

# **Mechanical Department**

# Vision, Mission, PEO's, PO's and PSO's

## <u>Vision</u>:

The Mechanical Engineering department strives to produce quality engineers to enable them pursue diverse careers with professional standards and ethical values.

### <u>Mission</u>:

- **M1**: To provide relevant and quality education to meet needs of industry and society.
- **M2**: To equip with requisite set of skills and knowledge to succeed and thrive as engineers and leaders.
- **M3**: To provide a continuous learning environment for promoting research activities.
- **M4**: To provide a competitive atmosphere to encourage innovative and original thinking.

### **Program Educational Objectives (PEO's)**

**PEO1:** To prepare students to work in any organization or become an entrepreneur.

**PEO2:** To involve in academic and research oriented projects and build team spirit.

**PEO3:** To associate with professional bodies to improve knowledge and communication skills.

**PEO4:** To create awareness of life-long learning and ethical practices.

**PEO5**: To provide the suitable environment to bring out creativity and innovativeness.

#### Program Outcomes (PO's)

#### Upon completion of the program, the student will be able

**PO1 Engineering knowledge:** To understand and apply the knowledge of mathematics, science and engineering fundamentals to solve the engineering problems.

**PO2 Problem analysis:** To identify, formulate and analyze the complex problems in mechanical and interdisciplinary streams.

**PO3 Design/development of solutions**: To design and develop the components/system or a process for deriving the solutions to meet the specific needs.

**PO4 Conduct investigations of complex problems**: To investigate and obtain solutions to complex problems by adapting experimental and computational techniques.

**PO5 Modern tool usage**: To familiarize with usage of modern methods like simulation, statistical and IT tools for modeling of engineering problems.

**PO6 The engineer and society**: To assess the health, safety, legal and cultural issues and be an important and responsible contributor to the society.

**PO7 Environment and sustainability**: To recognize the long term effects of solutions on environment and sustainability of mankind.

**PO8 Ethics**: To understand and apply the principles of professional and business ethics in their day to day life.

**PO9 Individual and team work**: To execute the work as an individual or member of the team or lead the team effectively to achieve the set objectives/goals.

**PO10 Communication**: To effectively prepare, communicate and present the reports on engineering activities to his peers, subordinates and superiors.

**PO11 Project management and finance**: To apply the Engineering, Finance and Management principles for design and execution of engineering projects.

**PO12 Life-long learning**: To recognize the need and be part of continuous learning to meet the challenges of upcoming technologies.

### Program Specific Outcomes (PSO's)

**PSO1**: To become an entrepreneur/ pursue a profession in Mechanical Engineering.**PSO**2: To take up multi disciplinary and cost effective research oriented projects.

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