

Manipal University Jaipur
Faculty of Science, Technology and Architecture (FoSTA)
School of Physical and Biological Sciences (SoPBS)

B.Sc. (Honours / Honours with Research) in Physics and B.Sc. in Physics
(AY 2026/27 onwards)

Program Outcomes, Program Specific Outcomes and Program Educational 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 the principles of Physics both in simple exercises and in more complex problems of advanced Physics to cater to national and international laboratories.
- [PSO 2]. Develop creative thinking and the power of imagination to hypothesize solutions to new problems of Physics
- [PSO 3]. Expose the graduates in research in academia and industry for knowledge creation and its applications for a better tomorrow.

Program Educational Outcomes (PEOs)

- [PEO 1]. The graduates will understand Physics principles by learning, explaining and interpreting various natural laws governing the universe.
- [PEO 2]. The graduates will acquire and strengthen key Physics concepts, laws, and theories and then apply this foundational knowledge to solve problems in both academic and real-world contexts
- [PEO 3]. The graduates will utilize their understanding of Physics to address real-world challenges through lab scale experimentation and modeling, showcasing their ability to apply theoretical understanding in practical domains.



Head
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