

Department of Chemistry

B.Sc. General under (I+I+I) system

Course Outcome

Paper-I: - Organic & Physical Chemistry

- To help the students to learn the technique to estimate the Nitrogen, Sulphur & Halogens in Organic compounds.
- To make students capable of understanding and studying nomenclature and classification of organic compounds, organic reactions .To has exposure to various emerging new areas of organic chemistry.
- To help the students to know the basic concepts in classical thermodynamics and to learn the thermodynamic aspects of various processes and reactions
- Students have the knowledge about the nature of the gas around them.

Paper-II: - Inorganic & Physical Chemistry.

- To help the students to apply the fundamental principles of measurement, matter, atomic theory, chemical periodicity, chemical bonding, general chemical reactivity and solution chemistry to subsequent courses in science
- To help the students to know the biological effects of different types of ionizing radiation and learn the unique characteristics of continuous radiation burns and whole-body radiation exposure.

Paper-III: - Practical on Qualitative analysis of Organic Compound with melting point & Preparation of derivative compound.

- Students can study the principles about the qualitative organic analysis.
- To make the students capable of detecting of any composition of an organic moiety.

Paper-IV: - Organic & Inorganic Chemistry.

- To make the students capable to understand the mechanism and applications of some important name reactions in organic synthesis.
- To help the students to study the details of stereochemistry and conformational analysis.
- To help the students to study the characteristics of s -block , p -block elements and their compounds and also the Hydrogen.
- To help the students to study the principles and process of metallurgy.

Paper-V: - Inorganic & Physical Chemistry.

- To make the students capable to understand the fundamental concepts of coordination Chemistry, the theories of bonding in the coordination complexes, the stability and applications of coordination Complexes.
- To help the students to gain the knowledge about complex metric titration.
- To help the students to understand the kinetics of reactions, understand the concept and applications of photochemical reactions and study the fundamentals of electrochemistry as well as the EMF and its applications.

Paper-VI: - Practical on Qualitative analysis of Inorganic compounds Chemistry.

- Help the students to know the basic apparatus and their calibration used in Chemistry laboratory, study the principles used in qualitative analysis.
- To make students capable to detect of inorganic radicals/ions into any ionic moiety.

Paper-VII: - Industrial Chemistry.

- To help the students to study the importance of petroleum and petrochemicals, understand the idea about the plant nutrients/fertilizers and their importance.
- To give the students knowledge about the composition of various industrial products.

Paper-VIII: - Quantitative analysis on Inorganic compounds and Preparation of daily used compounds.

- To make the students capable to estimate the ratio and composition of any inorganic salts.
- To make the students capable to prepare the daily used compounds.