

7. STUDY AND EVALUATION SCHEME FOR DIPLOMA PROGRAMME IN PLASTIC TECHNOLOGY

FIRST SEMESTER

Sr. No	Subject	L T P Hrs/week			EVALUATION SCHEME						Total Marks
					Internal Assessment		External Assessment (Examination)				
							Written Paper		Practical		
					Theory	Practical	Max. Marks	Max. Marks	Max. Marks	Hrs	
1.1*	Communication Skills -I	3	-	2	25	25	100	3	50	2	200
1.2*	Applied Mathematics-I	4	1	-	50	-	100	3	-	-	150
1.3*	Applied Physics – I	4	-	2	25	25	100	3	50	3	200
1.4*	Applied Chemistry – I	2	-	2	25	25	100	3	50	3	200
1.5*	Basics of Information Technology	-	-	4	-	50	-	-	100	3	150
1.6*	Engineering Drawing-I	-	-	6	-	50	100	3	25 (Viva)	2	175
1.7*	General Workshop Practice - I	-	-	6	-	50	-	-	+100	3	150
Student Centred Activities #		-	-	4	-	25	-	-	-	-	25
Total		13	1	26	125	250	500		375		1250

+ Including 25 marks for Viva-voce

* Common with other diploma programmes

Student Centred Activities will comprise of various co-curricular activities like games, hobby clubs, seminars, declamation contests, extension lectures, field visits, NCC, NSS and cultural activities etc.

SECOND SEMESTER (PLASTIC TECHNOLOGY)

Sr. No	Subject	L T P Hrs/week			EVALUATION SCHEME						Total Marks
					Internal Assessment		External Assessment (Examination)				
					Theory	Practical	Written Paper		Practical		
					Max. Marks	Max. Marks	Max. Marks	Hrs	Max. Marks	Hrs	
2.1*	Communication Skills –II	3	-	2	25	25	100	3	50	2	200
2.2*	Applied Mathematics-II	4	1	-	50	-	100	3	-	-	150
2.3*	Engineering Drawing - II	-	-	6	-	50	100	3	25 (Viva)	2	175
2.4*	General Workshop Practice-II	-	-	6	-	50	-	-	+100	3	150
2.5	Polymer Chemistry	3	-	2	25	25	100	3	50	3	200
2.6	Introduction to Plastic Technology	3	-	-	50	-	100	3	-	-	150
2.7	Orientation to Polymer Engineering	3	-	-	50	-	100	3	-	-	150
Student Centred Activities #		-	-	7	-	25	-	-	-	-	25
Total		16	1	23	200	175	600		225		1200

+ Including 25 marks for Viva-voce

* Common with other diploma programmes

Student Centred Activities will comprise of various co-curricular activities like games, hobby clubs, seminars, declamation contests, extension lectures, field visits, NCC, NSS and cultural activities etc.

THIRD SEMESTER (PLASTIC TECHNOLOGY)

Sr. No	Subject	L T P Hrs/week			EVALUATION SCHEME						Total Marks
					Internal Assessment		External Assessment (Examination)				
					Theory	Practical	Written Paper		Practical		
					Max. Marks	Max. Marks	Max. Marks	Hrs	Max. Marks	Hrs	
3.1	Engineering Fundamentals	5	-	2	25	25	100	3	50	3	200
3.2	Unit Operations-I	3	1	4	25	25	100	3	50	3	200
3.3	Mechanics of Solids	3	-	2	25	25	100	3	50	3	200
3.4	Polymer Science	3	-	2	25	25	100	3	50	3	200
3.5	Polymeric Materials and Properties	3	-	-	50	-	100	3	-	-	150
3.6	AutoCAD	-	-	6	-	50	-	-	100	3	150
Student Centred Activities #		-	-	6	-	25	-	-	-	-	25
		17	1	22	150	175	500	-	300	-	1125

Student Centred Activities will comprise of various co-curricular activities like games, hobby clubs, seminars, declamation contests, extension lectures, field visits, NCC, NSS and cultural activities etc.

FOURTH SEMESTER (PLASTIC TECHNOLOGY)

Sr. No	Subject	L T P Hrs/week			EVALUATION SCHEME						Total Marks
					Internal Assessment		External Assessment (Examination)				
					Theory	Practical	Written Paper		Practical		
					Max. Marks	Max. Marks	Max. Marks	Hrs	Max. Marks	Hrs	
4.1	Unit Operations-II	3	1	4	25	25	100	3	50	3	200
4.2	Design of Dies and Moulds - I	4	-	2	25	25	100	3	50	3	200
4.3	Engineering & Speciality Polymers	3	-	-	50	-	100	3	-	-	150
4.4	Plastic Processing Techniques-I	4	-	4	25	25	100	3	50	3	200
4.5	Process Instrumentation **	3	-	3	25	25	100	3	50	3	200
4.6	Minor Project Work	-	-	4	-	100	-	-	100	3	200
Student Centred Activities #		-	-	5	-	25	-	-	-	-	25
Total		17	1	22	150	225	500	-	300	-	1175

** Common with Chemical Engineering and Chemical Engineering (Pulp and Paper)

Student Centred Activities will comprise of various co-curricular activities like games, hobby clubs, seminars, declamation contests, extension lectures, field visits, NCC, NSS and cultural activities etc.

FIFTH SEMESTER (PLASTIC TECHNOLOGY)

Sr. No	Subject	L T P Hrs/week			EVALUATION SCHEME						Total Marks
					Internal Assessment		External Assessment (Examination)				
					Theory	Practical	Written Paper		Practical		
					Max. Marks	Max. Marks	Max. Marks	Hrs	Max. Marks	Hrs	
5.1	Plastic Processing Techniques-II	4	-	4	25	25	100	3	50	3	200
5.2	Industrial Management *	3	-	-	50	-	100	3	-	-	150
5.3	Computer Aided Mould Design	-	-	4	-	50	-	-	100	3	150
5.4	Design of Dies and Moulds - II	4	-	2	25	25	100	3	50	3	200
5.5	Plastic Testing and Quality Control	3	-	4	25	25	100	3	50	3	200
5.6	Compounding of Polymers	4	-	-	50	-	100	3	-	-	150
5.7	Polymer Product Design	3	-	-	50	-	100	3	-	-	150
Student Centred Activities #		-	-	5	-	25	-	-	-	-	25
Total		21	-	19	225	150	600	-	250	-	1225

* Common with other diploma programmes

Student Centred Activities will comprise of various co-curricular activities like games, hobby clubs, seminars, declamation contests, extension lectures, field visits, NCC, NSS and cultural activities etc.

SIXTH SEMESTER (PLASTIC TECHNOLOGY)

Sr. No	Subject	L T P Hrs/week			EVALUATION SCHEME						Total Marks
					Internal Assessment		External Assessment (Examination)				
					Theory	Practical	Written Paper		Practical		
					Max. Marks	Max. Marks	Max. Marks	Hrs	Max. Marks	Hrs	
6.1	Environment and Pollution in Plastic Industry	3	-	2	25	25	100	3	50	3	200
6.2	Elective +	3	-	-	50	-	100	3	-	-	150
6.3	Plastic Processing Techniques-III	4	-	4	25	25	100	3	50	3	200
6.4	Entrepreneurship Development & Management *	3	-	-	50	-	100	3	-	-	150
6.5	Maintenance of Plastic Processing Machines	4	-	4	25	25	100	3	50	3	200
6.6	Major Project Work	-	-	8	-	100	-	-	200	3	300
Student Centred Activities #		-	-	5	-	25	-	-	-	-	25
Total		17	-	23	175	200	500	-	350	-	1225

* Common with other diploma programmes

+ Reinforced Plastics/Rubber Technology/Adhesives and Coating Technology

Student Centred Activities will comprise of various co-curricular activities like games, hobby clubs, seminars, declamation contests, extension lectures, field visits, NCC, NSS and cultural activities etc.