

Program Outcomes
B.Sc. Part-III Chemistry
 (Semester-V)

Department of Chemistry	After successful completion of three-year degree program in Chemistry a student should be able to:
Program Outcomes	<p>PO-1: Showcase, solve, and comprehend key ideas in all chemistry-related fields.</p> <p>PO-2: Find a solution to the issue and proceed to think critically, independently, and logically.</p> <p>PO-3: Use scientific knowledge and critical thinking to plan, execute, document, and evaluate chemical reaction outcomes.</p> <p>PO-4: Raise public knowledge of how chemistry affects society, the environment, and development outside of the scientific community.</p> <p>PO 5: Discover the sustainable chemical reaction path for green development.</p> <p>PO-6: To instil in students and people outside of the scientific community the spirit of science.</p> <p>PO-7: Employ contemporary methods, appropriate tools, and Chemistry</p>
Program Specific Outcomes	<p>PSO-1: Learn about chemistry via theory and applications.</p> <p>PSO-2: To describe the chemical processes' nomenclature, stereochemistry, structures, reactivity, and mechanism.</p> <p>PSO-3: Determine chemical formulas and address numerical issues.</p> <p>PSO-4: Utilize contemporary chemical tools, models, chem-draw, charts, and equipment.</p> <p>PSO-5: Understand the structure-activity relationship (PSO-5).</p> <p>PSO-6: Recognize safe and appropriate laboratory procedures.</p> <p>PSO-7: Gain talents focused on research.</p> <p>PSO-8: Recognize and manage the complex instruments and equipment</p>

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Course Outcomes	After completion of these course students should be able to;
CH-9. Physical Chemistry	<p>CO-1: Photoelectric effect research.</p> <p>CO-2: Diatomic molecules' vibrational spectra and Raman spectra.</p> <p>CO-3: The distinction between the photochemical and thermal processes.</p> <p>CO-4: Analysis of Raoult's Law for Ideal and less-than-ideal answers.</p> <p>CO-5: Recognize the different kinds of electrodes.</p>
CH-10. Inorganic Chemistry	<p>CO-1: Analysis of acid and base classified as hard and soft.</p> <p>CO-2: Octahedral complexes and its molecular orbital theory.</p> <p>CO-3: Differentiate between inorganic and organic polymers</p> <p>CO-4: Analysis of solids' categorization as semiconductors, insulators, and conductors.</p> <p>CO-5: Alkali-aryl compound synthesis and structures.</p>
CH-11. Organic chemistry	<p>CO-1: Various regions of electromagnetic radiation</p> <p>CO-2: Electronic transition modes.</p> <p>CO-3: Investigate basic forms of vibration.</p> <p>CO-4: Recognize the concepts of de- and shielding.</p> <p>CO-5: Ion types detected in the mass spectrum.</p>
CH-12. Industrial chemistry	<p>CO-1: Haber method ammonia manufacturing.</p> <p>CO-2: Techniques for shielding metal from rust.</p> <p>CO-3: Cane sugar production.</p> <p>CO-4: A comparison of detergent and soap.</p> <p>CO-5: Analysis of nanomaterials' optical characteristics</p>

Course Outcomes
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CH-13. Physical Chemistry	CO-1: Recognize a two-component system. CO-2: Thermodynamic study of the law of mass action CO-3: Analysis of crystallographic laws. CO-4: Investigation of nuclear radiation detection and measurement. CO-5: Recognize counteracting or reversible reactions.
CH-14. Inorganic Chemistry	CO-1: Study of Substitution Mechanism in Cobalt (III) Octahedral Complexes CO-2: Coefficient of thermal stability and kinetic stability CO-3: Recognize nuclear processes. CO-4: Research on the transformation of cast iron into steel. CO-5: The biological role of alkaline and alkaline earth metal ions
CH-15. Organic chemistry	CO-1: Study of various name responses. CO-2: Study of various organic agents. CO-3: Coefficient of rotation in the addition of alkenes and alkynes CO-4: Isoprene rule study. CO-5: Recognize various drug kinds
CH-16. Analytical chemistry	CO-1: Theoretical informants. CO-2: Titration and precipitation study. CO-3: Examination of colorimetry and spectrophotometry theory. CO-4: Recognize the flame photometry concept. CO-5: Study of several chromatography types.