

Programme Educational Objectives

- I. **PREPARATION:** To prepare students to excel in postgraduate programmes or to succeed in industry/technical profession through global rigorous education.
- II. **CORE COMPETENCE:** To provide students with a solid foundation in mathematical, scientific and engineering fundamentals required to solve engineering problems and also to pursue higher studies.
- III. **BREADTH:** To train students with good scientific and engineering breadth so as to comprehend, analyze, design and create novel products and solutions for the real life problems.
- IV. **PROFESSIONALISM:** To inculcate in students professional and ethical attitude, effective communication skills, team work skills, multidisciplinary approach and an ability to relate engineering issues to broader social context.
- V. **LEARNING ENVIRONMENT:** To provide student with an academic environment aware of excellence, leadership, written ethical codes and guidelines, and the life-long learning needed for a successful professional career.

Programme Outcomes

- a. Graduate will demonstrate knowledge of mathematics, science, and engineering.
- b. Graduate will demonstrate an ability to identify, formulate and solve engineering problems.
- c. Graduate will demonstrate an ability to design and conduct experiments, analyze and interpret data.
- d. Graduate will demonstrate an ability to design a engineering system, component, or process as per needs and specifications.
- e. Graduate will demonstrate an ability to visualize and work on laboratory and multi-disciplinary tasks.
- f. Graduate will demonstrate skills to use modern engineering tools, software and equipment to analyze problems.
- g. Graduate will demonstrate knowledge of professional and ethical responsibilities.
- h. Graduate will be able to communicate effectively in both verbal and written form.

- i. Graduate will show the understanding of impact of engineering solutions on the society and also will be aware of contemporary issues.
- j. Graduate will develop confidence for self education and ability for life-long learning.
- k. Graduate who can participate and succeed in competitive examinations