



SREE VIDYANIKETHAN ENGINEERING COLLEGE

(Autonomous)

Sree Sainath Nagar, A.Rangampet – 517102

Department of Electronics and Instrumentation Engineering

The Department was started in the year 1997 with an intake of 30. The intake was increased to 60 from the Academic year 2002-03 and further increased to 120 from the Academic Year 2008-09. Two times the Department was accredited by NBA of AICTE, New Delhi.

Goals

- To establish the link with industry for research, knowledge sharing and student placements.
- To provide 100% student placements by imparting training in Technical and Soft Skills.
- To nurture students into enterprising entrepreneurs.
- To provide consultancy for process industries.

Programme Educational Objectives

After few years of completion of programme, graduate will

- PEO1 : Enrolled or completed higher education in the core or allied areas of electronics and instrumentation engineering or management.
- PEO2 : Successful in career pertaining to electronics and instrumentation enabled industries or software industries or be an Entrepreneur in the domain area.
- PEO3 : Constantly enhanced their knowledge on new developments in the core or allied areas of electronics and instrumentation engineering.

Programme Outcomes:

After completion of Programme the graduates will be able to

- PO1 : Apply the knowledge of mathematics, science, engineering fundamentals, and an engineering specialization to the solution of complex engineering problems.
- PO2 : Identify, formulate, research literature, and analyze complex engineering problems reaching substantiated conclusions using first principles of mathematics, natural sciences, and engineering sciences.
- PO3 : 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 : 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 : 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 : 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 : Understand the impact of the professional engineering solutions in societal and environmental contexts, and demonstrate the knowledge of, and need for sustainable development.
- PO8 : Apply ethical principles and commit to professional ethics and responsibilities and norms of the engineering practice.
- PO9 : Function effectively as an individual, and as a member or leader in diverse teams, and in multidisciplinary settings.
- PO10: 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: 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: 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.

Programme Specific Outcomes:

On successful completion of the Program, the graduates of B. Tech. (EIE) Program will be able to

- PSO1: Identify and apply suitable sensors and measuring instruments to acquire process variable to analyze the behavior of the system.
- PSO2: Analyze, design and implement electronic systems for processing the signals for efficient and smart systems.
- PSO3: Design controllers with domain specific tools and technologies for customized solutions.