



JAI SHRIRAM ENGINEERING COLLEGE

TIRUPPUR – 638 660

Approved by AICTE, New Delhi & Affiliated to Anna University, Chennai

Recognized by UGC & Accredited by NAAC and NBA (CSE and ECE)



DEPARTMENT OF ELECTRICAL AND ELECTRONICS ENGINEERING

DEPARTMENT VISION

To impart skills in Electrical Engineering and to prepare the students ethically strong enough to meet the technical challenges for the well being of Nation.

DEPARTMENT MISSION

- To equip the students to meet the industrial requirements and mould them into successful professional.
- To perform research and development in emerging fields of Electrical Engineering.
- To enrich the knowledge and skills of the students towards the employment and benefit of society.

PROGRAM EDUCATIONAL OBJECTIVES (PEO)

After 3 to 5 years of graduation, our graduates will be able to:

- To utilize the knowledge of Engineering, Creative and Analytical skills in Electrical and Electronics fields towards successful employment.
- To work in multidisciplinary environment through lifelong learning skills that contributes to Personal and Organizational growth.
- To develop a system, component or process to meet the needs of society and industry requirements.



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PROGRAM OUTCOMES (PO)

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 modeling 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 (PSO)

The Graduates will be able to:

PSO1: Apply the fundamental knowledge and modern tools to design, formulate and investigate various problems of electrical, electronics and their interdisciplinary areas.

PSO2: To inculcate in lifelong learning in Electrical and automation applications to enhance living standards of society.