



B.Sc.(Hons) Chemistry Curriculum Scheme

Course Code	Course Name	L	T	P	Credit
SEMESTER-I					
05000101	Foundation Course in English	2	0	0	2
05000102	Environmental Science	3	0	0	3
05100103	Inorganic Chemistry-I (Atomic Structure and Chemical Bonding	3	0	2	4
05100104	Physical Chemistry-I (State of Matter and Ionic Equilibrium	3	0	2	4
05100105	Mechanics	3	0	2	4
05100106	Computational Skills	2	0	2	3
05100107	Indian Knowledge System-1	2	0	0	2
	TOTAL	18	0	8	22
SEMESTER-II					
5000201	Soft skills and Personality Development	2	0	0	2
05000202	Disaster Management	3	0	0	3
05000203	Universal Human values	2	0	0	2
05100203	Fundamentals of Organic Chemistry	3	0	2	4
05100204	Fundamental of Analytical Chemistry	3	0	2	4
05100205	Bio-inorganic Chemistry	3	0	2	4
05100206	Soil and Water analysis	2	0	2	3
	TOTAL	18	0	8	22
SEMESTER-III					
05100303	Organic Chemistry-I	3	0	2	4
05100304	Physical Chemistry-II	3	0	2	4



05100305	Inorganic Chemistry-II	3	0	2	4
05100306	Molecules of Life	3	0	0	3
05000307	Artificial Intelligence	2	0	2	3
05000301	Academic Writing	2	0	0	2
05000304	Indian Knowledge System-II	2	0	0	2
	TOTAL	18	0	8	22
SEMESTER-IV					
05100404	Organic Chemistry-II (Important Compounds and Rearrangements)	3	0	2	4
05100405	Physical Chemistry-III (Chemical Kinetics, Adsorption and Catalysis)	3	0	2	4
05100406	Inorganic Chemistry-III (Chemical Bonding-II and Redox Reactions)	3	0	2	4
05100407	Laboratory Safety and quality analysis of water	3	0	0	3
05100408	Corrosion and its prevention	2	0	2	3
5000401	Verbal Communication	2	0	0	2
05000402	Ayurveda and Nutrition	2	0	0	2
	TOTAL	18	0	8	22
SEMESTER-V					
05100504	Coordination Chemistry and Organometallic Compounds	3	0	2	4
05100505	Synthetic Strategies and Cyclic Stereochemistry	3	0	2	4
05100506	Colligative properties, ionic Equilibrium and Electrochemistry	3	0	2	4
05100507	Basics of Industrial Chemistry	3	0	2	4
05100508	Green Chemistry	3	0	0	3
05100509	Application of Computer in Chemistry	2	0	2	3
	TOTAL	17	0	10	22
SEMESTER-VI					
05100605	Spectroscopy techniques	3	0	2	4



05100606	Quantum Mechanics and Chemical Thermodynamics	3	0	2	4
05100607	Concepts of analytical Chemistry	3	0	2	4
05100608	Heterocyclic chemistry	3	0	2	4
05000601	Personality development and life skills	2	0	0	2
05100609	Summer Internship	0	0	8	4
	TOTAL	14	0	16	22
SEMESTER-VII					
05100701	Chemical Application of Group theory; Cluster compounds and Macrocycles	3	0	2	4
05100702	Concepts of Pharmaceutical chemistry	3	0	2	4
05100703	Pericyclic reactions and Organic Photochemistry	3	0	2	4
05100704	Statistical thermodynamics and polymer chemistry	3	0	2	4
05100705	Nanotechnology: Fundamentals and Applications	3	0	0	3
05100706	Fundamentals of Research Methodology	3	0	0	3
	TOTAL	18	0	8	22
SEMESTER-VIII					
05100801	Dissertation	0	0	24	12
	TOTAL	12	0	24	12