

B.Sc. Honours in Chemistry

Course Code	Course Name	Course Outcome
CEMHCC01	C1T, C1P	Understanding structure, bonding, stability, and physical properties of organic molecule and reaction intermediate, MO, aromaticity, The capability to separate the components of binary solid mixture by using common laboratory reagents, determine the boiling point of liquid organic
CEMHCC02	C2T, C2P	knowledge about the different types of thermodynamics laws, properties of various thermodynamic parameters and functions, which help us to predict influence of different conditions on the chemical reactions. concept of reaction kinetics,
CEMHCC03	C3T, C3P	Knowledge about structure of atom, concept of acid and base and stability of a reaction with respect to acid base, concept of redox and precipitation reaction, gravimetric estimation of metal ions
CEMHCC04	C4T, C4P	Lots of knowledge about tautomerism, reaction kinetics, free radical substitution reaction, and elimination reaction. A practical idea about nitration, hydrolysis, diazotisation, bromination
CEMHCC05	C5T, C5P	make a conceptual sense about viscosity, conductance and transport number, chemical equilibrium and chemical potential. A brief knowledge about quantum mechanics. Practical knowledge about partition coefficient, conductometric titration, determination of K_a
CEMHCC06	C6T, C6P	Knowledge about ionic bond, covalent bond, molecular diagram of small molecule, weak chemical forces and proper, application of radioactive elements. Practical knowledge about the gravimetric estimation of metal ions
CEMHCC07	C7T, C7P	knowledge about the chemistry of alkenes and alkynes, aromatic substitution, and a vast knowledge about organometallics and carbonyl compounds. Practical idea about special elements, detection of functional group,
CEMHCC08	C8T, C8P	Vast knowledge about colligative property, Phase rule, binary solution, ionic equilibrium, electromotive force, and quantum chemistry. Practical idea about potentiometric titration, phase diagram, pH metric titration, and determination of K_{sp} .
CEMHCC09	C9T, C9P	Concept of metallurgy, s, p block element, noble gas, coordination chemistry and inorganic polymer. A practical idea about gravimetric estimation of metal ions, and preparation of complex compounds
CEMHCC10	C10T, C10P	Knowledge about organic amines and nitro compounds, rearrangement reaction, organic spectroscopy like IR, NMR, UV. Practical idea about estimation of biologically important compounds like glucose, sucrose, vitamin C etc.
CEMHCC11	C11T, C11P	Vast knowledge about the formation, structure and property of coordination compound. A detailed idea about the property of transition elements, lanthanides and actinides. Practically training about the spectroscopic separation of the complexes and gravimetric estimation of metal ions.
CEMHCC12	C12 T, C12P	A detailed knowledge about heterocyclic compounds, cyclic stereochemistry, carbohydrates, pericyclic reaction and biomolecules. A hand setting about chromatographic separation and spectroscopic analysis of organic compounds.
CEMHCC13	C13T, C13P	A detailed knowledge about bioinorganic chemistry, organometallic chemistry and reaction kinetics by using coordination compounds. A practical knowledge about the identification of cationic and anionic radicals.
CEMHCC14	C14T, C14P	A detailed concept of rotation, vibration, Raman and NMR spectroscopy. A conceptual idea about surface phenomena and photochemistry. Practically