

**SCHOOL OF ENGINEERING AND TECHNOLOGY
SRI PADMAVATI MAHILA VISVAVIDYALAYAM, TIRUPATI
(WOMEN'S UNIVERSITY)**

DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING

PROGRAM EDUCATIONAL OBJECTIVES – B.Tech(CSE)

PEO1: Develop necessary skills in mathematics, basic sciences, engineering, and software related concepts to develop efficient solutions to real life problems that are economically feasible and socially acceptable.

PEO2: Impart training in soft skills including team building skills and communication skills

PEO3: Prepare students to excel with professional competence, managerial skills and ethical values to satisfy critical societal needs.

PEO4: Prepare and encourage students to pursue higher education and research.

PEO5: Inculcate the spirit of innovation, and entrepreneurship among the students.

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PROGRAM OUTCOMES - B.TECH (CSE)

Engineering Graduates will be able to:

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 the public health and safety, and the cultural, societal, and environmental considerations.

PO4: 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.

PO5: 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.

PO6: 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.

PO7: 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.

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

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

PO10: 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.

PO11: 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.

PO12: 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.

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PROGRAM SPECIFIC OUTCOMES – B.Tech(CSE)

PSO 1: Apply the fundamentals of mathematics, computer science and engineering knowledge to understand, analyze and develop efficient design of computer based systems of varying complexity to meet the needs of industry and society.

PSO 2: Apply appropriate modern computer based techniques and tools for the design and integration of computer system and related technologies to engage in lifelong learning for the advancement of technology

PSO 3: Ability to use knowledge in various domains of computer science and engineering to identify research gaps and hence to provide solution to new ideas and innovations.

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Department of Computer Science and Engineering**

B.TECH (CSE)

H – HIGH

M – MODERATE

L – LOW

**1. PROGRAM EDUCATIONAL OBJECTIVES (PEOs) – PROGRAM OUTCOMES (POs)
MAPPING**

	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
PEO1	H	H	H	M	M	L	L	-	M	L	L	-
PEO2	-	-	-	-	-	-	-	L	H	H	-	-
PEO3	H	-	M	L	M	H	M	H	L	-	-	-
PEO4	H	H	H	H	M	M	M	H	H	M	M	H
PEO5	H	H	M	H	L	H	L	H	M	M	M	H

**2. PROGRAM EDUCATIONAL OBJECTIVES (PEOs) – PROGRAM SPECIFIC
OUTCOMES (PSOs) MAPPING**

	PSO1	PSO2	PSO3
PEO1	H	H	L
PEO2	H	L	L
PEO3	L	H	M
PEO4	L	L	H
PEO5	M	L	H

**3. PROGRAM EDUCATIONAL OBJECTIVES (PEOs) – MISSION STATEMENTS
MAPPING**

	M1	M2	M3	M4
PEO1	M	H	-	-
PEO2	L	-	H	-
PEO3	M	-	-	H
PEO4	H	M	-	-
PEO5	M	-	-	H