



VNR VIGNANA JYOTHI INSTITUTE OF ENGINEERING & TECHNOLOGY
DEPARTMENT OF ELECTRONICS & INSTRUMENTATION ENGINEERING

PEOs, POs and PSOs of B.Tech. Programme in “Electronics and Instrumentation Engineering”

Programme Educational Objectives (PEOs)

Undergraduate student in Electronics and Instrumentation Engineering will be able to:

PEO1:

Solve current and changing engineering problems with a solid foundation in Mathematics, Science and Technology.

PEO2:

Comprehend, analyse, design, and develop novel products and offer solutions for industry specific processes.

PEO3:

Adopt the learning culture needed for a successful professional career.

PEO4:

Demonstrate managerial and entrepreneurship skills essential for professional growth.

PEO5:

Observe moral values and professional ethics while developing innovative solutions to meet the industrial and societal needs

Programme Objectives (POs)

The Students of Electronics and Instrumentation Engineering will be able to:

- a. Apply the knowledge of Mathematics, Basic Sciences and Engineering to the solution of complex Electronics and Instrumentation Engineering problems.
- b. Analyse complex engineering problems and provide solutions with the help of basic engineering fundamentals.
- c. Design and develop solutions for engineering problems to meet the specified needs with societal and environmental considerations using instrumentation techniques.
- d. Use research based knowledge to perform investigations, conduct experiments, analyse and interpret the results to provide valid conclusions for engineering problems.

- e. Use suitable modern technical tools necessary for design and development of Electronic and Instrumentation Systems
- f. Identify, formulate and develop solutions in the fields of Instrumentation in consideration with health, safety, security and legal issues of the society.
- g. Understand the impact of the professional engineering solutions in societal and environmental contexts.
- h. Develop consciousness of professional, ethical and the social responsibilities as experts in Electronics and Instrumentation Engineering
- i. Perform effectively as an individual and as a member in multidisciplinary team
- j. Communicate and Present effectively the engineering activities with society at large.
- k. Demonstrate knowledge and understanding of the engineering and management principles to manage projects in multidisciplinary environment
- l. Synchronize with contemporary issues, technological development and acquire lifelong learning.

Programme Specific Objectives (PSOs)

The Students of Electronics and Instrumentation Engineering will be able to:

- a. Use suitable modern technical tools necessary for design and development of Electronic and Instrumentation Systems
- b. Identify, formulate and develop solutions in the fields of Instrumentation in consideration with health, safety, security and legal issues of the society.
- c. Synchronize with contemporary issues, technological development and acquire lifelong learning.