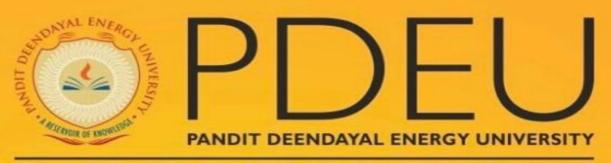


SCHOOL OF TECHNOLOGY





Formerly Pandit Deendayal Petroleum University (PDPU)

B.Sc. (HONS.)

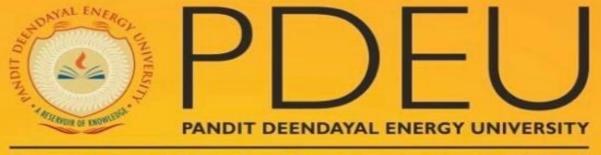
Program Outcomes		
PO 1	Science knowledge	Apply the knowledge of Physics, Chemistry and Mathematics in solving/analyzing problems in industries, research and development institutions, public sector units, higher education and in academia.
PO 2	Problem Analysis	Analyze and interpret theoretical and practical 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, manufacturability, and sustainability.
PO 4	Investigations of complex problem	Develop the ability to apply the knowledge of applied research to investigate complex problems and provide viable solutions.
PO 5	Modern tool usage	Identify, formulate, and solve scientific problems using modern tools and techniques.
PO 6	Science and Society	Acquire the broad education necessary to understand the impact of scientific solutions in a local, global, economic, environmental, and societal context
PO 7	Environment and Sustainability	Assess environmental damage and develop environment friendly and sustainable scientific practices
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 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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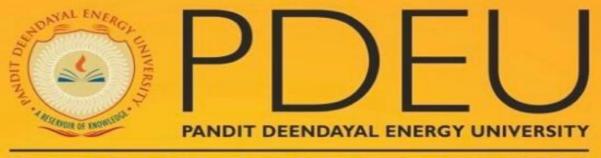
B.Sc. (HONS.) Mathematics Program Specific Outcomes (PSOs)

PSO 1	Develop a basic understanding of fundamental concepts of Physics, Chemistry and Mathematics to solve the problems having interdisciplinary dimensions. Build both analytical as well as innovative approach in solving problems of mathematical sciences
PSO 2	Develop concepts and understanding of various fields in mathematical sciences in addition to a basket of electives in humanities, social sciences etc. 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.









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B.Sc. (HONS.) Mathematics Program Educational Objectives (PEOs)

Program Educational Objectives (PEOS)		
PEO 1	Develop core competent graduates with sound mathematical knowledge and technical skills to identify, analyze and solve real-world problems.	
PEO 2	Prepare students to pursue higher studies and conduct research in various fields including academia, industries, etc.	
PEO 3	Integrate comprehensive knowledge, team work, 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.	