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

FIRST SEMESTER

Sr. No	Subject	STUDY SCHEME Hrs/week			EVALUATION SCHEME						Total Marks
					Internal Assessment		External Assessment (Examination)				
					Theory	Practical	Written Paper		Practical		
		L	T	P	Max. Marks	Max. Marks	Max. Marks	Hrs	Max. Marks	Hrs	
1.1*	Communication Skills - I	3	-	2	25	25	100	3	50	2	200
1.2*	Applied Mathematics - I	5	-	-	50	-	100	3	-	-	150
1.3*	Applied Physics – I	4	-	2	25	25	100	3	50	3	200
1.4*	Applied Chemistry – I	3	-	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		-	-	3	-	25	-	-	-	-	25
Total		15	-	25	125	250	500	-	375	-	1250

***** Common with other diploma programmes

\+ Includes 25 marks for Viva-voce

\# Student Centred Activities will comprise of co-curricular activities like extension lectures, library studies, games, hobby clubs e.g. photography, painting, singing, seminars, declamation contests, educational field visits, N.C.C., NSS, Cultural Activities, Civil Defence/Disaster Management activities etc.

SECOND SEMESTER (PLASTIC TECHNOLOGY)

Sr. No	Subject	STUDY SCHEME			EVALUATION SCHEME						Total Marks
					Internal Assessment		External Assessment (Examination)				
					Theory	Practical	Written Paper		Practical		
		Hrs/week			Max. Marks	Max. Marks	Max. Marks	Hrs	Max. Marks	Hrs	
		L	T	P							
2.1*	Communication Skills – II	3	-	2	25	25	100	3	50	2	200
2.2*	Applied Mathematics - II	5	-	-	50	-	100	3	-	-	150
2.3*	Applied Physics – II	4	-	2	25	25	100	3	50	3	200
2.4*	Applied Chemistry – II	3	-	2	25	25	100	3	50	3	200
2.5**	Applied Mechanics	3	-	2	25	25	100	3	50	3	200
2.6*	Engineering Drawing - II	-	-	6	-	50	100	3	25 (Viva)	2	175
2.7*	General Workshop Practice - II	-	-	6	-	50	-	-	+100	3	150
#	Student Centred Activities	-	-	2	-	25	-	-	-	-	25
Total		18	-	22	150	225	600	-	325	-	1300

***** Common with other diploma programmes

** Common with diploma programmes in Mechanical Engineering and Civil Engineering

\+ Includes 25 marks for Viva-voce

\# Student Centred Activities will comprise of co-curricular activities like extension lectures, library studies, games, hobby clubs e.g. photography, painting, singing, seminars, declamation contests, educational field visits, N.C.C., NSS, Cultural Activities, Civil Defence/Disaster Management activities etc.

THIRD SEMESTER: PLASTIC TECHNOLOGY

Sr. No	Subject	L	T	P	EVALUATION SCHEME						Total Marks
		Hrs/week			Internal Assessment		External Assessment (Examination)				
					Theory	Practical	Written Paper		Practical		
					Max. Marks	Max. Marks	Max. Marks	Hrs	Max. Marks	Hrs	
3.1*	Engineering Fundamentals	4	-	2	25	25	100	3	50	3	200
3.2**	Strength of Materials	4	-	2	25	25	100	3	50	3	200
3.3	Viscous Flow of Fluids	3	-	4	25	25	100	3	50	3	200
3.4	Polymer Science and Technology - I	3	-	-	25	-	100	3	-	-	125
3.5	Plastic Materials and Properties – I	3	-	-	25	-	100	3	-	-	125
3.6*	Computer Aided Drafting	-	-	3	-	50	-	-	50	3	100
3.7***	General Workshop Practices-III	-	-	6	-	50	-	-	100	3	150
# Student Centered Activities		-	-	6	-	25	-	-	-	-	25
		17	**-**	**23**	**125**	**200**	**500**	**-**	**300**	**-**	**1125**

***** Common with diploma programmes in Chemical Engineering (spl. in Paint Technology), Chemical Engineering (spl. in Polymer Engineering) and Rubber Technology

****** Common with diploma programmes in Mechanical Engineering, Chemical Engineering (spl. in Polymer Engineering) and Rubber Technology.

******* Common with diploma programme in Rubber Technology.

SCA will comprise of co-curricular activities like extension lectures, library studies, games, hobby clubs e.g. photography, painting, singing, seminars, declamation contests, educational field visits, N.C.C., NSS, Cultural Activities, Civil Defence/Disaster Management activities etc.

FOURTH SEMESTER: PLASTIC TECHNOLOGY

Sr. No	Subject	L	T	P	EVALUATION SCHEME						Total Marks
		Hrs/week			Internal Assessment		External Assessment (Examination)				
					Theory	Practical	Written Paper		Practical		
					Max. Marks	Max. Marks	Max. Marks	Hrs	Max. Marks	Hrs	
4.1	Plastic Processing Techniques-I	4	-	4	25	25	100	3	50	3	200
4.2	Plastic Testing, Characterization and Quality Control	3	-	3	25	25	100	3	50	3	200
4.3	Fundamentals of Chemical Engineering	4	-	4	25	25	100	3	50	3	200
4.4	Polymer Science and Technology - II	4	-	3	25	25	100	3	50	-	200
4.5	Plastic Materials and Properties –II	3	-	-	25	-	100	3	-	-	125
4.6	Computer Aided Mold and Die Design	-	-	3	-	50	-	-	100	3	150
# Student Centered Activities		-	-	5	-	25	-	-	-	-	25
Total		**18**	**-**	**22**	**125**	**175**	**500**	**-**	**300**	**-**	**1100**

SCA will comprise of co-curricular activities like extension lectures, library studies, games, hobby clubs e.g. photography, painting, singing, seminars, declamation contests, educational field visits, N.C.C., NSS, Cultural Activities, Civil Defence/Disaster Management activities etc..

Industrial Training

After examination of 4th Semester, the students will go for training in a relevant industry/field organisation for a minimum period of 4 weeks. He/She will be evaluated by his/her training officer in the industry/ organization (to be assigned in 5th semester).

FIFTH SEMESTER: PLASTIC TECHNOLOGY

S. 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	
-	Industrial Training	-	-	-	-	50	-	-	50	3	100
5.1	Plastic Processing Techniques-II	4	-	4	25	25	100	3	50	3	200
5.2**	Design of Dies and Moulds – I	4	-	4	25	25	100	3	50	3	200
5.3	Maintenance of Plastic Processing Machinery	3	-	2	25	25	100	3	50	3	200
5.4	Compounding and Formulation of Plastics	4	-	4	25	25	100	3	50	3	200
5.5*	Employability Skills-1	-	-	2	-	25	-	-	50	3	75
5.6*	Environmental Education	3	-	-	25	-	100	3	-	-	125
# Student Centered Activities		-	-	6	-	25	-	-	-	-	25
Total		**18**	**-**	**22**	**125**	**200**	**500**	**-**	**300**	**-**	**1125**

* Common with other diploma programmes.

** Common with diploma programme in Chemical Engineering (Spl. in Polymer Engineering).

\# SCA will comprise of co-curricular activities like extension lectures, library studies, games, hobby clubs e.g. photography, painting, singing, seminars, declamation contests, educational field visits, N.C.C., NSS, Cultural Activities, Civil Defence/Disaster Management activities etc.

SIXTH SEMESTER: PLASTIC TECHNOLOGY

S. 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	Plastic Processing Techniques-III	4	-	4	25	25	100	3	50	3	200
6.2**	Design of Dies and Molds – II	3	-	4	25	25	100	3	50	3	200
6.3**	Plastic Product Design	4	-	-	25	-	100	3	-	-	125
6.4	Pollution Control in Plastic Industry	3	-	2	25	25	100	3	50	3	200
6.5*	Employability Skills-II	-	-	2	-	25	-	-	50	3	75
6.6*	Entrepreneurship Development and Management	3	-	-	25	-	100	3	-	-	125
6.7	Project Work	-	-	5	-	100	-	3	100	-	200
# Student Centered Activities		-	-	6	-	25	-	-	-	-	25
Total		**17**	**-**	**23**	**125**	**225**	**500**	**-**	**300**	**-**	**1150**

***** Common with other diploma programmes.

** Common with diploma programme in Chemical Engineering (Spl. in Polymer Engineering).

SCA will comprise of co-curricular activities like extension lectures, library studies, games, hobby clubs e.g. photography, painting, singing, seminars, declamation contests, educational field visits, N.C.C., NSS, Cultural Activities, Civil Defence/Disaster Management activities etc..