

## 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
<b>Total</b>		<b>15</b>	<b>-</b>	<b>25</b>	<b>125</b>	<b>250</b>	<b>500</b>	<b>-</b>	<b>375</b>	<b>-</b>	<b>1250</b>

\* 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
<b>Total</b>		<b>18</b>	<b>-</b>	<b>22</b>	<b>150</b>	<b>225</b>	<b>600</b>	<b>-</b>	<b>325</b>	<b>-</b>	<b>1300</b>

\* 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
<b>Total</b>		<b>18</b>	<b>-</b>	<b>22</b>	<b>125</b>	<b>200</b>	<b>500</b>	<b>-</b>	<b>350</b>	<b>-</b>	<b>1175</b>

# 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
<b>Total</b>		<b>19</b>		<b>21</b>	<b>175</b>	<b>150</b>	<b>500</b>	<b>-</b>	<b>250</b>	<b>-</b>	<b>1075</b>

# 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 4<sup>th</sup> 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 5<sup>th</sup> 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
<b>Total</b>		<b>17</b>	<b>-</b>	<b>23</b>	<b>125</b>	<b>250</b>	<b>400</b>	<b>-</b>	<b>400</b>	<b>-</b>	<b>1175</b>

\* 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 <sup>+</sup> )	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
<b>Total</b>		<b>21</b>	<b>-</b>	<b>19</b>	<b>250</b>	<b>150</b>	<b>500</b>	<b>-</b>	<b>150</b>	<b>-</b>	<b>1050</b>

\* 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.

<sup>+</sup> **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