



SCHOOL OF ENGINEERING AND SCIENCES

M.Sc. in Chemistry

2023-25 Batch

M.Sc. in Chemistry

Semester-1							
Category	Sub-Category	Course Title	L	T/D	P/Pr	Credits	Learning Hours
AEC1	University AEC	Community Engagement and Social Responsibility	0	0	0	1*	0
VAC1	University VAC	Effective Communication for Impactful Interviews	2	0	0	2	60
SEC1	School SEC	Introduction to R and Python	1	1	1	3	90
Core	Department	Organic Chemistry I: Structure Bonding and Reaction Mechanism	3	0	1	4	120
Core	Department	Chemistry of Main Group and Transition Metals	3	0	1	4	120
Core	Department	Thermodynamic Systems and States of Matter	3	0	1	4	120
Core	Department	Introduction to Quantum Chemistry: Concepts and Applications	3	0	0	3	90
FIC	School	Data Science for Beginners	3	0	0	3	90
Semester Total						23	690
Semester-2							
Category	Sub-Category	Course Title	L	T/D	P/Pr	Credits	Learning Hours
AEC2	University AEC	Community Engagement and Social Responsibility	0	0	0	1*	0
VAC2	University VAC	Entrepreneurial Mindset	2	0	0	2	60
SEC2	School SEC	Research Design and Methods	2	1	0	3	90
Core	Department	Organic Chemistry II: Organic Reactions	3	0	1	4	120
Core	Department	Solid State, Nanomaterials, and Inorganic Photochemistry	3	0	1	4	120
Core	Department	Reaction Kinetics and Electrochemistry	3	0	1	4	120
Core	Department	Principles, Instrumentation, and Applications of Analytical Techniques	3	0	0	3	90
FIC	University	Design Thinking	3	0	0	3	90
Semester Total						23	690
Category	Sub-Category	Course Title	L	T/D	P/Pr	Credits	Learning Hours
RDIP	Department	Summer Internship (Industry)	0	0	2	2	60

Semester-3							
Category	Sub-Category	Course Title	L	T/D	P/Pr	Credits	Learning Hours
AEC3	School AEC	Research Seminar (Invited Lectures)	0	0	0	1*	
Core Elective	Department	General/Industrial/Computational	3	0	1	4	120
Core Elective	Department	General/Industrial/Computational	3	0	1	4	120
Core Elective	Department	General/Industrial/Computational	3	0	1	4	120
FIC	School		3	0	0	3	90
RDIP	Internship / Research / Thesis	Project 1	0	0	3	3	90
Semester Total						18	540
Semester-4							
Category	Sub-Category	Course Title	L	T/D	P/Pr	Credits	Learning Hours
RDIP	Internship / Research / Thesis	Project 2	0	0	14	14	420
Semester Total						14	420