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