



SCIENT INSTITUTE OF TECHNOLOGY

Ibrahimpatnam. R.R Dist - 501506

(Approved by AICTE & Affiliated to JNTUH, Hyderabad)

ELECTRICAL AND ELECTRONICS ENGINEERING

PROGRAM EDUCATIONAL OBJECTIVES(PEOs)

The graduate of Electrical & electronics Engineering will be:

PEO 1	Possess strong educational footing in Science, Mathematics and Electrical Engineering which is essential in making successful careers in Higher Education/Research/ Industry and will understand the professional responsibility in modern Electrical Power and Energy related Industry through global requirements
PEO 2	To train the students such a manner that they should function effectively in the multicultural and multidisciplinary groups in their practice of Electrical Engineering profession
PEO 3	Possess solid foundation in Electrical and electronics Engineering along with effective communication in management, teamwork and entrepreneurship skills for tackling social issues



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PROGRAM OUTCOMES(POs)	
PO 1	Engineering knowledge: Apply the knowledge of Mathematics, Science, Engineering fundamentals, and an Engineering specialization to the solution of complex Engineering problems.
PO 2	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
PO 3	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.
PO 4	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.
PO 5	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
PO 6	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.



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PO 7	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.
PO 8	Ethics: Apply ethical principles and commit to professional ethics and responsibilities and norms of the engineering practice.
PO 9	Individual and team work: Function effectively as an individual, and as a member or leader in diverse teams, and in multidisciplinary settings.
PO 10	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.
PO 11	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.
PO 12	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(PSOs)

PSO 1	Incorporating fundamental concepts of mathematics and science to identify, formulate, design and analyze various issues of renewable energy systems by providing developments in the areas of power electronics, power systems, electromechanical and control aspects
PSO 2	Motivate for continuous self learning in engineering practice and pursue research in advanced areas of Electrical Engineering in order to offer engineering services to the Nation.
PSO 3	Demonstrate proficiency in use of modern software tools for design, simulation and analysis of electrical systems to adapt in multidisciplinary environments