PROGRAMME SPECIFIC OUTCOMES (PSO)

FOR

M.Sc CHEMISTRY

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PSO 1:

Acquire understanding of fundamental concepts and applications of chemical and various scientific theories. Appreciate the importance of various elements in the periodic table, coordination chemistry and structure of molecules, properties of compounds, structural determination of molecules /complexes using theories and experimental techniques.

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Understand the background of organic /inorganic reaction mechanisms, chemical structures, experimental methods of chemical analysis, organic synthesis, molecular rearrangements and separation techniques.

PSO 3:

Gather deep understanding about the physical aspects of atomic structure, quantum theory, molecular spectroscopy, thermodynamics, kinetics, catalysis, chemical equilibrium, reaction pathways with respect to time, various energy transformations, molecular assembly at surface level, significance of electrochemistry, and molecular segregation using their symmetry.

PSO 4:

Use technologies/instrumentation to acquire and analyze data of chemical systems in a sophisticated laboratory environment to secure challenging positions in industry, academics and government sectors by learning various analytical techniques such as UV, IR, NMR, MS, Chromatography etc and their applications. Develop analytical skills and problem solving skills requiring to develop new applications of chemistry.

PSO 5:

Gain knowledge in recent and advanced developments in the area of Nanochemistry, Medicinal Chemistry, Green Chemistry, Natural Products Chemistry, Bioinorganic Chemistry. Apply appropriate techniques for the qualitative and quantitative analysis of chemical system and carry out experiments in the area of organic / inorganic/ physical analysis -estimation, separation, derivative process, semi-micro analysis, preparation, conductometric / potentiometric methods.