

## **VISION AND MISSION OF THE INSTITUTION**

### **VISION**

Become a globally recognized research and academic institution and thereby contribute to technological and socio-economic development of the nation.

### **MISSION**

To foster a culture of excellence in research, innovation, entrepreneurship, rational thinking and civility by providing necessary resources for generation, dissemination and utilization of knowledge and in the process create an ambience for practice-based learning to the youth for success in their careers.

## **VISION AND MISSION OF THE DEPARTMENT**

### **VISION**

To perpetually generate quality human resource in mechanical engineering who can contribute constructively to the technological and socio-economic development of the Nation.

### **MISSION**

**M1:**Offering quality graduate and post graduate programs in mechanical engineering education and to prepare humanist and rational graduates with scientific temperament for exceling in their professional career or higher studies.

**M2:**Promoting excellence in teaching and research through collaborative activities.

## **PROGRAMME EDUCATIONAL OBJECTIVES (PEOs)**

The Programme Educational Objectives of the B.Tech. Mechanical Engineering are:

The graduates will

**PEO1:** Build a thriving career in mechanical engineering, an allied discipline, or a field of his choice.

**PEO2:** Design and produce eco-friendly products by the optimum methods for the benefit of the society while working in a team with ethical values.

**PEO3:** Engage in continuous learning to adapt to the socio-economic-technological developments.

## **PROGRAMME OUTCOMES**

At the end of the programme the graduates will be able to

**PO1:** Utilize the knowledge of basic sciences and engineering principles for solving complex problems in mechanical engineering and allied disciplines.

**PO2:** Analyze complex engineering problems using the systematic approach of problem identification, formulation, literature survey, analysis, and presenting conclusions.

**PO3:** Design mechanical engineering components, systems or processes meeting specifications.

**PO4:** Provide innovative solutions for complex engineering problems using appropriate research methodologies like experimentation, interpretation of data, and synthesis of new information.

**PO5:** Employ the modern engineering tools and techniques for expeditious and effective execution of tasks.

**PO6:** Apply the knowledge of societal, health, safety and legal issues in professional engineering practice.

**PO7:** Recognize the environmental impact of engineering activities and strive towards sustainable development of the humanity.

**PO8:** Adhere to the ethical principles, responsibilities and standard norms of engineering practice.

**PO9:** Work in multi-disciplinary and collaborative environment.

**PO10:** Communicate effectively with the engineering community and the society.

**PO11:** Use the principles related to management and finance while working on a project as a member or a leader of a team.

**PO12:** Involve in lifelong learning in order to continuously improve knowledge and keep abreast with new developments in the profession.