



Manipal University Jaipur
Faculty of Science, Technology and Architecture
School of Physical and Biological Sciences

Department of Physics
Master of Science (Physics)

(AY 2026/27 onwards)

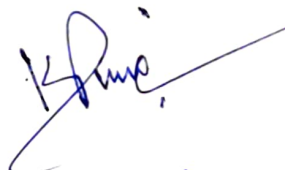
Program Outcomes and Program Specific Outcomes

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-centered 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, and 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 of socio-technological changes

Program Specific Outcomes (PSOs)

- [PSO 1]. Apply theoretical knowledge of principles and concepts of Physics to practical problems of daily life. Design and execute laboratory experiments and simulations and interpret results using accepted scientific practices.
- [PSO 2]. Demonstrate the ability to plan, undertake, and report on a programme of original work; including the planning and execution of experiments, the analysis and interpretation of experimental results. Engage in independent and collaborative research activities, contributing to systematic knowledge development.
- [PSO 3]. Assess the errors involved in an experimental work and make recommendations based on the results in an effective manner.


Head
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