DELHI TECHNOLOGICAL UNIVERSITY
(Formerly Delhi College of Engineering)
Shahabad Daulatpur, Bawana Road, Delhi-110042

Department of Computer Science and Engineering

Program Educational Objectives (PEOs)

PEO 1: To acquire in-depth knowledge of software and hardware techniques, which provide a strong foundation to pursue continuing education and nurture the talent for innovation and research.

PEO 2: To nurture the talent in leadership qualities, at an appropriate level in order to address the issues in a responsive, ethical and innovative manner.

PEO 3: To excel in careers by being a part of success and growth of an organization with whom they will be associated.

PEO 4: To inculcate the ability for lifelong learning by active participation in self-study courses, seminars, research projects.

Course Outcomes

B.Tech (CSE)- Click here

Program Outcomes

B.Tech (CSE)

PO1: Engineering Knowledge:
Apply the knowledge of mathematics, science, engineering fundamentals, and an engineering specialization to the solution of complex engineering problems.

PO2: Problem Analysis:
Identify, formulate, review research literature, and analyze complex engineering problems reaching substantiated conclusions using first principles of mathematics, natural sciences, and engineering sciences.

PO3: 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 public health and safety, as well as cultural, societal, and environmental considerations.

PO4: Conduct Investigations of Complex Problems:
Use research-based knowledge and research methods, including the design of experiments, analysis and interpretation of data, and synthesis of information, to provide valid conclusions.

PO5: Modern Tool Usage:
Create, select, and apply appropriate techniques, resources, and modern engineering and IT tools, including prediction and modeling, to complex engineering activities, with an understanding of their limitations.

PO6: The Engineer and Society:
Apply reasoning informed by contextual knowledge to assess societal, health, safety, legal, and cultural issues and the consequent responsibilities relevant to professional engineering practice.

PO7: Environment and Sustainability:
Understand the impact of professional engineering solutions in societal and environmental contexts and demonstrate knowledge of and the need for sustainable development.

PO8: Ethics:
Apply ethical principles and commit to professional ethics, responsibilities, and norms of engineering practice.

PO9: Individual and Team Work:
Function effectively as an individual, as well as a member or leader in diverse teams and multidisciplinary settings.

PO10: Communication:
Communicate effectively on complex engineering activities with the engineering community and society at large. This includes the ability to comprehend and write effective reports and design documentation, make effective presentations, and give and receive clear instructions.

PO11: Project Management and Finance:
Demonstrate knowledge and understanding of engineering and management principles and apply these to one's own work, as a member and leader in a team, to manage projects in multidisciplinary environments.

PO12: Life-long Learning:
Recognize the need for and develop the ability to engage in independent and life-long learning in the broadest context of technological change.

Program Specific Outcomes (PSOs)

M.Tech (CSE)

PSO Number	Program Specific Outcome (PSO)	Bloom's Level
PSO1	Apply core concepts of Computer Science and Engineering, including algorithms, computational thinking, and system design, to develop efficient and scalable solutions.	Apply (L3)
PSO2	Analyze, conceptualize, and design complex software systems using advanced problem-solving techniques and modern computing tools.	Analyze (L4)
PSO3	Conduct high-quality research by identifying challenges in emerging computing domains, formulating innovative solutions, and contributing to technological advancements.	Create (L6)

M.Tech (AI)

PSO Number	Program Specific Outcome (PSO)	Bloom's Level
PSO1	Apply AI techniques, including machine learning, deep learning, and data-driven problem-solving strategies, to address real-world challenges in diverse domains.	Apply (L3)
PSO2	Analyze and design AI-based models and intelligent systems for innovative and optimized solutions.	Analyze (L4)
PSO3	Conduct advanced AI research and foster entrepreneurship by developing cutting-edge technologies with ethical considerations.	Create (L6)

M.Tech (by Research)

PSO Number	Program Specific Outcome (PSO)	Bloom's Level
PSO1	Apply advanced computing concepts, algorithms, and system design methodologies to develop scalable and efficient solutions for complex real-world problems.	Apply (L3)
PSO2	Conduct original research by identifying gaps, formulating hypotheses, and applying theoretical and experimental approaches to advance knowledge in Computer Science.	Evaluate (L5)
PSO3	Integrate emerging technologies such as AI, Machine Learning, Computer Vision, and Cybersecurity to solve challenging computational problems and drive innovation.	Create (L6)