



# ADITYA ENGINEERING COLLEGE

An Autonomous Institution

Approved by AICTE • Permanently Affiliated to JNTUK • Accredited by NAAC with 'A' Grade

Recognised by UGC under sections 2(f) and 12(B) of UGC Act, 1956

Aditya Nagar, ADB Road, Surampalem - 533437, Near Kakinada, E.G.Dt., Ph:99498 76662

## Programme :Electrical and Electronics Engineering

### Vision & Mission

### Vision

### Mission

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**SURAMPALEM - 533 437**



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## Program Outcomes (POs)

PO 1:  
Apply knowledge of mathematics, science, engineering fundamentals and an engineering specialization to the solution of complex engineering problems.

PO 2:  
Identify, formulate, research literature and analyze complex engineering problems, reaching substantiated conclusions using first principles of mathematics, natural sciences and engineering sciences.

PO 3:  
Design solutions for complex engineering problems and design systems, components or processes that meet specified needs with appropriate consideration for public health and safety, cultural, societal, and environmental considerations.

PO 4:  
Conduct investigations of complex problems using research-based knowledge and research methods including design of experiments, analysis and interpretation of data, and synthesis of information to provide valid conclusions.

PO 5:  
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

PO 6:  
Apply reasoning informed by contextual knowledge to assess societal, health, safety, legal and cultural issues and the consequent responsibilities relevant to professional engineering practice.

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PO 7:  
Understand the impact of professional engineering solutions in societal and environmental contexts and demonstrate knowledge of, and need for sustainable development.

PO 8:  
Apply ethical principles and commit to professional ethics and responsibilities and norms of engineering practice.

PO 9:  
Function effectively as an individual, and as a member or leader in diverse teams and in multidisciplinary settings

PO 10:  
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:  
Demonstrate knowledge and understanding of engineering management principles and apply these to one's own work, as a member and leader in a team and to manage projects in multidisciplinary environments.

PO 12:  
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)

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We are the power of the World  
**ELECTRICAL ENGINEERING**

Department of Electrical and Electronics Engineering

**PROGRAM SPECIFIC OUTCOMES**

PSO 1:  
Apply computational techniques to design and analyze renewable energy systems.

PSO 2:  
Analyze the advanced topics in electrical engineering for the innovation and development of sustainable society.

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## Program Educational Objectives (PEOs)

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We are the power of the World  
**ELECTRICAL ENGINEERING**

Department of Electrical and Electronics Engineering

**PROGRAM EDUCATIONAL OBJECTIVES**

PEO 1:  
Create multidisciplinary projects as an individual or as a team member.

PEO 2:  
Design and develop innovative products and services in the field of Electrical and Electronics engineering.

PEO 3:  
Engage in lifelong learning, career enhancement and adopt to changing professional and societal needs.

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