



Manipal University Jaipur
Faculty of Science, Technology, and Architecture
Department of Information Technology

B.Tech
(2023-2027)

Program Outcomes, Program Specific Outcomes & Program Educational Objectives

Program Outcomes (POs)

- [PO 1]. Engineering knowledge: Apply the knowledge of mathematics, science, engineering fundamentals, and an engineering specialization to the solution of complex engineering problems.
- [PO 2]. Problem analysis: Identify, formulate, research literature, and analyze complex engineering problems reaching substantiated conclusions using first principles of mathematics, natural sciences, and engineering sciences.
- [PO 3]. Design/development of solutions: Design solutions for complex engineering problems and design system components or processes that meet the specified needs with appropriate consideration for the public health and safety, and the cultural, societal, and environmental considerations.
- [PO 4]. Conduct investigations of complex problems: Use research-based knowledge and research methods including design of experiments, analysis and interpretation of data, and synthesis of the information to provide valid conclusions.
- [PO 5]. Modern tool usage: Create, select, and apply appropriate techniques, resources, and modern engineering and IT tools including prediction and modelling to complex engineering activities with an understanding of the limitations.
- [PO 6]. The engineer and society: Apply reasoning informed by the contextual knowledge to assess societal, health, safety, legal, and cultural issues and the consequent responsibilities relevant to the professional engineering practice.
- [PO 7]. Environment and sustainability: Understand the impact of the professional engineering solutions in societal and environmental contexts, and demonstrate the knowledge of, and need for sustainable development.
- [PO 8]. Ethics: Apply ethical principles and commit to professional ethics and responsibilities and norms of the engineering practices.
- [PO 9]. Individual and team work: Function effectively as an individual, and as a member or leader in diverse teams, and in multidisciplinary settings.
- [PO 10]. Communication: Communicate effectively on complex engineering activities with the engineering community and with society at large, such as, being able to comprehend and write effective reports and design documentation, make effective presentations, and give and receive clear instructions.
- [PO 11]. Project management and finance: Demonstrate knowledge and understanding of the engineering and management principles and apply these to one's own work, as a member and leader in a team, to manage projects and in multidisciplinary environments.
- [PO 12]. Life-long learning: Recognize the need for, and have the preparation and ability to engage in independent and life-long learning in the broadest context of technological change.

Program Specific Outcomes (PSOs)

- [PSO 1]. To apply innovative and creative techniques to design, simulate, implement complex IT solutions while leveraging- existing and cutting-edge technologies.
- [PSO 2]. To succeed to achieve inspiring IT oriented Jobs and competitive examinations that offer promising and satisfying careers.
- [PSO 3]. To recognize the importance of professional developments by pursuing postgraduate studies and positions.

Program Educational Objectives (PEOs)



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1. Confidently demonstrate the required logical and technical problem-solving skills and technical competence to work in the field of IT and IT enabled services.
2. Design and implement working solutions for a wide range of real-life problems within the constraints.
3. Pursue higher studies and grow in the direction of research and development while demonstrating remarkable professionalism.
4. Exhibit leadership skills while being sensitive to social responsibilities.