

7. STUDY AND EVALUATION SCHEME FOR DIPLOMA PROGRAMME IN CHEMICAL ENGINEERING

FIRST SEMESTER

Sr. No	Subject	L T P Hrs/week			EVALUATION SCHEME						Total Marks
					Internal Assessment		External Assessment (Examination)				
							Theory	Practical	Written Paper		
					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	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 (CHEMICAL ENGINEERING)

Sr. No	Subject	L T P Hrs/week			EVALUATION SCHEME						Total Marks
					Internal Assessment		External Assessment (Examination)				
							Theory	Practical	Written Paper		
					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*	Applied Chemistry – II	2	-	2	25	25	100	3	50	3	200
2.4*	Engineering Drawing - II	-	-	6	-	50	100	3	25 (Viva)	2	175
2.5*	General Workshop Practice-II	-	-	6	-	50	-	-	+100	3	150
2.6**	Engineering Materials	3	-	-	50	-	100	3	-	-	150
2.7	Introduction to Chemical Engineering	3	1	-	50	-	100	3	-	-	150
Student Centred Activities #		-	-	7	-	25	-	-	-	-	25
Total		15	2	23	200	175	600		225		1200

+ Including 25 marks for Viva-voce

* Common with other diploma programmes

** Common with chemical Engineering (Pulp and Paper)

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THIRD SEMESTER (CHEMICAL ENGINEERING)

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**	Fluid Flow	3	-	3	25	25	100	3	50	3	200
3.2**	Mechanical Operations	3	-	3	25	25	100	3	50	3	200
3.3**	Industrial Chemical Calculations	3	2	-	50	-	100	3	-	-	150
3.4*	General Engineering	4	-	2	25	25	100	3	50	3	200
3.5**	Heat Transfer - I	3	1	3	25	25	100	3	50	3	200
3.6**	Industrial Process Equipments	3	1	-	25	25	100	3	50	3	200
Student Centred Activities #		-	-	6	-	25	-	-	-	-	25
Total		19	4	17	175	150	600	-	250	-	1175

* Common with other diploma programmes

** Common with Chemical Engineering (Pulp and Paper)

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FOURTH SEMESTER (CHEMICAL ENGINEERING)

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**	Mass Transfer – I	3	1	3	25	25	100	3	50	3	200
4.2	Engineering Thermodynamics	3	1	-	50	-	100	3	-	-	150
4.3	Reaction Engineering	3	-	3	25	25	100	3	50	3	200
4.4**	Process Instrumentation	3	-	3	25	25	100	3	50	3	200
4.5**	Heat Transfer – II	3	1	3	25	25	100	3	50	3	200
4.6	Minor Project Work	-	-	3	-	100	-	-	100	3	200
Student Centred Activities #		-	-	7	-	25	-	-	-	-	25
Total		15	3	22	150	225	500	-	300	-	1175

** Common with Chemical Engineering (Pulp and Paper)

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FIFTH SEMESTER (CHEMICAL ENGINEERING)

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	
5.1	Chemical Process Industries	4	-	3	25	25	100	3	50	3	200
5.2**	Mass Transfer – II	3	1	3	25	25	100	3	50	3	200
5.3	Process Equipment Drawings	-	-	6	-	50	-	-	100	3	150
5.4*	Industrial Management	3	-	-	50	-	100	3	-	-	150
5.5	Elective – I ##	4	-	-	50	-	100	3	-	-	150
5.6**	Computer Application in Chemical Industry	-	-	6	-	50	-	-	100	3	150
Student Centred Activities #		-	-	7	-	25	-	-	-	-	25
Total		14	1	25	150	175	400		300		1025

* Common with other diploma programmes

** Common with chemical Engineering (Pulp and Paper)

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Paint Technology/Sugar Technology/Food Technology

SIXTH SEMESTER (CHEMICAL ENGINEERING)

Sr. No	Subject	L T P Hrs/week			EVALUATION SCHEME						Total Marks
					Internal Assessment		External Assessment (Examination)				
							Written Paper		Practical		
					Theory	Practical	Written Paper		Practical		
Max. Marks	Max. Marks	Max. Marks	Hrs	Max. Marks	Hrs						
6.1*	Entrepreneurship Development and Management	3	-	-	50	-	100	3	-	-	150
6.2**	Process Utilities	3	-	-	50	-	100	3	-	-	150
6.3	Fertilizer Technology	4	-	-	50	-	100	3	-	-	150
6.4**	Environment Engineering and Safety	3	-	2	25	25	100	3	50	3	200
6.5	Electives – II ##	4	-	-	50	-	100	3	-	-	150
6.6	Agro Based Industries	4	-	-	50	-	100	3	-	-	150
6.7	Petro Chemicals	4		-	50	-	100	3	-	-	150
6.8	Major Project Work	-		8	-	100	-	-	200	3	300
Student Centred Activities #		-	-	5	-	25	-	-	-	-	25
Total		25	-	15	325	150	700		250		1425

* Common with other diploma programmes

** Common with 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.

Polymer Technology/Paper Technology/Alternate Energy Sources