



Manipal University Jaipur

Faculty of Science, Technology and Architecture

School of Physical and Biological Sciences

Bachelor of Science (Honours with Research)-Physics/Chemistry/Mathematics (Dual degree program (2+2) in collaboration with University of Melbourne, Australia)

(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 core principles of allied sciences to analyze, model, and solve scientific problems using theoretical, experimental, and computational methods.
- [PSO 2]. Design and execute laboratory experiments and simulations and interpret results using accepted scientific practices.
- [PSO 3]. Demonstrate effective scientific communication skills, suitable for national and international academic settings.
- [PSO 4]. Engage in independent and collaborative research activities, contributing to systematic knowledge development.
- [PSO 5]. Exhibit professional ethics, adaptability, and lifelong learning abilities required for global careers in science, research, and technology-oriented environments.