Program Educational Objectives

- **PEO1:** Excel in their professional practice and leadership in industry, government and private sector organizations.
- **PEO2:** Apply core knowledge and demonstrate skills in the multi-disciplinary research domains and emerging technologies.
- **PEO3:** Create new opportunities through innovations and find solutions to uplift the society.

Program Outcomes

Graduates will have ability to:

- **PO1:** Apply knowledge of mathematics, science and engineering for the solution of mechanical engineering problems.
- **PO2:** Identify, formulate, research literature and analyze complex engineering problems reaching substantiated conclusions using first principles of mathematics, natural sciences and engineering sciences.
- **PO3:** Design solutions for complex mechanical engineering problems and design system components are processes that meet specified needs with appropriate consideration for public health and safety, cultural, societal and environmental consideration.
- **PO4:** Conduct investigations of complex problems, analysis and statistical data to arrive valid conclusions.

- **PO5:** Create, select and apply appropriate techniques, resources and modern engineering and IT tools including prediction and modelling to solve complex mechanical engineering activities with an understanding of the limitations.
- **PO6:** Apply knowledge of contemporary issues for solving problems faced by the society through application of mechanical engineering principles.
- **PO7:** Understand the impact of professional engineering solutions in societal and environmental context and demonstrate knowledge of and need for sustainable development.
- **PO8:** Understand and exhibit professional and ethical responsibility.
- **PO9:** Function effectively as an individual, and as a member or leader in multi- disciplinary teams to accomplish common goals.
- **PO10:** Communicate effectively on complex engineering activities, with the engineering community and with society at large, such as being able to comprehend and write effective reports and design documentation, make effective presentations and give and receive clear instructions.
- **PO11:** Apply the principle of management and finance to effectively handle projects in multi-disciplinary environments.
- **PO12:** Recognize the need for and have the preparation ability to engage in independent and lifelong learning in the broadest context of technological change.

Program Specific Outcomes

- **PSO1:** The graduates shall have the domain knowledge, interdisciplinary research capability, analytical, logical and technical competency to develop innovative products and patents in the areas of social concern.
- **PSO2:** The graduates shall be equipped with professional, ethical and communicational skills to be successful team builders in meeting out the challenges and demands of the industry
- **PSO3:** The graduates shall be aspiring mechanical engineers with good values, having the ambition of lifelong learning, and transferring the knowledge to the society.