

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

**B.Tech. (Civil 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 and Remembering fundamental concepts of assigned courses of each semester.
<b>PSO-2</b>	:	Designing, supervising, testing and evaluating foundations and superstructures for residences, public buildings, industries, irrigation structures, powerhouses, highways, railways, airways, docks and harbours.
<b>PSO-3</b>	:	Designing building by survey, map and plan layouts for buildings, structures and alignments for canals and roads.
<b>PSO-4</b>	:	Analyzing water resources hydrological systems to estimate safe and assured withdrawals, and specify, design, and evaluate water conveying systems, hydraulic machines and surge systems.
<b>PSO-5</b>	:	Specifying, selecting and formulating environmental engineering systems.

**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.