



Manipal University Jaipur

Faculty of Science, Technology, and Architecture (FoSTA)

Department of Chemistry

M.Sc. (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]. Develop knowledge, understanding and expertise in their chosen field of chemical science.
- [PSO 2]. Develop an understanding of eco-friendly chemical processes and impact of chemistry on health and environment.
- [PSO 3]. Understand theoretical concepts of instruments that are commonly used in most chemistry fields as well as interpret and use data generated in instrumental chemical analyses.
- [PSO 4]. Provide opportunities to excel in academics, research, or Industry.

Program Educational Objectives (PEOs)

- [PSO 1]. Graduates will possess advanced chemical science knowledge for success in research, industry, or further studies.
- [PSO 2]. Graduates will apply eco-friendly practices and understand chemistry's impact on health and the environment.
- [PSO 3]. Graduates will demonstrate effective communication, critical thinking, and lifelong learning skills for professional and societal contributions.