

Curriculum for B.Sc. (Hons.) Chemistry Program

Semester : 1 Minimum Semester Credit Required : 24 Cumulative Semester Credit Required : 24				
Subject Type	Subject No.	Subject Name	L-T-P	Credits
		Foundation Course for Biology (Group A) / Foundation Course for Mathematics (Group B)	2-0-0	2
		Basic Physics I	3-1-0	4
		Basic Chemistry I	3-1-0	4
		Basic Life Sciences I	3-1-0	4
		Environment Science	2-0-0	2
		Lab - 1 Physics 1	0-0-2	2
		Lab - 2 Volumetric Analysis	0-0-2	2
		Lab - 3 Life Sciences 1	0-0-2	2
		English Communication	2-0-0	2
		Total		24

Semester : 2 Minimum Semester Credit Required : 24 Cumulative Semester Credit Required : 48				
Subject Type	Subject No.	Subject Name	L-T-P	Credits
		Basic Physics II	3-1-0	4
		Basic Chemistry II	3-1-0	4
		Basic Life Sciences II	3-1-0	4
		Mathematics and Statistics	3-1-0	4
		Lab - 4 Physics 2	0-0-2	2
		Lab - 5 Organic and Physical Chemistry	0-0-2	2
		Lab - 6 Life Sciences 2	0-0-2	2
		English Communication	1-1-0	2
		Total		24

Semester : 3 Minimum Semester Credit Required : 24 Cumulative Semester Credit Required : 72				
Subject Type	Subject No.	Subject Name	L-T-P	Credits
		Physics III	3-0-0	3
		Stereochemistry of Cycloalkanes, Conformational Analysis and Aromaticity	3-0-0	3
		Chemical Thermodynamics	3-0-0	3
		Life Sciences III	3-0-0	3
		Industrial Chemistry	2-0-0	2
		Lab - 7 Physics 3	0-0-2	2
		Lab - 8 Organic Qualitative Analysis	0-0-4	4
		Lab - 9 Life Sciences 3	0-0-2	2
		Industrial Visit/Seminar	0-0-2	2
		Total		24

Semester : 4 Minimum Semester Credit Required : 24 Cumulative Semester Credit Required : 96				
Subject Type	Subject No.	Subject Name	L-T-P	Credits
		Physics IV	3-0-0	3
		Periodicity of Elements, Chemistry of s and p Block Elements, Noble gases	3-0-0	3
		Chemical Kinetics, Catalysis and Chemical Equilibrium	3-0-0	3
		Life Sciences IV	3-0-0	3
		Organic Chemistry	2-0-0	2
		Lab - 10 Inorganic Qualitative Analysis and Gravimetric Analysis	0-0-3	3
		Lab - 11 Physical Chemistry Lab	0-0-3	3
		Lab - 12 Life Sciences 4	0-0-2	2
		Industrial Visit/Seminar	0-0-2	2
		Total		24

Semester : 5 Minimum Semester Credit Required : 25 , Cumulative Semester Credit Required : 121				
Subject Type	Subject No.	Subject Name	L-T-P	Credits
		Organic Reactions of Carbonyl Compounds, Sulphur Containing Compounds	3-1-0	4

		Chemistry of d and f Block Elements	3-1-0	4
		Electrochemistry and Surface Chemistry	3-1-0	4
		Molecular Spectroscopy and Structure Elucidation	3-1-0	4
		Lab - 13 Organic Chemistry	0-0-3	3
		Lab - 14 Physical and Inorganic lab	0-0-3	3
		Lab - 15 Analytical Tools	0-0-3	3
		Total		25
Semester : 6	Minimum Semester Credit Required : 24 , Cumulative Semester Credit Required : 145			
Subject Type	Subject No.	Subject Name	L-T-P	Credits
		Hetreocycles, alkaloids, terpenes, drugs and pharmaceuticals	3-1-0	4
		Organometallic and Catalysis	3-1-0	4
		Quantum Chemistry	3-1-0	4
		Bioorganic and Bioinorganic Chemistry	3-1-0	4
		Chemistry Project	0-0-6	6
		Comprehensive Viva	0-0-2	2
		Total		24

Total Credits: 145