

**DEPARTMENT OF PAPER TECHNOLOGY
INDIAN INSTITUTE OF TECHNOLOGY ROORKEE**

Program Code: **41** **M.Tech. (Pulp and Paper)**
 Department: **PP** **Department of Paper Technology**
 Year: **I**

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
Semester- I (Autumn)														
1.	PP-501	Pulping	PCC	4	3	1	2/2	3	-	20	20	20	40	-
2.	PP-503	Chemical Recovery Process	PCC	4	3	1	2/2	3	-	20	20	20	40	-
3.	PP-505	Paper Proprieties and Stock Preparation	PCC	4	3	1	2/2	3	-	20	20	20	40	-
4.		Program Elective-I	PEC	4	3	1	0	3	-	25	-	25	50	-
5.		Program Elective-II	PEC	3	3	0	2/2	3	-	20	20	20	40	-
		Total		19	15	4	4							
Semester-II (Spring)														
1.	PP-502	Washing and Bleaching	PCC	4	3	1	2/2	3	-	20	20	20	40	-
2.	PP-504	Paper Making	PCC	4	3	1	2/2	3	-	20	20	20	40	-
3.	PP-700	Seminar	SEM	2	0	0	2	-	-	-	-	-	100	-
4.		Programe Elective III	PEC	3	3	0	0	3	-	25	-	25	50	-
5.		Programe Elective IV	PEC	3	3	0	0	3	-	25	-	25	50	-
6.		Programe Elective-V	PEC	3	3	0	0	3	-	25	-	25	50	-
		Total		19	15	2	2							

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Program Code: **41** **M.Tech. (Pulp and Paper)**
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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
Semester- I (Autumn)														
1.	PP-701A	Dissertation Stage-I (to be continued next semester)	DIS	12	-	-	-	-	-	-	50	-	-	50
		Total		12										
Note: Students can take 1 or 2 audit courses as advised by the supervisor, if required.														
Semester-II (Spring)														
1.	PP-701B	Dissertation Stage-II (contd. From III semester)	DIS	18	-	-	-	-	-	-	50	-	-	50
		Total		18										

Summary				
Semester	1	2	3	4
Semester-wise Total Credits	19	19	12	18
Total Credits	68			

Program Elective Courses M.Tech. (Pulp and Paper)

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 Autumn Semester														
1.	PP-511	Modeling and Simulation	PEC	4	3	1	0	3	-	25	-	25	50	-
2.	PP-513	Process Optimization	PEC	4	3	1	0	3	-	25	-	25	50	-
3.	PP-515	Advance Numerical Methods and Statistics	PEC	4	3	1	0	3	-	25	-	25	50	-
Program Elective-II Autumn Semester														
4.	PP-521	Process Automation	PEC	3	3	0	2/2	3	-	20	20	20	40	-
5.	PP-523	Process Instrumentation and Control	PEC	3	3	0	2/2	3	-	20	20	20	40	-
6.	PP-525	Computer Based Control Systems	PEC	3	3	0	2/2	3	-	20	20	20	40	-
Program Elective-III Spring Semester														
7.	PP-512	Environmental Management	PEC	3	3	0	0	3	-	25	-	25	50	-
8.	PP-514	System Closure	PEC	3	3	0	0	3	-	25	-	25	50	-
9.	PP-516	Chemical Recovery Process Calculations	PEC	3	3	0	0	3	-	25	-	25	50	-
Program Elective-IV Spring Semester														
10.	PP-522	Paper Making Chemistry	PEC	3	3	0	0	3	-	25	-	25	50	-
11.	PP-524	Electro kinetics in Paper Making	PEC	3	3	0	0	3	-	25	-	25	50	-
12.	PP-526	Bio Process and its application	PEC	3	3	0	0	3	-	25	-	25	50	-
13.	PP-528	Pulp Mill Calculations	PEC	3	3	0	0	3	-	25	-	25	50	-
Program Elective-V Spring Semester														
14.	PP-532	Printing and Converting Operations	PEC	3	3	0	0	3	-	25	-	25	50	-
15.	PP-534	Coated and Specialty Papers	PEC	3	3	0	0	3	-	25	-	25	50	-
16.	PP-536	Packaging Papers and Boards	PEC	3	3	0	0	3	-	25	-	25	50	-
17.	PP-538	Paper Mill Calculations	PEC	3	3	0	0	3	-	25	-	25	50	-