impact the local, national, international, economic, environmental, and societal contexts.
PO 7	Environment and Sustainability	Understand the environmental damage and develop environmental friendly and sustainable scientific practices using the solutions in the societal and environmental context.
PO 8	Ethics	Develop an ethical-moral value system and cater to the community needs in a voluntary manner by the judicious use of scientific principles
PO 9	Multidisciplinary Approach	Develop a multidisciplinary approach and function on multidisciplinary teams.
PO 10	Communication	Develop various communication skills such as listening, speaking, writing, etc. which will help in the effective expression of ideas and views.
PO 11	Project Management and Finance	Apply scientific knowledge and management skills to manage projects in industries, research and development institutions, public sector units, higher education and in academia.
PO 12	Life-long Learning	Demonstrate effective usage of existing resources at workplaces and raise awareness of the importance of life-long learning



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M.Sc. Mathematics Program Specific Outcomes (PSOs)

PSO 1	Understand the mathematical concepts and explore a variety of applications having interdisciplinary dimensions. Build both analytical as well as innovative approach in solving problems of mathematical sciences.
PSO 2	Apply, analyze, and interpret basic and advanced computational laboratory concepts to develop necessary computing skills in scientific community.
PSO 3	Earn research experience within a specific field of mathematical sciences, through a supervised project to enhance the ability of the students in successfully carrying out multidisciplinary projects, in collaboration with other departments.

M.Sc. Mathematics Program Educational Objectives (PEOs)

PEO 1	Develop students with sound mathematical knowledge and technical skills to identify, analyze and solve real-world problems.
PEO 2	Prepare students with strong foundation in all areas of mathematics for successful careers in research and innovation in various fields including academia, industries, etc.
PEO 3	Integrate comprehensive knowledge, teamwork, leadership qualities, teaching and communication skills for lifelong learning.
PEO 4	Provide students with guidance, practical training and hands-on project experience to meet the employment needs.