

B.Tech. Computer Science & Engineering

Programme Educational Objectives (PEOs)

PEO 1	Graduates will establish successful professional careers by applying strong foundations in mathematics, computing, programming, and engineering principles to solve real-world problems.
PEO 2	Graduates will demonstrate research aptitude, innovation, analytical thinking, and design capability to create and develop technology-driven solutions that address societal, industrial, regional, national, and global Challenges.
PEO 3	Graduates will pursue successful careers in higher education , research, entrepreneurship or public service through ethical practices, leadership, effective communication, and lifelong learning.

Programme Outcomes (POs)

PO1	Engineering Knowledge: Apply mathematics, science, and engineering fundamentals to solve complex problems.
PO2	Problem Analysis: Analyze complex problems using research literature to reach substantiated conclusions.
PO3	Design/Development of Solutions: Design solutions for complex problems, considering public health, safety, and sustainability.
PO4	Conduct Investigations: Conduct investigations of complex problems, including, experiments, data analysis, and interpretation.
PO5	Engineering Tool Usage: Apply appropriate techniques and modern engineering/IT tools to complex activities.
PO6	The Engineer and the World: Evaluate the impact of professional engineering work on health, society, safety, and the environment.
PO7	Ethics: Apply ethical principles, professional responsibilities, and norms of engineering practice.
PO8	Individual and Team Work: Function effectively as an individual, and as a member or leader in diverse, multi-disciplinary teams.
PO9	Communication: Communicate effectively on complex engineering activities with the engineering community and society.
PO10	Project Management and Finance: Apply engineering management principles and economic decision-making to one's own work.
PO11	Life-Long Learning: Engage in independent and life-long learning in the context of technological change.

Programme Specific Outcomes (PSOs)

PSO1	Graduates will design, develop, test, and maintain software applications using core computer science concepts.
PSO2	Graduates will apply modern tools and emerging technologies such as AI, data science, cloud computing, cybersecurity, and IoT to solve problems.
PSO3	Graduates will be able to analyze complex computing problems and develop scalable, secure, ethical, and socially relevant solutions for applications in industry, research, entrepreneurship, and community development.