

M.Sc (Chemistry)													
Year	Course Code	Semester-I	L	T	P	U	Course Code	Semester-II	L	T	P	U	
I	CH410	Transition and Non-transition Metal Chemistry	3	1	0	3	CH420	Organic Reactions and Mechanisms	3	1	0	3	
	CH411	Physical Organic Chemistry	3	1	0	3	CH421	Chemical Dynamics and Electrochemistry	3	1	0	3	
	CH412	Inorganic Chemistry Laboratory - Analyses	0	0	4	4	CH422	Inorganic Reaction Mechanism and organometallics	3	1	0	3	
	CH413	Quantum Chemistry	3	1	0	3	CH423	Physical Chemistry Laboratory	0	0	4	4	
	CH414	Group Theory & Mathematics	3	1	0	3	CH424	Classical and Statistical Thermodynamics	3	1	0	3	
	CH415	Organic Chemistry Laboratory	0	0	4	4	CH425	Inorganic Chemistry Lab-Syntheses	0	0	4	4	
Total No of Credits			12	4	8	20	Total No of Credits			12	4	8	20
II	Semester-III						Semester-IV						
	CH510	Applications of Spectroscopy	3	1	0	3	CH551	Chemistry of Materials	3	1	0	3	
	CH511	Concepts in Organic Synthesis	3	1	0	3	CH552	Computational Chemistry	3	1	0	3	
	CH512	Bioinorganic Chemistry	3	1	0	3	CH553	Dissertation & Seminar	0	0	0	3	
	CH513	Polymer Chemistry	3	1	0	3	CHXXX	Elective -1	0	0	0	3	
	CH514	Instrumentation and computer applications lab	2	0	4	4	CHXXX	Elective -2	3	1	0	3	
	CH515	Organic chemistry lab: Synthesis	0	0	4	4	CHXXX	Elective -3	3	1	0	3	
Total No of Credits			14	4	8	20	Total No of Credits			12	4	0	18

List of Electives

CH 615	Advanced Organometallic Chemistry
CH 617	Advanced Quantum Chemistry
CH 625	Art in Organic Synthesis
CH 626	Modern methods and Reagents in Organic Synthesis
CH 628	Advanced Heterocyclic Chemistry
CH 630	Chemistry of Natural products
CH 633	Industrial Organic Chemistry
CH 649	Green methods in chemistry
CH 651	Pharmaceutical Chemistry
CH 654	Photochemistry and Asymmetric synthesis