

DEPARTMENT OF CHEMISTRY
PROGRAMME: M Sc Chemistry

Semester I

Paper Code	Course Title	Total hours	Hours/week	Credit
CHE1C01	Quantum Mechanics and Computational Chemistry	4	72	4
CHE1C02	Elementary inorganic chemistry	3	54	4
CHE1C03	Structure and reactivity of Organic Compounds	3	54	4
CHE1C04	Thermodynamics, kinetics and catalysis	3	54	4
CHE1L01	Inorganic chemistry practical I	4	72	-
CHE1L02	Organic chemistry practical I	4	72	-
CHE1L03	Physical chemistry practical I	4	72	-

Semester II

Paper Code	Course Title	Total hours	Hours/week	Credit
CHE1C05	Group theory and Chemical bonding	3	54	3
CHE1C06	Coordination chemistry	3	54	3
CHE1C07	Reaction mechanism in organic chemistry	3	54	3
CHE1C08	Electrochemistry, solid state chemistry and statistical thermodynamics	3	54	3
CHE1L04	Inorganic chemistry practical II	4	72	3
CHE1L05	Organic chemistry practical II	4	72	3
CHE1L06	Physical chemistry practical II	4	72	3

Semester III

Paper Code	Course Title	Total hours	Hours/week	Credit
CHE1C09	Molecular spectroscopy	4	72	4
CHE1C10	Organic and Bioinorganic chemistry	3	54	4
CHE1C11	Reagents and Transformations in Organic chemistry	3	54	4
CHE3E03	Green and Nanochemistry (Elective)	3	54	4
CHE1L07	Inorganic chemistry practical III	4	72	-
CHE1L08	Organic chemistry practical III	4	72	-
CHE1L09	Physical chemistry practical III	4	72	-

Semester IV

Paper Code	Course Title	Total hours	Hours/week	Credit
CHE1C12	Instrumental Methods of Analysis	4	72	4
CHE1E05	Industrial Catalysis (Elective)	4	72	4
CHE1E06	Natural products and Polymer chemistry (Elective)	4	72	4
CHE1L10	Inorganic chemistry practical IV	3	54	3
CHE1L11	Organic chemistry practical IV	3	54	3
CHE1L12	Physical chemistry practical IV	3	54	3
CHE4P01	Research Project	3	54	4
CHE4V01	Viva Voce	-	-	2