

**SCHOOL OF ENGINEERING AND TECHNOLOGY  
SRI PADMAVATHI MAHILA VISVAVISYALAYAM  
DEPARTMENT OF ELECTRICAL AND ELECTRONICS ENGINEERING**

**PROGRAMME EDUCATIONAL OBJECTIVES (PEOS) – B.Tech(EEE)**

**PEO-1:** Provide students with the knowledge of Mathematical, physical and social sciences, principles of Engineering and Computing.

**PEO-2:** Develop necessary skills to analyze and synthesize electrical circuits, algorithms and complex power and control systems so as to provide economically feasible and socially acceptable solutions to real life technical problems.

**PEO-3:** Prepare students to excel with professional competence, administrative acumen and ethical values to handle critical societal needs.

**PEO-4:** Prepare and encourage students to pursue higher education and research for life-long learning.

**PEO-5:** Inculcate the spirit of innovation, incubation, and entrepreneurship among the students.

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**PROGRAMME OUTCOMES – B.Tech(EEE)**

- 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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**PROGRAMME SPECIFIC OUTCOMES (PSOS) – B.Tech(EEE)**

**PSO 1:** An ability to specify, design and analyze systems that efficiently generate, transmit, distribute and utilize electrical power.

**PSO 2:** An ability to analyze and design electrical machinery and drives, control and automation applications, embedded systems and signal processing using the state-of-the-art equipment, instrumentation and software tools.

**PSO 3:** Acquire the necessary skills and ethical values to face the challenges of research and industry.

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**SRI PADMAVATI MAHILA VISVAVIDYALAYAM, TIRUPATI**  
**(WOMEN'S UNIVERSITY)**

**DEPARTMENT OF ELECTRICAL AND ELECTRONICS ENGINEERING**  
**(B.Tech)**

**H-HIGH**

**M-MEDIUM**

**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	M	-	L	-	M	-	M	-	M	L	H
PEO2	L	H	H	H	H	L	-	M	-	-	M	M
PEO3	-	-	-	-	-	M	M	H	H	M	H	M
PEO4	M	-	-	-	-	-	-	M	M	H	-	H
PEO5	M	-	-	M	-	-	L	M	M	M	H	M

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

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

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

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