M.Sc. CHEMISTRY

PROGRAMME EDUCATIONAL OBJECTIVIES (PEO)		
PEO1	Apply chemical principles and theories and acquire skills in synthesis, instrumentation and characterization.	
PEO2	Apply laboratory skills and critical thinking to develop applications for solving Industry oriented problems.	
PEO3	Function as a team member and develop projects in a multi-disciplinary environment by emulating leadership skills.	
PEO4	Work productively as chemistry professional by adopting to environment with lifelong learning and adhering to ethical standards and apply the knowledge acquired for the improvement of the society.	

PROGRAMME OUTCOMES (PO)	
PO1	Understand and appreciate the importance of Chemistry as a central science by the knowledge of its diverse applications.
PO2	Have sound knowledge of the fundamental and advanced concepts of applications of chemical and scientific theories.
PO3	Acquire experimental skills required for employment in chemical and pharmaceutical industry.
PO4	Develop analytical and problem-solving skills
PO5	Acquire the ability to synthesize, separate and characterize compounds using laboratory and instrumentation techniques.
PO6	Identify the major problems of the society and environment for which Chemistry has offered and can provide solutions and get motivated to further work on it by pursuing research with social responsibility.

PROGRAMME SPECIFIC OUTCOMES (PSO)	
PSO-1	Apply the knowledge acquired about chemical reactions and their mechanisms to design new synthetic pathways
PSO-2	Design and synthesize new compounds which have potential applications in Industry and Medicine.
PSO-3	Carry out experiments and analysis in the area of organic analysis, estimation, separation, inorganic semi micro analysis, preparation
PSO-4	Apply the concepts and applications of kinetics thermodynamics
PSO-5	Open up new methods for environmental pollution&apply green/sustainable chemistry approach towards planning and execution of research in frontier areas of chemical sciences
PSO-6	Deduce the structure of compounds using various characterization techniques
PSO 7	Analyze & appreciatethe different types polymers, supramolecular materials, naturally available chemicals and their synthetic congeners
PSO-8	Apply appropriate techniques for the qualitative and quantitative analysis of chemicals in laboratories
PSO-9	Perform estimation experiments relating to electrochemistry, thermodynamics and Kinetics
PSO-10	Apply the concepts of quantum mechanics and group theory