

DEPARTMENT OF POLYMER AND PROCESS ENGINEERING
M.Tech. (Polymer Science and Engineering)

[illegible]

Program Elective Courses M.Tech. (Polymer Science and Engineering)

Teaching Scheme					Contact Hours/Week			Exam Duration		Relative Weight (%)				
S. No.	Subject Code	Course Title	Subject Area	Credits	L	T	P	Theory	Practical	CWS	PRS	MTE	ETE	PRE
Program Elective-I														
1.	PEN-507	Advanced Engineering Mathematics	PEC	4	3	1	-	3	-	20-35	-	20-30	40-50	-
2.	PEN-509	Statistical Analysis	PEC	4	3	1	-	3	-	20-35	-	20-30	40-50	-
3.	PEN-511	Process Equipment Design	PEC	4	3	1	-	3	-	20-35	-	20-30	40-50	-
4.	PEN-513	Advanced Optimization Techniques	PEC	4	3	1	-	3	-	20-35	-	20-30	40-50	-
5.	PEN-515	Polymer Blends and Composites	PEC	4	3	1	-	3	-	20-35	-	20-30	40-50	-
Program Elective-II														
6.	PEN-517	Polymer Colloids	PEC	3	3	-	-	3	-	20-35	-	20-30	40-50	-
7.	PEN-519	Product Standardizations and Regulatory Standards in Polymers	PEC	3	3	-	-	3	-	20-35	-	20-30	40-50	-
8.	PEN-521	Molecular Modelling and Simulation	PEC	3	3	-	-	3	-	20-35	-	20-30	40-50	-
9.	PEN-523	Computer Aided Polymer Product Design	PEC	3	3	-	-	3	-	20-35	-	20-30	40-50	-
Program Elective-III, IV, V														
10.	PEN-506	Bio and Bio-medical Polymers	PEC	3	3	-	-	3	-	20-35	-	20-30	40-50	-
11.	PEN-508	Heat and Mass Transfer in Polymeric Materials	PEC	3	3	-	-	3	-	20-35	-	20-30	40-50	-
12.	PEN-510	Quality Management	PEC	3	3	-	-	3	-	20-35	-	20-30	40-50	-
13.	PEN-512	Functional Polymer	PEC	3	3	-	-	3	-	20-35	-	20-30	40-50	-
14.	PEN-514	High Performance and Conducting Polymers	PEC	3	3	-	-	3	-	20-35	-	20-30	40-50	-
15.	PEN-516	Polymer Film & Fibre Technology	PEC	3	3	-	-	3	-	20-35	-	20-30	40-50	-
16.	PEN-518	Polymer Degradation & Recycling	PEC	3	3	-	-	3	-	20-35	-	20-30	40-50	-
17.	PEN-520	Advanced Polymeric Technology	PEC	3	3	-	-	3	-	20-35	-	20-30	40-50	-
18.	PEN-522	Polymer Processing	PEC	3	3	-	2/2	3	-	15-30	20	15-25	30-40	-
19.	PEN-524	Polymer Reaction Engineering	PEC	3	3	-	2/2	3	-	15-30	20	15-25	30-40	-
20.	PEN-526	Advanced Process Control	PEC	3	3	-	2/2	3	-	15-30	20	15-25	30-40	-
21.	PEN-528	Polymeric Membrane Technology	PEC	3	3	-	2/2	3	-	15-30	20	15-25	30-40	-