

**Faculty of Engineering**  
**Teerthanker Mahaveer University**

**B.Tech. (Mechanical Engineering)**

**Programme Outcome**

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

**Programme Specific Outcome**

<b>PSO-1</b>	:	Understanding knowledge of mathematics, engineering and science to identify, formulate, analyze the engineering problems and find cost-effective and optimal solution of real-life problems.
<b>PSO-2</b>	:	Applying mechanical engineering concepts and tools to solve complex engineering and industrial problems in the field of Manufacturing Engineering, Thermal Engineering and Design Engineering.
<b>PSO-3</b>	:	Analysing managerial and entrepreneurial skills to work effectively in multidisciplinary teams for building nation and helping society by following ethical and environmental friendly practices.
<b>PSO-4</b>	:	Evaluating the need of lifelong learning and will engage in learning modern techniques and engineering tools like CAD, Solid Works, CNC machining, 3D printing etc.
<b>PSO-5</b>	:	Creating positive attitude for conducting experiments and developing new concepts on emerging fields.

**Course Outcomes**

<b>EHM513</b>	<b>CO-1</b>	Understanding the importance of value education in life and method of self-exploration.
	<b>CO-2</b>	Understanding 'Natural Acceptance' and Experiential Validation- as the mechanism for self-exploration.

	<b>CO-3</b>	Applying right understanding about relationship and physical facilities.
	<b>CO-4</b>	Analysing harmony in myself, harmony in the family and society, harmony in the nature and existence.
	<b>CO-5</b>	Evaluating human conduct on ethical basis.