

**M.Sc Organic CHEMISTRY**

**First Year**

Semester	Code	Title of the course	Hrs/week	No. of Credits	Core/Elective	Uni. Exams (Hours)	IA	Semester end exam	Total Marks
First	CHE-101	Inorganic Chemistry -I	4	4	Core	3	20	80	100
	CHE-102	Organic Chemistry-I	4	4	Core	3	20	80	100
	CHE-103	Physical Chemistry	4	4	Core	3	20	80	100
	CHE-104	Inorganic Practical-I	2	2	Practical	--	--	--	50
	CHE-105	Organic Practical-I	2	2	Practical	--	--	--	50
	CHE-106	Physical Practical-I	2	2	Practical	--	--	--	50
	Che-107	General Chemistry-I	2	2	Compul Foundat ion	3	10	40	50
	Che-108	HUMAN VALUES AND PROFESSIONAL ETHICS – I	4	4	Elective foundat ion	3	20	80	100
		<b>TOTAL</b>		<b>24</b>					<b>600</b>

Second	CHE-201	INORGANIC CHEMISTRY-II	4	4	Core	3	20	80	100
	CHE-202	ORGANIC CHEMISTRY-II	4	4	Core	3	20	80	100
	CHE-203	PHYSICAL CHEMISTRY-II	4	4	Core	4	--	--	100
	CHE-204P	INORGANIC CHEMISTRY	2	2	Practica	4	--	--	100
	CHE-205P	ORGANIC CHEMISTRY	2	2	Practica	3	20	80	100
	CHE-206P	PHYSICAL CHEMISTRY	2	2	Practica	3	20	80	100
	CHE-207	General Chemistry-II	2	2	CompulFo unda	3	20	80	100
	CHE-208	Human Values and Professional Ethics-I	4	4	Elective foundat				
		<b>TOTAL</b>		<b>24</b>					<b>600</b>

**M.Sc. ORGANIC CHEMISTRY**

**Second Year**

Semester	Code	Title of the course	Hrs/week	No. of Credits	Core/Elective	Uni. Exams (Hours)	IA	Semester end exam	Total Marks
Third	CHEOC-301	Organic Chemistry-III	4	4	core	3	20	80	100
	CHEOC-302	Organic Spectroscopy & Applications	4	4	core	3	20	80	100
	CHEOC-303	Organic Estimations	4	4	Pract	--		--	100
	CHEOC-304	Multistep preparations	4	4	Practice	--		---	100
	CHEOC-305 (related to subject)	A) In Organic Spectroscopy & Thermal Methods of Analysis b) Physical Chemistry iii c) Green Chemistry	4 4	4 4	Generic Electives:*	3 3	20 20	80 80	100 100
	CHEOC-306 other department	a) Spectral Techniques or b) Chromatographic Techniques	4 4	4 4	Open Elective	3	20 20	80 80	100 100
					<b>24</b>				<b>600</b>

**SEMESTER-IV**

Fourth	CHE OC-401	Organic Synthesis-I	4	4	core	3	20	80	100
	CHEOC-402	Organic Synthesis-II	4	4	core	3	20	80	100
	CHEOC-403	Spectral Identification of organic compounds	8	4	Practica	4		--	100
	CHEOC-404	Project work	8	4	Practica	4		---	100
	CHEOC-405 (related to subject)	a) Hetero Cycles & Natural products b) Bioinorganic, Bioorganic & Biophysical Chemistry c) Chemistry of Nanomaterials & Functional materials	4 4	4 4	Generic Elective	3 3	20 20	80 80	100 100
	CHEOC-406 other department	a) Drug chemistry or b) Electroanalytical Techniques	4 4	4 4	Open Elective	3 3	20 20	80 80	100 100
					<b>24</b>				<b>600</b>