

## Course Outcomes- Chemistry

### BSc I Major Chemistry Semester-I

Course Learning Outcomes(CLO):	<p>After completing this course, the learner will be able to:</p> <ol style="list-style-type: none"><li>1. Enable to understand the basis of quantum mechanics and structural idea and relevance in describing shapes of s, p and d orbitals.</li><li>2. To learn about role of temperature and pressure to establish the state of gases and describe the concept of critical constants of real gases.</li><li>3. Get knowledge about the electrophile/nucleophile and its role in mechanism of preparation of organic compounds.</li><li>4. To know the physical properties, morphology and crystalline study of liquid and different type of solids.</li></ol> <hr/> <p>5*. Hand on practice in preparation of solutions, compounds, estimation and determination of physical properties of some compounds.</p>
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### BSc I Major Chemistry Semester-II

Course Learning Outcomes(CLO):	<p>After completing this course, the learner will be able to:</p> <ol style="list-style-type: none"><li>1. Able to understand the theories which governs the shape, structure and ionic behavior, polarizability, ionic structures and concept of Lattice energy of crystals of molecules.</li><li>2. To know the basics of rates of chemical reactions ,the laws and solubility behavior of solutes in different compositions of solvents</li><li>3. To know about alkanes, alkene, cycloalkanes and their chemical reactions.</li><li>4. To understand about weak interactions and bonding in metals.</li></ol> <hr/> <p>5*. Hand on practice for estimation and determination of viscosity, specific refractivity properties of some compounds.</p>
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**BSc I Minor Chemistry  
Semester-I**

Course Learning Outcomes(CLO):	After completing this course, the learner will be able to: <ol style="list-style-type: none"><li>1. To understand the basics of Covalent bonding in simple molecules.</li><li>2. To get the basics of rates of chemical reactions and factors affecting it.</li><li>3. To learn about the nomenclature, classification and methods of preparation of alkenes.</li><li>4. To learn about qualitative knowledge of conductors, semiconductors and insulates.</li></ol> <hr/> <p>5*. Hand on practice in preparation of solutions, compounds, estimation and determination of physical properties of some compounds.</p>
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**BSc I Minor Chemistry  
Semester-II**

Course Learning Outcomes(CLO):	After completing this course, the learner will be able to: <ol style="list-style-type: none"><li>1. To know the basics of periodic properties and hybridization.</li><li>2. To learn about the ionic solids.</li><li>3. Understand about the semiconductors and metallic bonds.</li><li>4. Get the knowledge of stereochemistry of simple organic molecules.</li></ol> <hr/> <p>5*. Hand on practice in preparation of solutions, compounds, estimation and determination of physical properties of some compounds.</p>
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**BSc I MDC Chemistry**  
**Semester-I**

Course Learning Outcomes(CLO):	After completing this course, the learner will be able to: <ol style="list-style-type: none"><li>1. To get knowledge about structure and bonding.</li><li>2. To learn about hydrocarbons and their applications.</li><li>3. To get aware about different polymers.</li><li>4. To get knowledge about preservative.</li></ol> <hr/> <p>5* To get knowledge about experiments related to daily life.</p>
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**BSc I MDC Chemistry**  
**Semester-II**

Course Learning Outcomes(CLO):	After completing this course, the learner will be able to: <ol style="list-style-type: none"><li>1. To learn about role of Indian scientists in the upliftment of research</li><li>2.To learn about classification of elements with their properties</li><li>3.To learn about three states of matter</li><li>4.To get more knowledge about role of fertilizers in fertility of soil</li></ol> <hr/> <p>5*.To learn about acid- base reaction in daily life</p>
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