



## **MAHAGURU INSTITUTE OF TECHNOLOGY**

### **DEPARTMENT OF MECHANICAL ENGINEERING**

#### **Programme Educational Objectives (PEOs) for 2020-2021**

1. Apply their mechanical engineering education to address the full range of technical and societal problems with creativity, imagination, confidence and responsibility.
2. Serve as ambassadors for engineering by exhibiting the highest ethical and professional standards, and by communicating the importance and excitement of this dynamic field.
3. Retain the intellectual curiosity that motivates lifelong learning and allows for a flexible response to the rapidly evolving challenges of the 21st century.
4. Ability to identify, formulate and solve mechanical engineering problems based on data interpretation, design, experiment and analysis of results.
5. Develop awareness of the ethical, professional and environmental implications of work in a global and societal context.



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**Programme Outcomes (POs) for 2020-2021**

1. Apply the knowledge of mathematics, science, engineering fundamentals, and an engineering specialization for the solution of complex Mechanical engineering problems.
2. Identify, formulate, research literature, and analyze complex Mechanical engineering problems reaching substantiated conclusions using first principles of mathematics, natural sciences, and engineering sciences.
3. Design solutions for complex Mechanical engineering problems and design system components or processes that meet the specified needs with appropriate consideration for public health and safety and cultural, societal, and environmental considerations.
4. Conduct investigations of complex Mechanical Engineering problems using research-based knowledge and research methods including design of experiments, analysis and interpretation of data, and synthesis of information to provide valid conclusions.
5. Create, select, and apply appropriate techniques, resources, and modern engineering and IT tools, including prediction and modeling to complex Mechanical engineering activities, with an understanding of the limitations.



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**Programme Specific Outcomes for 2020-2021**

1. To impart sound fundamental of basic sciences viz. mathematics, physics, chemistry so as to apply them for engineering problem analysis, and prepare students for higher education and research in the chosen field.
2. To achieve ability to gather and synthesize engineering data with basic knowledge of engineering and prepare students for successful career in industry, while generating thirst for knowledge and lifelong learning.