

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

Program Code: **42** **M.Tech. (Packaging Technology)**
 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-541	Packaging Principles, Processes and Sustainability	PCC	3	3	0	0	3	0	25	-	25	50	-
2.	PP-543	Packaging Materials	PCC	5	4	0	2	3	0	15	25	20	40	-
3.	PP-545	Printing Technology	PCC	3	3	0	0	3	0	25	-	25	50	-
4.	PP-547	Converting Processes for Packaging	PCC	3	3	0	0	3	0	25	-	25	50	-
5.		Program Elective-I	PEC	4	3	1	0	3	0	25	-	25	50	-
		Total		18	13	-	2							
Semester-II (Spring)														
1.	PP-544	Package Performance	PCC	3	3	0	2/2	3	0	20	20	20	40	-
2.	PP-546	Package Design	PCC	3	2	0	2	2	0	15	25	20	40	-
3.	PP-700	Seminar	SEM	2	0	0	4	0	0	-	-	-	100	-
4.		Program Elective-II	PEC	3	3	0	0	-	0	-	-	-	-	-
5.		Program Elective-III	PEC	3	3	0	0	-	0	-	-	-	-	-
6.		Program Elective-IV	PEC	3	3	0	0	-	0	-	-	-	-	-
7.		Program Elective-V	PEC	3	3	0	0	-	0	-	-	-	-	-
		Total		20	5	0	3							

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Program Code: **42** **M.Tech. (Packaging Technology)**
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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	18	20	12	18
Total Credits	68			

Program Elective Courses M.Tech. (Packaging Technology)

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.	PP-551	Application of Modeling and Simulation in Packaging	PEC	4	3	0	2	3	-	15	25	20	40	-
2.	PP-553	Statistical Analysis and Design of Experiments	PEC	4	3	1	0	3	-	25	-	25	50	-
3.	PP-515	Advanced Numerical Methods and Statistics	PEC	4	3	1	0	3	-	25	-	25	50	-
Program Elective-II														
4.	PP-561	Business Law	PEC	3	3	0	0	3	0	25	-	25	50	-
5.	PP-563	Logistics and Supply Chain Management	PEC	3	3	0	0	2	0	25	-	25	50	-
6.	PP-565	Industrial Design	PEC	3	2	0	2	-	0	15	25	20	40	-
7.	PP-567	Economics of Packaging	PEC	3	3	0	0	-	0	25	-	25	50	-
Program Elective-III, IV, V														
8.	PP-552	Smart Packaging	PEC	3	3	0	0	3	-	25	-	25	50	-
9.	PP-554	Optoelectronics in Packaging	PEC	3	3	0	0	3	-	25	-	25	50	-
10.	PP-556	Robotics and Automated Packaging	PEC	3	3	0	0	3	-	25	-	25	50	-
11.	PP-558	Food and Pharmaceutical Packaging	PEC	3	3	0	0	3	-	25	-	25	50	-
12.	PP-560	Hazardous Material Packaging	PEC	3	3	0	0	3	-	25	-	25	50	-
13.	PP-562	Industrial Packaging	PEC	3	3	0	0	3	-	25	-	25	50	-
14.	PP-564	Sustainable Packaging and Life Cycle Analysis	PEC	3	3	0	0	3	-	25	-	25	50	-
15.	PP-566	Lamination and Functional Coatings	PEC	3	3	0	0	3	-	25	-	25	50	-
16.	PP-568	Nanotechnology Applications in Packaging	PEC	3	3	0	0	3	-	25	-	25	50	-
17.	PP-570	Advanced Analytical Techniques	PEC	3	3	0	2/2	3	-	20	20	20	40	-