



Manipal University Jaipur
Faculty of Science, Technology and Architecture
Department Mathematics and Statistics

M.Sc. Mathematics
(AY 2011 onwards)

Program Outcomes, Program Specific Outcomes and Program Educational Objectives

Program Outcomes (POs)

- [PO 1]. **Critical Thinking:** Take informed actions after identifying the assumptions that frame our thinking and actions, checking out the degree to which these assumptions are accurate and valid, and looking at our ideas and decisions (intellectual, organizational and personal) from different perspectives.
- [PO 2]. **Effective Communication:** Speak, read, write and listen clearly in person and through electronic media in English and in one Indian language, and make meaning of the world by connecting people, ideas, books, media and technology.
- [PO 3]. **Social Interaction:** Elicit views of others, mediate disagreements and help reach conclusions in group settings.
- [PO 4]. **Effective Citizenship:** Demonstrate empathetic social concern and equity centred national development, and the ability to act with an informed awareness of issues and participate in civic life through volunteering.
- [PO 5]. **Ethics:** Recognize different value systems including your own, understand the moral dimensions of your decisions, and accept responsibility for them.
- [PO 6]. **Environment and Sustainability:** Understand the issues of environmental contexts and sustainable development.
- [PO 7]. **Self-directed and Life-long Learning:** Acquire the ability to engage in independent and life-long learning in the broadest context socio-technological changes.

Program Specific Outcomes (PSOs)

- [PSO 1]. Describe the basic and advanced Mathematical concepts of Pure and Applied Mathematics.
- [PSO 2]. Apply the Mathematical principles to analyze and solve a variety of real-life as well as industry problems.
- [PSO 3]. To have necessary skills for the research and developments in theoretical and applied science through seminar, project, and publication.

Program Educational Objectives (PEOs)

- [PEO 1]. Get the significant prospects to provide their services at various field of banking, consultancy, government jobs, defence, teaching & research of National and International repute.
- [PEO 2]. Have the motivation for being a successful entrepreneur and expertise for research studies in mathematics and its related fields.
- [PEO 3]. Have proficiency to implement their analytical skills to formulate, analyse & solve the mathematical models, based on various societal problems.
- [PEO 4]. Achieve the identification as an individual leader or a team member by contributing through their critical thinking and logical competence with human values and professional ethics.

Head of Department
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