

Bachelor of Science with Chemistry and Mathematics

School of Advanced Sciences

Programme Credit Structure	Credits						
Discipline Core Courses	74	XXXXXXXX Medicinal Chemistry	3	0	0	3	
Discipline Elective Courses	30	XXXXXXXX Polymer Chemistry	3	0	0	3	
Ability Enhancement Compulsory Courses	09	XXXXXXXX Probability and Statistics	3	0	2	4	
Skill Enhancement Elective Courses	10	XXXXXXXX Graph Theory	3	1	0	4	
Project	06	XXXXXXXX Operations Research	3	1	0	4	
Total Graded Credit Requirement	129	XXXXXXXX Statics and Dynamics	3	0	0	3	
Non-Graded Credit Requirement	10	XXXXXXXX Transform Techniques	3	1	0	4	
		XXXXXXXX Number Theory	3	0	0	3	
		XXXXXXXX Fuzzy Set Theory	3	0	0	3	
		XXXXXXXX Numerical Methods	3	0	0	3	
		XXXXXXXX Mathematical Modelling	3	0	0	3	
		XXXXXXXX AI and Machine Learning	3	0	0	3	
Discipline Core Courses	74						
UPHY151L Classical Mechanics	4 0 0 4						
UCHY151L Structure, Bonding and Reactivity	4 0 0 4	Ability Enhancement Compulsory Courses					9
UMAT151L Calculus	3 0 0 3	UENG101P Effective English Communication Lab	0	0	4	2	
UMAT151P Calculus Lab	0 0 2 1	UENG102L Technical English Communication	2	0	0	2	
UBIT151L Biological Sciences	3 1 0 4	UENG102P Technical English Communication Lab	0	0	2	1	
UPHY152L Electricity and Magnetism	4 0 0 4	UENG103P Technical Report Writing	0	0	2	1	
UCHY152L Physical Chemistry I	4 0 0 4	XXXXXXXX Environmental Studies	3	0	0	3	
UCHY152P Physical Chemistry Lab	0 0 4 2						
UMAT155L Differential Equations and Laplace Transforms	3 0 0 3	Skill Enhancement Elective Courses					10
UMAT155P Differential Equations and Laplace Transforms Lab	0 0 2 1	UCSE151E Computer Programming: Python	1	0	4	3	
UPHY153P Physics Lab I	0 0 4 2	UCSE152E Computer Programming: Java	1	0	4	3	
XXXXXXXX Inorganic Chemistry I	4 0 0 4	UCSE153E Structured and Object Oriented Programming	2	0	4	4	
XXXXXXXX Inorganic Chemistry Lab	0 0 4 2	UCSE154E Database Management Systems	3	0	2	4	
XXXXXXXX Organic Chemistry	4 0 0 4	UCSE155E Data Mining	3	0	2	4	
XXXXXXXX Organic Chemistry Lab	0 0 4 2	UMGT151L Lean Start-up Management	3	0	0	3	
XXXXXXXX Analytical Chemistry	3 0 0 3	USTS151P Quantitative Skills Practice	0	0	3	1.5	
XXXXXXXX Analytical Chemistry Lab	0 0 4 2	USTS152P Qualitative Skills Practice	0	0	3	1.5	
XXXXXXXX Analytical Solid Geometry and Vector Calculus	3 1 0 4	UFLE200L Foreign Language	2	0	0	2	
XXXXXXXX Real Analysis	3 1 0 4	USSC151L Creative Writing	2	0	0	2	
XXXXXXXX Complex Analysis	3 1 0 4	UHUM151L Intra and Inter Personal Skills	2	0	0	2	
XXXXXXXX Discrete Mathematics	3 0 0 3	Project					6
XXXXXXXX Abstract Algebra and Linear Algebra	3 1 0 4	XXXXXXXX Project					6
XXXXXXXX Mathematical Chemistry	4 0 0 4						
XXXXXXXX Seminar I	0 0 2 1	Non-Graded Credit Requirement					10
XXXXXXXX Seminar II	0 0 2 1	USSC151N Introduction to Science					2
Discipline Elective Courses	30	UHUM151N Ethics and Values					2
XXXXXXXX Physical Chemistry II	3 0 0 3	USSC152N Indian Constitution					2
XXXXXXXX Quantum Chemistry and Spectroscopy	3 0 0 3	UEXC151N Extracurricular /Co-curricular Activities					2
XXXXXXXX Synthetic Organic Chemistry	3 0 0 3	UEXC152N NSS/NCC					2
XXXXXXXX Heterocyclic Chemistry	3 0 0 3						
XXXXXXXX Inorganic Chemistry II	3 0 0 3						
XXXXXXXX Environmental Chemistry	3 0 0 3						

