



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

M.Sc. Mathematics and Computing
(AY 2026 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]. Apply advanced mathematical and computational techniques to model, analyze, and solve complex real-world problems.
- [PSO 2]. Develop and implement algorithms, numerical methods, and data-driven solutions using modern computing tools and technologies.
- [PSO 3]. Pursue higher studies, research, or professional careers in mathematics, computing, and allied areas.

Program Educational Objectives (PEOs)

- [PEO 1]. Pursue advanced studies, research, and innovation in mathematics, computing, and interdisciplinary domains.
- [PEO 2]. Build successful professional careers in industry, academia, research institutions, and government organizations.
- [PEO 3]. Engage in interdisciplinary research, consultancy, and collaborative projects with academic institutions and public/private sectors.

Head of Department
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