



# 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 : Electronics and Communication Engineering

### Vision & Mission

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No Resistance can Drop our Potential  
**ELECTRONICS & COMMUNICATION ENGINEERING**

Department of Electronics & Communication Engineering

**Our Vision**

To become a centre of excellence in Electronics and Communication Engineering with technological capability, professional commitment and social responsibility

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### Vision

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**ELECTRONICS & COMMUNICATION ENGINEERING**

Department of Electronics & Communication Engineering

**Our Mission**

**M1:**  
Provide quality education through well-equipped laboratory facilities in collaboration with the industries and effective teaching-learning process

**M2:**  
Promote cutting edge technologies in order to serve the needs of the society, industry, government and scientific community through research

**M3:**  
Equip the students with strong foundations in personality development and communication skills towards employability

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### Mission

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## Program Outcomes (POs)

Department of Electronics & Communication Engineering

**PROGRAM OUTCOMES**

**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.

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**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.

**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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Department of Electronics & Communication Engineering

**PROGRAM SPECIFIC OUTCOMES**

**PSO 1:**  
Apply the knowledge of Electronics and Communications in analysing problems related to Electronics, Communications, Signal processing, VLSI and Embedded systems

**PSO 2:**  
Use modern tools and techniques to solve contemporary problems in the field of Electronics and Communication Engineering

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## Program Educational Objectives (PEOs)

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Department of Electronics & Communication Engineering

**PROGRAM EDUCATIONAL OBJECTIVES**

**PEO 1:**  
Adapt the learning culture needed for a successful professional career to pursue research in line with the latest technological developments

**PEO 2:**  
Design and develop modern electronic and communication Systems for the given requirements by considering technical, environmental and social contexts

**PEO 3:**  
Communicate effectively, demonstrate leadership qualities and develop knowledge of societal impacts of communication technologies with professional ethics

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