

DVR & Dr. HS MIC College of Technology ISO 9001:2015 Certified Institute (Approved by AICTE & Permanently Affiliated to JNTUK, Kakinada) Kanchikacherla - 521180, NTR Dist, A.P. India. Phones: 08678 - 273535 / 94914 57799 / 73826 16824 E mail: office @mictech.ac.in, Website: www.mictech.edu.in



# **DEPARTMENT OF MECHANICAL ENGINEERING**

## **Department's Vision**

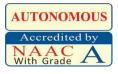
To produce world class mechanical engineers by imparting quality technical education and promoting research to meet current and future challenges for industrial development and make them responsible citizens.

### **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.



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## **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.



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#### 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.