THIRD SEMESTER (Chemical Engineering)

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							
3.1 *	Fluid Flow	4	-	3	25	25	100	3	50	3	200
3.2 **	Mechanical Operations	3	-	3	25	25	100	3	50	3	200
3.3 **	Chemical Process Calculations	4	-	-	25	-	100	3	-	-	125
3.4	Engineering Materials	4	-	-	25	-	100	3	-	-	125
3.5	Heat Transfer-I	4	-	3	25	25	100	3	50	3	200
3.6	Basics of Electrical and Electronics Engineering	4	-	3	25	25	100	3	50	3	200
	SCA	-	-	5	-	25	-	-	-	-	25
		-	-	-	-	-	-	-	-	-	-
	Total	**23**	**-**	**17**	**150**	**125**	**600**	**-**	**200**	**-**	**1075**

** Common with Diploma Programme in Chemical Engineering (Pulp and Paper)

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.

FOURTH SEMESTER (Chemical Engineering)

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							
4.1	Mass Transfer-I	4	-	3	25	25	100	3	50	3	200
4.2 **	Chemical Engineering Thermodynamics	4	-	-	25	-	100	3	-	-	125
4.3	Heat Transfer-II	4	-	3	25	25	100	3	50	3	200
4.4 **	Chemical Process Industries	4	-	3	25	25	100	3	50	3	200
4.5	Polymer Technology	4	-	-	25	-	100	3	-	-	125
4.6	Energy Technology	4	-	-	25	-	100	3	-	-	125
	SCA	-	-	7	-	25	-	-	-	-	25
	Total	**24**	**-**	**16**	**150**	**100**	**600**	**-**	**150**	**-**	**1000**

** Common with Diploma Programme in Chemical Engineering (Pulp and Paper)

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.

Industrial Training - After examination of 4th Semester, the students shall go for training in a relevant industry/field organization for a minimum period of one month and shall prepare a diary. It shall be evaluated during 5th semester by his/her teacher for 50 marks. The students shall also prepare a report at the end of training and shall present it in a seminar, which will be evaluated for another 50 marks. This evaluation will be done by HOD and lecturer incharge – training in the presence of one representative from training organization.

FIFTH SEMESTER (Chemical Engineering)

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							
	Industrial Training	-	-	-	-	50	-	-	50	-	100
5.1 *	Employability Skills I	-	-	2	-	25	-	-	50	-	75
5.2 *	Environmental Education	3	-	-	25	-	100	3	-	-	125
5.3 **	Chemical Reaction Engineering	4	-	-	25	-	100	3	-	-	200
5.4	Mass Transfer-II	4	-	3	25	25	100	3	50	3	125
5.5	Petroleum and Petrochemical Technology	4	-	3	25	25	100	3	50	3	200
5.6 **	Computer Applications in Chemical Industry	-	-	6	-	50	-	-	100	3	150
5.7	Plant Safety	3	-	-	25	-	100	3	-	-	125
	SCA	-	-	8	-	25	-	-	-	-	25
	Total	**18**	**-**	**22**	**125**	**200**	**500**	**-**	**300**	**-**	**1125**

***** Common with other Diploma Programmes

** Common with Diploma Programme in Chemical Engineering (Pulp and Paper)

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.

SIXTH SEMESTER (Chemical Engineering)

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							
6.1 *	Employability Skills-II	-	-	2	-	25	-	-	50	3	75
6.2 *	Management and Entrepreneurship Development	3	-	-	25	-	100	3	-	-	125
6.3 **	Process Plant Utilities	4	-	-	25	-	100	3	-	-	125
6.4 **	Process Instrumentation and Control	4	-	3	25	25	100	3	50	3	200
6.5 **	Pollution Control in Chemical Process Industry	4	-	3	25	25	100	3	50	3	200
6.6	Paint Technology	4	-	-	25	-	100	3	-	-	125
6.7	Major Project Work	-	-	8	-	50	-	-	100	3	150
	SCA	-	-	5	-	25	-	-	-	-	25
	Total	**19**	**-**	**21**	**125**	**150**	**500**	**-**	**250**	**-**	**1025**

***** Common with other Diploma Programmes

** Common with Diploma Programme in Chemical Engineering (Pulp and Paper)

\+ 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.