Programme Specific Outcome: B.Sc. General (Chemistry)

The purpose of the undergraduate chemistry program is to provide the key knowledge base and laboratory resources to prepare students for careers as professionals in the field of chemistry.

Students will have a firm foundation in the fundamentals and application of current chemical and scientific theories including those in Analytical, Inorganic, Organic and Physical Chemistries.

Students will be skilled in problem solving, critical thinking and analytical reasoning as applied to scientific problems.

Students will be able to clearly communicate the results of scientific work in oral, written and electronic formats.

Students will be able to explore new areas of research in both chemistry and allied fields of science and technology.

Students will appreciate the central role of chemistry in our society and use this as a basis for ethical behavior in issues facing chemists including an understanding of safe handling of chemicals, environmental issues and key issues facing our society in energy, health and medicine.

Students will be able to explain why chemistry is an integral activity for addressing social, economic, and environmental problems.

Finally, they will be sufficiently trained to get employment in Govt. sector, non Govt. sector in chemical/ pharmaceutical industry and .other areas.

Course Outcome: B.Sc. General (Chemistry)

Course Code	Course Name	Course Outcome
CEMGCC01	**DSC 1AT, DSC1AP**	To understand the extra-nuclear structure of atom, knowledge of Chemical Bonding and Molecular Structure , general organic chemistry & aliphatic hydrocarbons. Practically Volumetric Analysis and identification of extra elements organic compounds and separation of mixtures by Chromatography
CEMGCC02	**DSC1BT, DSC1BP**	A detail knowledge about chemical energy, ionic equilibria, chemical equilibria ans all aromatic hydro carbons. Practical knowledge about the determination of different enthalpy anf heat capacity.
CEMGCC03	**DSC1CT, DSC1CP**	A detail knowledge about solution chemistry, phase equilibria, conductance and electro chemistry. A cenceptual idea about different bio organic compounds. Practical knowledge about the potentiometric and conductometric titration and a practical knowlede related to bioorganic compounds.
CEMGCC04	**DSC1DT, DSC1DP**	A vast knowledge about coordination chemistry, VBT, CFT, solid, liquid and kinetic theory of gas. Practical knowledge about cation and anion radical detection, and use spectroscopic methods related to the metal complexes.
CEMGSE01	**SEC 1T, SEC1P**	A basic idea about the analysis methods of soil, water food and a concept abut ion exchange and chromatography. Practical knowledge of food analysis and separation of compounds by TLC and ion exchange.
CEMGSE02	**SEC 2T SEC2P**	Basic understanding of the structures, properties and functions of carbohydrates, lipids and proteins and related practical knowledge
CEMGSE03	**SEC3T, SEC3P**	conceptual knowledge about Drugs & Pharmaceutical chemistry and a practical knowlwdge related to this
CEMGSE04	**SEC4T SEC4P**	A basic knowledge about pesticide chemistry.
CEMGDSE01	**DSE 1T, DSE 1P**	Conceptual idea about Introduction and history of polymeric materials, Kinetics of Polymerization, Properties of Polymers. In practical will learn Polymer synthesis, characterization and analysis
CEMGDSE02	**DSE 2T, DSE 2P**	A vast knowledge about the application of computer in chemistry. Practical knowledge about the programming of chemical equation.