

Master of Science (M.Sc.) in Chemistry – Physical Chemistry

Duration: 2 Years (4 Semesters)

Program Type: Postgraduate Degree Program

Semester I

Subject Code	Subject Name
PCH101	Quantum Chemistry
PCH102	Thermodynamics and Chemical Equilibrium
PCH103	Molecular Spectroscopy
PCH104	Mathematical Methods in Chemistry
PCH105P	Physical Chemistry Practical-I
PCH106	Research Methodology and Scientific Writing

Semester II

Subject Code	Subject Name
PCH201	Chemical Kinetics and Reaction Dynamics
PCH202	Statistical Thermodynamics
PCH203	Electrochemistry
PCH204	Surface and Colloid Chemistry
PCH205P	Physical Chemistry Practical-II
PCH206	Computational Chemistry

Semester III

Subject Code	Subject Name
PCH301	Advanced Quantum Chemistry
PCH302	Photochemistry and Photo physics
PCH303	Solid State Chemistry
PCH304	Materials Chemistry
PCH305P	Advanced Physical Chemistry Laboratory

Subject Code	Subject Name
PCH306	Instrumental Methods of Analysis

Semester IV

Subject Code	Subject Name
PCH401	Nano chemistry and Nanotechnology
PCH402	Polymer Chemistry
PCH403	Advanced Spectroscopic Techniques
PCH404	Environmental and Energy Chemistry
PCH405	Dissertation / Project Work
PCH406	Viva Voce