

Programme Educational Objectives

1. **Preparation:** To prepare the students to solve socio-engineering problems so as to steer the organization towards excellence through systematic thinking, excel in higher studies and be a successful technical professional through rigorous education/ training.
2. **Core competence:** To provide students with solid foundation in Mathematics and Fundamentals of Engineering sciences, Electronic circuit design, Telecommunication engineering and Signal processing so as to solve engineering problems and also pursue higher studies.
3. **Breadth:** To impart students with such skills that enable them to comprehend, analyze, design and implement so as to provide multidisciplinary solutions to real world social and technical problems with innovative ideas.
4. **Professionalism:** To inculcate in students social awareness, value based systems, leadership qualities, professional and ethical attitude, good communication skills to bring holistic development of personality and ability to relate engineering issues in social context.
5. **Learning Environment:** To provide students with excellent academic and social environment aware of leadership, ethical codes, team spirit, lifelong learning, to build a sound professional career with stimulated innovative thinking.

Programme Outcomes

Program Outcomes:

- a. Students have attained an ability to apply knowledge of mathematics, science, and engineering.
- b. Students have an ability to design and conduct experiments, as well as to analyze.
- c. Students have an ability to design a system, component, or process to meet desired needs within realistic constraints such as economic, environmental, social, political ethical, health and safety, manufacturability, and sustainability.
- d. Students have an ability to function on multidisciplinary teams.
- e. Students have an ability to identify, formulate, and solve engineering problems.
- f. Students have an understanding of professional and ethical responsibility.
- g. Students have an ability to communicate effectively
- h. Students have the broad education necessary to understand the impact of engineering solutions in a global, economic and social context.
- i. Students demonstrate recognition of the need for, and an ability to engage in, life-long learning.
- j. Students have knowledge of contemporary issues.
- k. Students have an ability to use the techniques, skills, and modern engineering tools necessary for engineering practice.

Program Specific Program Outcomes:

- l. To develop ability to analyze, simulate, design and implement analog as well as digital circuits, communication systems, micro-computer systems, instrumentation and control systems and power systems.
- m. To develop the project management skills related to the program.
- n. The ability to utilize probability and statistics, transform methods, engineering mathematic in the support of Electronics and Telecommunication systems.