

M.Sc (Chemistry with Specialization in Polymer Science)

Semester I								
S.N	Course	Code	Title	L	T	P	C	H
1	core		Advanced Probability and statistics	3	1	0	4	4
2	core		Advanced Organic Chemistry	3	1	0	4	4
3	core		Advanced Physical Chemistry	3	1	0	4	4
4	core		Advanced Inorganic chemistry	3	1	0	4	4
5	skill		Programming language C	3	1	0	4	4
6	core		Physical /Inorganic Chemistry Lab	0	0	4	2	4
7	core		Organic Chemistry Lab	0	0	2	1	2
8	skill		Programming lab	0	0	2	1	2
			core:19 skill:5	15	5	8	24	28

Semester II								
S.N	Course	Code	Title	L	T	P	C	H
1	core		Quantum chemistry	3	1	0	4	4
2	core		Chemical dynamics and surface chemistry	3	1	0	4	4
3	core		Industrial organic synthesis	3	1	0	4	4
4	core		Reaction mechanism and stereochemistry	3	1	0	4	4
5	core		Introduction to Polymer Science	3	1	0	4	4
6	Elective-1		Medicinal chemistry	3	0	0	3	3
			Photochemistry					
7	core		Chemistry lab	0	0	2	1	2
			Core:21, elective: 3	18	5	2	24	25

Semester III								
S.N	Course	Code	Title	L	T	P	C	H
1	core		Chemistry of High polymers	3	1	0	4	4
2	core		Properties and applications of Polymers	3	1	0	4	4
3	core		Polymer Synthesis					
4	core		Polymer Processing	3	1	0	4	4
5	core		Characterization techniques for polymers	3	1	0	4	4
8	Elective-2		Fiber technology	3	0	0	3	3
			Rubber Technology					
6	core		Polymer Synthesis Lab	0	0	2	1	2
7	core		Polymer Characterization Lab	0	0	2	1	2
			Core: 18, Elective: 3	15	4	4	21	23

Semester IV								
S.N	Course	Code	Title	L	T	P	C	H
1	core		Testing of Polymers	3	1	0	4	4
2	core		Polymer composites	3	1	0	4	4
3	Elective-3		Adhesives and sealants	3	0	0	3	3
			Foam Technology					
4	Elective-4		Surface coating Technology	3	0	0	3	3
			Polymers for Packaging Application					
5			Chemistry lab-2 (polymer)	0	0	2	1	2
6			Project	0	0	12	6	12
			Core: 8, Elective: 13	12	2	14	21	28

Total cred	90
core	66
Elective	19
Skill	5
	90