



DEPARTMENT OF MECHANICAL ENGINEERING

Department's Vision

To produce world class mechanical engineers by imparting quality technical education and promoting research to meet current and future challenges for industrial development and make them responsible citizens.

Department's Mission

- *To create conducive environment for high quality teaching and learning thereby facilitating the students acquire sound fundamental principles of engineering for higher studies and professional career.*
- *To attain synergy in teaching and real-world problems with industry interaction by having MOUs.*
- *To nurture students with a global outlook for sustainable development.*
- *To produce engineers with high moral and ethical values.*



Program Educational Objectives (PEOs)

PEO 1: To make students acquire comprehensive knowledge of mathematics, basic sciences and humanities in addition to strong concepts in Mechanical Engineering.

PEO 2: To enable graduates, develop expertise and insight in core areas like mechanical design, thermal engineering, materials and manufacturing science to solve any application-oriented problem.

PEO 3: To develop the attitude among students for life-long learning through self-study, research and innovation.

PEO 4: To make the learners well informed citizens with good communication skills and ethical values.



Program Outcomes(POs)

PO1: Able to apply the basic knowledge of mathematics, science, engineering fundamentals and comprehensive knowledge of thermal, design and manufacturing engineering to solve complex engineering problems. [Engineering Knowledge].

PO2: Able to identify, formulate and solve mechanical engineering problems using principles of engineering sciences, mathematics and appropriate engineering standards. [Problem Analysis].

PO3: Able to design mechanical systems/components as per engineering standards to meet desired specifications and requirements with suitable consideration for economy, environment and safety norms. [Design and development of Solutions].

PO4: Able to conduct investigations by analyzing and interpreting data using tools, techniques and research to find solutions for complex engineering problems. [Investigation].

PO5: Able to model, simulate and analyze engineering problems using modern tools. [Modern Tool].

PO6: Able to understand responsibilities associated with the use of technology and processes on societal & legal issues of concern in respect of health, safety and culture. [Engineer and Society].

PO7: Able to understand contemporary issues in sustainable development and in providing technological solutions considering impact of socio-economic and environmental aspects. [Environment and Sustainability].

PO8: Able to understand and implement ethical and professional responsibilities in engineering practice. [Ethics].



PO9: Able to function effectively, as a member or team leader, in executing projects under multidisciplinary environments. [Team Work].

PO10: Able to communicate effectively in written, oral and graphical forms and present the results in a professional manner. [Communication].

PO11: Able to apply knowledge of engineering and management principles for effective project and finance management. [Project Management].

PO12: Able to recognize the need for lifelong learning and adapt to latest technological developments. [Life Long Learning].

Program Specific Outcomes(PSOs)

PSO 1: Identify, Formulate and Analyze Complex Engineering problems in Thermal Engineering, Design Engineering and Manufacturing Engineering domains.

PSO 2: Ability to apply and interpret the acquired Mechanical Engineering knowledge for advancement in social, economic and environmental fields.