



# SCIENT INSTITUTE OF TECHNOLOGY

Ibrahimpatnam. R.R Dist - 501506

(Approved by AICTE & Affiliated to JNTUH, Hyderabad)

## ELECTRONICS AND COMMUNICATION ENGINEERING

### PROGRAM EDUCATIONAL OBJECTIVES(PEOs)

<b>PEO1</b>	To impart value based education and enable them to practice profession with ethics and essence of social responsibility
<b>PEO2</b>	To provide comprehensive learning of Electronics and Communication Engineering for professional excellence and innovation
<b>PEO3</b>	To inculcate the design and development in multidisciplinary innovative system through research.

### PROGRAM OUTCOMES(POs)

<b>PO1</b>	Engineering knowledge: Apply the knowledge of Mathematics, Science, Engineering fundamentals, and an Engineering specialization to the solution of complex Engineering problems.
<b>PO2</b>	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
<b>PO3</b>	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



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	considerations.
<b>PO4</b>	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.
<b>PO5</b>	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
<b>PO6</b>	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.
<b>PO7</b>	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.
<b>PO8</b>	Ethics: Apply ethical principles and commit to professional ethics and responsibilities and norms of the engineering practice.
<b>PO9</b>	Individual and team work: Function effectively as an individual, and as a member or leader in diverse teams, and in multidisciplinary settings.
<b>PO10</b>	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



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	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.

## PROGRAM SPECIFIC OUTCOMES(PSOs)

PSO1	<b>Professional skills:</b> an ability to understand the basic concepts in electronics and communication engineering and to apply them to various areas, like electronics, communications signal processing, VLSI, embedded system etc, in the design and implementation of complex system
PSO2	<b>Problem –solving skills:</b> An ability to solve complex electronics and communication engineering problems, using latest hardware and software tools, along with analytical skills to arrive cost effective and appropriate solutions
PSO3	<b>Successful Career and Entrepreneurship:</b> An understanding of social-awareness and environmental wisdom along with ethical responsibility to have a successful career and to sustain passion and zeal for real-world applications using optimal resources as an Entrepreneur.