

Master of Science (M.Sc) Chemistry

Curriculum - 2024

Semester	No.	Course	Credit	Nature
Semester 1				
CY5001	1	Principles in Chemistry	3	Core
CY5003	2	Mathematics for Chemistry	3	Core
CY5015	3	Atomic and Molecular Structure	3	Core
CY5005	4	Symmetry, Group Theory and Spectroscopy	3	Core
CY5009	5	Structure and Properties of Molecules	3	Core
CY5101	6	Synthesis, Energetics and Dynamics Lab 1	2	Core
IDXXXX	7	Communication and Technical Writing Skills	2	CWC
Total Credits			19	
Semester 2				
CY5002	1	Chemistry of Materials	3	Core
CY5004	2	Molecular Dynamics and Basic Statistical Thermodynamics	3	Core
CY5006	3	Elucidation of Molecular Structure	3	Core
CY5008	4	Reaction Mechanisms	3	Core
CY5102	5	Synthesis, Energetics and Dynamics Lab 2	2	Core
CY5104	6	Synthesis, Energetics and Dynamics Lab 3	2	Core
Total Credits			16	
Semester 3				
CY5011	1	Dynamics of Charge Transport	3	Core
CY5013	2	Synthetic Approaches in Chemistry	3	Core
CY5017	3	Chemistry of Life	3	Core
CYXXXX	4	Elective 1	3	Elective
CY5103	5	Advanced Chemistry Laboratory	2	Core
CYXXXX	6	Mini Project	3	Core

IDXXXX	7	Research Methodology and Professional Ethics	0	CWC
Total Credits			17	
Semester 4				
CYXXXX	1	Elective 2	3	Elective
CYXXXX	2	Elective 3	3	Elective
CYXXXX	3	Elective 4	3	Elective
CYXXXX	4	Major Project	9	Core
		Total Credits	18	

Cumulative Credits (4 Semesters): 70

[Syllabus Link](#)