



Manipal University Jaipur

Faculty of Science, Technology, and Architecture (FoSTA)

Department of Chemistry

B.Sc. (Hons.) in Chemistry

(AY 2025 onwards)

Program Outcomes, Program Specific Outcomes & 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 physics principles and apply these principles both in simple exercises and in more complex problems of advanced Physics.
- [PSO 2]. To Understand and apply the fundamental concepts of Chemical Sciences, employ critical thinking and scientific queries at a suitable level to get success in Professional domain and / or Higher Studies.
- [PSO 3]. To understand the Mathematical applications in science & Technology

Program Educational Objectives (PEOs)

- [PSO 1]. Professional Competence and Research Aptitude: Graduates will apply chemistry principles and research skills to pursue advanced studies or careers in industry, contributing to innovative scientific solutions.
- [PSO 2]. Industry and Ethical Engagement: Graduates will integrate chemistry knowledge with industry practices, addressing real-world challenges ethically and sustainably.
- [PSO 3]. Lifelong Learning and Leadership: Graduates will pursue lifelong learning, adapt to scientific advancements, and exhibit leadership in professional and collaborative environments.