



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

B.Sc. (Honours) Mathematics

(AY2025/2028)

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]. To understand the basic Mathematical & Statistical principles and to explain them clearly.
- [PSO 2]. To apply these principles both in simple exercises and in more complex problems of advanced Mathematics & Statistics
- [PSO 3]. To develop creative thinking and the power of imagination.
- [PSO 4]. To expose the graduates in research in academia and industry for broader applications

Program Educational Objectives (PEOs)

- [PEO 1]. To make them capable to formulate and compute the mathematical models of real-life issues.
- [PEO 2]. To develop the logical, analytical and scientific aptitude to strengthen their contribution as a team member or a leader.
- [PEO 3]. To prepare the students for their successful career at national & international platforms as analyst, scientist, operational research managers and mathematical professional in various organizations.
- [PEO 4]. To provide the leadership and lifelong learning qualities required for a successful professional career along with ethical attitude and teamwork skills.

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