

8. STUDY AND EVALUATION SCHEME FOR DIPLOMA PROGRAMME IN GENERAL ENGINEERING

FIRST SEMESTER

Sr. No	Subject	STUDY SCHEME			EVALUATION SCHEME						Total Marks
					Internal Assessment		External Assessment (Examination)				
		Hrs/week			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 (GENERAL ENGINEERING)

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

Sr. No	Subject	STUDY SCHEME			EVALUATION SCHEME						Total Marks
					Internal Assessment		External Assessment (Examination)				
		Hrs/week			Theory	Practical	Written Paper		Practical		
		L	T	P	Max. Marks	Max. Marks	Max. Marks	Hrs	Max. Marks	Hrs	
3.1**	Strength of Materials	4	-	2	25	25	100	3	50	3	200
3.2**	Thermodynamics	4	-	2	25	25	100	3	50	3	200
3.3**	Workshop Technology – I	3	-	-	50	-	100	3	-	-	150
3.4	Basics of Civil Engineering	4	-	3	25	25	100	3	50	3	200
3.5**	Machine Drawing	-	-	6	-	50	100	3	25	2	175
3.6**	Basics of Electrical and Electronics Engineering	3	-	2	25	25	100	3	50	3	200
Student Centred Activities#		-	-	7	-	25	-	-	-	-	25
Total		18	-	22	150	175	600	-	225	-	1150

** Common with diploma programme in Mechanical Engineering

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 (GENERAL ENGINEERING)

Sr. No	Subject	STUDY SCHEME			EVALUATION SCHEME						Total Marks
					Internal Assessment		External Assessment (Examination)				
		Hrs/week			Theory	Practical	Written Paper		Practical		
		L	T	P	Max. Marks	Max. Marks	Max. Marks	Hrs	Max. Marks	Hrs	
4.1 **	Materials and Metallurgy	3	-	2	25	25	100	3	50	3	200
4.2 **	Hydraulics and Hydraulic Machines	3	-	2	25	25	100	3	50	3	200
4.3 **	Workshop Technology – II	3	-	-	50	-	100	3	-	-	150
4.4 *	Electrical Machines	3	-	3	25	25	100	3	50	3	200
4.5 ***	Electronic Devices and Circuits	4	-	2	25	25	100	3	50	3	200
4.6 **	Workshop Practice – I	-	-	9	-	50	-	-	100	3	150
# Student Centred Activities Including Personality Development Camp		-	-	6	-	25	-	-	-	-	25
Total		16	-	24	150	175	500	-	300	-	1125

* Common with Electrical Engineering

** Common with diploma programme in Mechanical Engineering in Semester-3

*** Common with diploma programme in Electronics and Communication 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.

Industrial Training - After examination of 4th Semester, the students shall go for training in a relevant industry/field organization for a minimum period of 6 weeks 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 (GENERAL ENGINEERING)

Sr. No	Subject	STUDY SCHEME			EVALUATION SCHEME						Total Marks
					Internal Assessment		External Assessment (Examination)				
		Hrs/week			Theory	Practical	Written Paper		Practical		
		L	T	P	Max. Marks	Max. Marks	Max. Marks	Hrs	Max. Marks	Hrs	
Industrial Training		-	-	-	-	25	-	-	50	3	75
5.1 *	Employability Skills - I	-	-	2	-	25	-	-	50	3	75
5.2 *	Environmental Education	3	-	-	25	-	100	3	-	-	125
5.3	CAD/CAM	3	-	2	25	25	100	3	50	3	200
5.4 +	Electronic Instruments and Measurement	3	-	3	25	25	100	3	50	3	200
5.5 ***	Digital Electronics and Microprocessors	5	-	3	25	25	100	3	50	3	200
5.6	Basics of Refrigeration and Air Conditioning	2	-	-	50	-	100	3	-	-	150
5.7	Workshop Practice – II	-	-	9	-	50	-	-	100	3	150
# Student Centred Activities Including Entrepreneurship Development Camp		-	-	5	-	25	-	-	-	-	25
Total		16	-	24	150	200	500	-	350	-	1200

* Common with other diploma programmes

** Common with diploma programme in Mechanical Engineering in Semester-4

*** Common with diploma programme in Electrical Engineering

+ Common with diploma programme in Electronics and Communication Engineering

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 (GENERAL ENGINEERING)

Sr. No	Subject	STUDY SCHEME			EVALUATION SCHEME						Total Marks
					Internal Assessment		External Assessment (Examination)				
		Hrs/week			Theory	Practical	Written Paper		Practical		
		L	T	P	Max. Marks	Max. Marks	Max. Marks	Hrs	Max. Marks	Hrs	
6.1 *	Employability Skills - II	-	-	2	-	25	-	-	50	3	75
6.2 *	Entrepreneurship Development and Management	3	-	-	25	-	100	3	-	-	125
6.3	Basics of Automobile Engineering	3	-	-	50	-	100	3	-	-	150
6.4	Basics of Inspection & Quality Control	4	-	-	50	-	100	3	-	-	150
6.5 **	Industrial Engineering	4	-	-	50	-	100	3	-	-	150
6.6 +	CNC Machines and Automation	3	-	2	25	25	100	3	50	3	200
6.7 ***	PLCs and Microprocessor	4	-	4	25	25	100	3	50	3	200
6.8	Project Work	-	-	6	50	-	100	3	-	-	150
Student Centred Activities #		-	-	5	-	25	-	-	-	-	25
Total		21	-	19	275	100	700	-	150	-	1225

* Common with other diploma programmes

** Common with diploma programme in Mechanical Engineering

*** Common with diploma programme in Electrical Engineering

+ Common with diploma programme in Mechanical Engineering in Semester-5

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.