

7. STUDY AND EVALUATION SCHEME FOR DIPLOMA PROGRAMME IN CIVIL 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 (CIVIL 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 Mechanical 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 (CIVIL 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	Fluid Mechanics	3	-	2	25	25	100	3	50	3	200
3.2	Structural Mechanics	4	-	2	25	25	100	3	50	3	200
3.3	Surveying – I	2	-	5	25	25	100	3	50	3	200
3.4	Construction Materials	4	-	2	25	25	100	3	50	3	200
3.5	Building Construction	5	-	2	25	25	100	3	50	3	200
3.6	Civil Engineering Drawing -I	-	-	4	-	50	-	-	100	3	150
# Student Centered Activities		-	-	5	-	25	-	-	-	-	25
Total		18	-	22	125	200	500	-	350	-	1175

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 (CIVIL 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	Concrete Technology	3	-	2	25	25	100	3	50	3	200
4.2	Water Supply and Waste Water Engineering	5	-	2	25	25	100	3	50	3	200
4.3	Irrigation Engineering	4	-	-	50	-	100	3	-	-	150
4.4	Surveying – II	2	-	6	25	25	100	3	50	3	200
4.5	RCC Design	5	-	-	50	-	100	3	-	-	150
4.6	Civil Engineering Drawing-II	-	-	6	-	50	-	-	100	3	150
# Students Centered Activities including Entrepreneurial Awareness Camp		-	-	5	-	25	-	-	-	-	25
Total		19		21	175	150	500	-	250	-	1075

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.

Note: Survey camp will be held after 4th semester for minimum 15 days in a sub mountainous area away from polytechnic preferably in camp conditions. Details are given at Sr. No. 5.3 in 5th Semester.

FIFTH SEMESTER (CIVIL 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	
5.1	Steel Structure Design	5	-	-	50	-	100	3	-	-	150
5.2	Highway Engineering	5	-	2	25	25	100	3	50	3	200
5.3	Survey Camp	-	-	-	-	50	-	-	50	3	100
5.4	Computer Applications in Civil Engineering	-	-	6	-	50	-	-	100	3	150
5.5	Soil and Foundation Engineering	4	-	2	25	25	100	3	50	3	200
5.6 *	Environmental Education	3	-	-	25	-	100	3	-	-	125
5.7	Structural Drawing	-	-	6	-	50	-	-	100	3	150
5.8 *	Employability Skills - I	-	-	2	-	25	-	-	50	3	75
# Student Centered Activities including Personality Development Camp		-	-	5	-	25	-	-	-	-	25
Total		17	-	23	125	250	400	-	400	-	1175

* Common with other diploma programmes

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 (CIVIL 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	Earthquake Resistant Building Construction	3	-	-	50	-	100	3	-	-	150
6.2	Railways, Bridges and Tunnels	5	-	-	50	-	100	3	-	-	150
6.3	Quantity Surveying & Valuation	5	-	-	50	-	100	3	-	-	150
6.4	Construction Management & Accounts	5	-	-	50	-	100	3	-	-	150
6.5	Electives (as given below ⁺)	3	-	-	50	-	100	3	-	-	150
6.6 *	Employability Skills - II	-	-	2	-	25	-	-	50	3	75
6.7	Major Project Work	-	-	12	-	100	-	-	100	3	200
# Student Centred Activities		-	-	5	-	25	-	-	-	-	25
Total		21	-	19	250	150	500	-	150	-	1050

* Common with other diploma programmes

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.

⁺ **Electives (Any one of the following):**

6.5.1 Repair and Maintenance of Buildings

6.5.2 Environmental Engineering

6.5.3 Pre-stressed Concrete