

**Faculty of Engineering  
Teerthanker Mahaveer University**

**B.Sc. (Chemistry Honors)**

**Programme Outcome**

<b>PO-1</b>	:	<b>Critical thinking:</b> This is based on the assumption, thinking and actions. These assumptions are tested for accuracy & validity taking into consideration the ideas and decisions. These ideas may be collected from intellectual organization or personal from different prospectus.
<b>PO-2</b>	:	<b>Effective communication:</b> Effective communication an important tool to enhance the effectiveness of learning among the students. The speaking, reading & writing must be followed correctly.
<b>PO-3</b>	:	<b>Social interaction:</b> Social interaction also play important role to reads the conclusion in group settings.
<b>PO-4</b>	:	<b>Effective citizenship:</b> This contributes in the national development and promptness to achieve the goals. It develops awareness through volunteering.
<b>PO-5</b>	:	<b>Ethics:</b> It has direct impact to recognize the different value systems. It gives proper understanding in different dimension for making decisions.
<b>PO-6</b>	:	<b>Environment and sustainability:</b> Essential to understand the environmental issues & sustainable development.
<b>PO-7</b>	:	<b>Self directed &amp; lifelong learning:</b> Acquire the ability to engage in independent and life-long learning in broad spectrum including socio technological changes.
<b>PO-8</b>	:	<b>Problem analysis &amp; Solving:</b> Identify, formulate, research literature, and analyze complex basic sciences problems reaching substantiated conclusions using first principles of mathematics, natural sciences.
<b>PO-9</b>	:	<b>Entrepreneurship:</b> An Entrepreneurship cut across every sector of human life including the field of engineering, engineering entrepreneurship is the process of harnessing the business opportunities in engineering and turning it into profitable commercially viable innovation.
<b>PO-10</b>	:	<b>Interpersonal skills:</b> Interpersonal skills involve the ability to communicate and build relationships with others. Effective interpersonal skills can help the students during the job interview process and can have a positive impact on your career advancement.
<b>PO-11</b>	:	<b>Technology savvy/usage:</b> Being technology savvy is essentially one's skill to be smart with technology. This skill reaches far beyond 'understanding' the concepts of how technology works and encompasses the 'utilization' of such modern technology for the purpose of enhancing productivity and efficiency.

**Programme Specific Outcome**

<b>PSO-1</b>	:	Understanding the basic information of chemistry including symbols, types of bonds, structure, definitions etc.
<b>PSO-2</b>	:	Remembering basic concept of chemistry including classification & properties of elements, functional groups, formation of bonds and configuration of compounds.
<b>PSO-3</b>	:	Applying chemical synthesis of compounds, various types of chemical reactions,

		physicochemical analysis and identification of compounds.
<b>PSO-4</b>	:	Executing the known techniques to analysis of new compounds, elemental analysis for percentage determination and establishing the molecular formula and structure by modern techniques like IR, NMR, and Raman Spectroscopy etc.
<b>PSO-5</b>	:	Developing new derivatives of the existing compounds and study their physical and chemical properties and comparative studies for various derivatives of existing compounds and can grow evaluating aptitude.
<b>PSO-6</b>	:	Facing all types of competitions and challenges with confidence

### Course Outcomes

<b>TMU201</b>	<b>CO-1</b>	Understanding environmental problems arising due to constructional and developmental activities.
	<b>CO-2</b>	Understanding the natural resources and suitable methods for conservation of resources for sustainable development.
	<b>CO-3</b>	Understanding the importance of ecosystem and biodiversity and its conservation for maintaining ecological balance.
	<b>CO-4</b>	Understanding the types and adverse effects of various environmental pollutants and their abatement devices.
	<b>CO-5</b>	Understanding Greenhouse effect, various Environmental laws, impact of human population explosion, environment protection movements, different disasters and their management.
<b>BHM 515</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.