



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

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

Programme Educational Objectives (PEOs)

The major objectives of M.Tech. Programme in “Electronics and Instrumentation” are to prepare students:

- I. To Excel in professional career and/or higher education by acquiring knowledge in measurements, transduction and instrumentation engineering principles.
- II. To enhance knowledge to design & develop advanced instrumentation and automation systems for remote monitoring and control applications.
- III. Analyze real life problems, design data acquisition systems with computing platforms appropriate to Electronics and Instrumentation that are economically feasible and acceptable.
- IV. To acquire soft skills through teamwork, presentations, seminar and dissertation.
- V. To serve research and development organizations to solve the problems raised in the industries and society and involve in lifelong learning.

Program Outcomes (POs) for M.Tech Electronics and Instrumentation:

The graduates will be able

- a. To independently carry out research /investigation and development work to solve practical problems.
- b. To write and present a substantial technical report/document.
- c. To demonstrate a degree of mastery over the area as per the specialization of the program. The mastery should be at a level higher than the requirements in the appropriate bachelor program
- d. To identify suitable sensors and transducers for real time applications.

- e. To Acquire knowledge of Instrumentation Engineering with ability to evaluate, analyze and synthesize problems related to process oriented industries.
- f. To use innovative technologies, skills and modern engineering tools to carry out projects related to real-life applications like Robotics, Analytical and Biomedical instruments.

Program Specific Outcomes (PSOs):

The graduates will be able to

- i. To identify suitable sensors and transducers for real time applications.
- ii. To Acquire knowledge of Instrumentation Engineering with ability to evaluate, analyze and synthesize problems related to process oriented industries.
- iii. To use innovative technologies, skills and modern engineering tools to carry out projects related to real-life applications like Robotics, Analytical and Biomedical instruments.