

# **Study & Evaluation Scheme**

**of**

## **Diploma in Engineering (CIVIL ENGINEERING)**

**[Applicable w.e.f. Academic Session 2024-25]**

Approved by Academic Council



**FUTURE UNIVERSITY**

**18th Milestone, Bareilly-Lucknow Highway NH-24  
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# FUTURE UNIVERSITY

(Established under Govt. of U. P. Act No. 12, 2024)

## Study & Evaluation Scheme of Diploma in Engineering (CIVIL ENGINEERING) SUMMARY

Programme : Diploma in Engineering (CIVIL ENGINEERING)

Duration : Three years full time (Six Semesters)

Medium : English/ Hindi

Minimum Required Attendance : 75 percent

### Credit

Maximum Credit : 132

Minimum credit required for the degree : 120

Assessment (Theory)	Internal	External	Total
	30%	70%	100%

Assessment (Practical)	Internal	External	Total
	30%	70%	100%

Internal Evaluation (Theory Papers)	Class Test I	Class Test II	Assignment(s)	Other Activity (including attendance)	Total
	10 Marks	10 Marks	5 Marks	5 Marks	30 Marks

Internal Evaluation (Practical Papers)	Experiment File Viva	Mid Semester Exam	Attendance	Total
	10 Marks	10 Marks	10 Marks	30 Marks

Duration of Examination (Theory)	External	Internal
	3 hrs.	1 1/2 hrs

Duration of Examination (Practical)

: As per the requirement of the practical paper.

To qualify the course a student is required to secure a minimum of 40% marks in aggregate including the semester end examination and teachers' continuous evaluation. (i.e. both internal and external).

A candidate who secures less than of 40% of marks in a course shall be deemed to have failed in that course. The student should have at least 50% marks in aggregate to clear the semester. In case a student has more than 40% in each course, but less than 50% overall in a semester, he/she shall re-appear in courses where the marks are less than 50% to achieve the required aggregate percentage of 50% in the semester.

#### **Question Paper Structure**

- 1. The question paper shall consist of six questions. Out of which first question shall be of short answer type (not exceeding 50 words) and will be compulsory. Question No. 1 shall contain 8 parts representing all units of the syllabus and students shall have to answer any five (weight age 4 marks each).*
- 2. Out of the rest five questions, students shall be required to attempt all five questions, but there will be an internal choice of A or B. Each question will be from one unit of the syllabus. The weight age of Question No. 2 to 6 shall be 10 marks each.*

# *Faculty of Engineering & Technology*

## *Department of Diploma in Engineering*

### *Civil Engineering*

#### *Evaluation Scheme*

Credit Framework for Diploma in Engineering - NEP-2020									
Sem.	Major (Core)	Minor Stream	Multidisciplinary	Ability Enhancement course	Skill Enhancement Course	Value added Courses Common for All Diploma	Summer Internship	Research Project/Dissertation	Total Credit
1.	14	5			3	2			24
2.	17	4	2			1			24
3.	14		2		5	1			22
4.	16			3		1	2		22
5.	14		3			3			20
6.	15	2				1		2	20

**Total Credit- 132**

**Polytechnic (Diploma in Engineering), Semester I**

SN	Subject Name	Type	Category	Period			Sessional Component		Sessional(SW) (TS/PS)	End Semester Examination (ESE)	Total	Credit
				L	T	P	CT	TA				
1.	Mathematics-I	T	Major (Core)	3	1	-	20	10	30	70	100	4
2.	Applied Physics-I	T	Major (Core)	3	1	-	20	10	30	70	100	4
3.	Applied Chemistry	T	Major (Core)	3	1	-	20	10	30	70	100	4
4.	Communication Skills in English	T	Skill Enhancement	3	-	-	20	10	30	70	100	3
5.	Applied Physics Lab	P	Minor Stream	-	-	4	-	20	20	30	50	2
6.	Applied Chemistry Lab	P	Minor Stream	-	-	2	-	20	20	30	50	1
7.	Communication Skills Lab	P	Minor Stream	-	-	2	-	20	20	30	50	1
8.	Engineering Graphics	P	Major (Core)	-	-	4	-	20	20	30	50	2
9.	Engineering Workshop Practice Lab	P	Minor Stream	-	-	2	-	20	20	30	50	1
10.	General Proficiency	-	Value Added	-	-	2	-	50	50	-	50	1
11.	Sports & Yoga	-	Value Added	-	-	2	-	20	20	30	50	1
	<b>Total</b>			<b>12</b>	<b>3</b>	<b>18</b>	<b>80</b>	<b>210</b>	<b>290</b>	<b>460</b>	<b>750</b>	<b>24</b>

**Polytechnic (Diploma in Engineering), Semester II**

SN	Subject Name	Type	Category	Period			Sessional Component		Evaluation Scheme			Total	Credit
				L	T	P	CT	TA	Sessional(SW) (TS/PS)	End Semester Examination (ESE)			
									CT+TA	TE/PE	SW+ESE	Cr	
1.	Mathematics-II	T	Major (Core)	3	1	-	20	10	30	70	100	4	
2.	Applied Physics-II	T	Major (Core)	3	1	-	20	10	30	70	100	4	
3.	Introduction to IT System	T	Major (Core)	2	-	-	20	10	30	70	100	2	
4.	Fundamentals of Electrical & Electronic Engineering	T	Major (Core)	2	1	-	20	10	30	70	100	3	
5.	Engineering Mechanics	T	Major (Core)	3	1	-	20	10	30	70	100	4	
6.	Environmental Sciences	T	Multidisciplinary	2	-	-	20	10	30	70	100	2	
7.	Applied Physics-II Lab	P	Minor Stream	-	-	2	-	20	20	30	50	1	
8.	Introduction to IT System Lab	P	Minor Stream	-	-	2	-	20	20	30	50	1	
9.	Fundamentals of Electrical Electronic Engineering Lab	P	Minor Stream	-	-	2	-	20	20	30	50	1	
10.	Engineering Mechanics Lab	P	Minor Stream	-	-	2	-	20	20	30	50	1	
11.	General Proficiency	-	Value Added	-	-	2	-	50	50	-	50	1	
	<b>Total</b>			<b>15</b>	<b>4</b>	<b>10</b>	<b>120</b>	<b>190</b>	<b>310</b>	<b>540</b>	<b>850</b>	<b>24</b>	

**Polytechnic (Diploma in Engineering), Semester III**

SN	Subject Name	Type	Category	Period		Sessional Component		Sessional (SW) (TS/PS)	End Semester Examination (ESE)	Evaluation Scheme		Total	Credit
				L	T	P	CT	TA	CT+TA	TE/PE	SW+ESE		
1.	Hydraulics and hydraulic Machines	T	Major (core)	3	1	-	20	10	30	70	100	4	
2.	Communication Skill-II	T	Skill Enhancement	3	-	-	20	10	30	70	100	3	
3.	AI for Everyone	T	Skill Enhancement	2	-	-	20	10	30	70	100	2	
4.	Concrete Technology	T	Major (core)	2	1	-	20	10	30	70	100	3	
5.	Environmental Studies	T	Multidisciplinary	2	-	-	20	10	30	70	100	2	
6.	Building Construction	T	Major (core)	3	1	-	20	10	30	70	100	4	
7.	Hydraulics and hydraulic LAB	P	Major (core)	-	-	4	-	20	20	30	50	2	
8.	Concrete Technology LAB	P	Major (core)	-	-	2	-	20	20	30	50	1	
9.	General Proficiency	-	Valu Added	-	-	2	-	50	50	-	50	1	
	<b>Total</b>			<b>15</b>	<b>3</b>	<b>8</b>	<b>120</b>	<b>150</b>	<b>270</b>	<b>480</b>	<b>750</b>	<b>22</b>	

**Polytechnic (Diploma in Engineering), Semester IV**

SN	Subject Name	Type	Category	Period			Sessional Component		Sessional (SW) (TS/PS)	End Semester Examination (ESE)	Total	Credit
				L	T	P	CT	TA				
1.	Industrial Training	P	Summer Training	-	-	-	-	-	50	-	50	2
2.	Highway Engineering	T	Major (core)	2	1	-	20	10	30	70	100	3
3.	AI for Engineering	T	Major (core)	3	-		20	10	30	70	100	3
4.	Surveying- I	T	Major (core)	2	1	-	20	10	30	70	100	3
5.	Reinforced Cement Concrete Structures (RCC Structures)	T	Major (core)	2	1	-	20	10	30	70	100	3
6.	Energy Conservation	T	Ability Enhancement	3	-	-	20	10	30	70	100	3
7.	RCC Drawing	T	Major (core)	1	1		20	10	30	70	100	2
8.	Highway Engineering LAB	P	Major (core)	-	-	2	-	20	20	30	50	1
9.	Surveying- I LAB	P	Major (core)	-	-	2	-	20	20	30	50	1
10.	General Proficiency	-	Value Added	-	-	2	-	50	50	-	50	1
	<b>Total</b>			<b>13</b>	<b>4</b>	<b>6</b>	<b>120</b>	<b>150</b>	<b>320</b>	<b>480</b>	<b>800</b>	<b>22</b>

**Polytechnic (Diploma in Engineering), Semester V**

SN	Subject Code	Subject Name	Type	Category	Period			Sessional Component		Sessional (SW) (TS/PS)	End Semester Examination (ESE)	Total	Credit	
					L	T	P	CT	TA					
1.	CEET501	Water and waste water Engineering	T	Major (core)	2	1	-	20	10	30	70	100	3	
2.	CEET502	Building Drawings	T	Major (core)	3	1	-	20	10	30	70	100	4	
3.	CEET503	Soil Mechanics and Foundation Engineering	T	Major (core)	2	1	-	20	10	30	70	100	3	
4.	CEET504	Surveying-II	T	Major (core)	2	1	-	20	10	30	70	100	3	
5.	CEET505	Industrial Management and Entrepreneurship Development	T	Multidisciplinary	3	-	-	20	10	30	70	100	3	
6.	CEVA506	Universal Human Values	T	Value Added	2	-	-	20	10	30	70	100	2	
7.	CESL501	Surveying-II LAB	P	Major (core)	-	-	2	-	20	20	30	50	1	
8.	CEVA501	General Proficiency	-	Value Added	-	-	2	-	50	50	-	50	1	
		<b>Total</b>			<b>14</b>	<b>4</b>	<b>4</b>	<b>120</b>		<b>130</b>	<b>250</b>	<b>450</b>	<b>700</b>	<b>20</b>

**Polytechnic (Diploma in Engineering), Semester VI**

SN	Subject Code	Subject Name	Type	Category	Period		Sessional Component		Sessional (SW) (TS/PS)	End Semester Examination (ESE)	Total	Credit	
					L	T	P	CT	TA	CT+TA	TE/PE	SW+ESE	Cr
1.	CEET601	Quantity Surveying and Valuation	T	Major (core)	2	1	-	20	10	30	70	100	3
2.	CEET602	Design of Steel Structure	T	Major (core)	2	1	-	20	10	30	70	100	3
3.	CEET603	Steel Structure Drawing	T	Major (core)	2	1	-	20	10	30	70	100	3
4.	CEET604	Irrigation Engineering	T	Major (core)	2	-	-	20	10	30	70	100	2
5.	CEET605	Software Application in Civil Engineering	T	Minor Stream	2	-	-	20	10	30	70	100	2
6.	CECA606	Repair and Maintenance Buildings*	T	Major (core)	3	-	-	20	10	30	70	100	3
7.	CEMM601	Design of Steel Structure LAB	P	Major (core)	-	-	2	-	20	20	30	50	1
8.	CEPW601	Project Work	-	Project	-	-	4	-	50	50	200	250	2
9.	CEGP601	General Proficiency	-	Value Added	-	-	2	-	50	50	-	50	1
		<b>Total</b>			13	3	8	120	180	300	650	950	20

Note: - (\*) Elective Subjects