

**PROGRAMME - DIPLOMA IN CIVIL ENGINEERING
PROGRAMME STRUCTURE**

SCHEME AT A GLANCE

Level	Name of Level	Total Number of Courses offered	Number of Courses to be completed	TH	TU	PR	Total Hours	Total Credits	Marks
Level-1	Foundation Courses	9	9 Compulsory	16	01	18	35	26	950
Level-2	Basic Technology Courses	08	08 Compulsory	20	--	18	38	29	1100
Level-3	Allied courses	06	04 (03 Compulsory +01 Electives)	06	--	06	12	09	250
Level-4	Applied Technology Courses	11	11 Compulsory	24	-	28	52+35	52	1575
Level-5	Diversified Courses	04	01 Electives	03	-	02	05	04	125
TOTAL		38	31 compulsory +02 Elective	69	01	72	142+35	120	4000
Audit courses		04	04	06	--	02	08	--	--
Grand Total		42	37	75	01	74	185	120	4000

Abbreviations :

TH : Theory, TU : Tutorial, PR: Practical.

PROGRAMME - DIPLOMA IN CIVIL ENGINEERING
PROGRAMME STRUCTURE
LEVEL – 1
FOUNDATION COURSES

Sr. No.	Course Code	Course Title	Course Abbr.	TEACHING SCHEME					EXAMINATION SCHEME						
				Hours per week				Credits	Theory Paper		Test	PR	OR	TW	Total
				TH	TU	PR	Total Hours		Hrs	Mark					
01	21101	Communication Skills	CMS	02	--	02	04	03	03	80	20	--	--	50	150
02	21102	Engineering Mathematics	EMT	02	01	--	03	03	03	80	20	--	--	--	100
03	21103	Applied Mathematics	AMT	03	--	--	03	03	03	80	20	--	--	--	100
04	21104	Applied Physics	PHY	03	--	02	05	04	02	80#	20#	--	--	50	150
05	21105	Applied Chemistry	CHY	03	--	02	05	04	02	80#	20#	--	--	50	150
06	21107	Engineering Graphics	EGR	--	--	04	04	02	--	--	--	--	--	50	50
07	21108	Engineering Mechanics	EMH	03	--	02	05	04	03	80	20	--	--	50	150
08	21109	Workshop Practice	WSP	--	--	04	04	02	--	--	--	--	--	50	50
09	21110	Introduction to IT System	ITS	--	--	02	02	01	--	--	--	--	--	50	50
TOTAL			--	16	01	18	35	26	--	480	120	--	--	350	950

Level : 1

Total Courses : 9
Total Credits : 26
Total Marks : 950

Abbreviations :

Abbreviation, TH : Theory, TU : Tutorial, PR: Practical, OR : Oral, TW : Term Work

Course code Indication:

First two digit : Indicates last two digits of Year of Implementation of Curriculum
Third digit : Indicates Level.
Fourth & fifth digit : Indicates Course Number.

Assessment of PR / OR / TW :

- 1) All orals & practicals are to be assessed by external & internal examiners.
- 2) All TW are to be assessed by internal examiners only.
- 3) #indicates Online theory Examination

PROGRAMME - DIPLOMA IN CIVIL ENGINEERING
PROGRAMME STRUCTURE
LEVEL – 2
BASIC TECHNOLOGY COURSES

Sr. No.	Course Code	Course Title	Course Abbr.	TEACHING SCHEME						EXAMINATION SCHEME					
				Hours per week				Credits	Theory Paper		Test	PR	OR	TW	Total
				TH	TU	PR	Total Hours		Hrs	Mark					
01	21201	Building Drawing	BDG	01	--	04	05	03	04	80	20	--	25	25	150
02	21202	Concrete Technology	COT	02	--	02	04	03	03	80	20	--	25	25	150
03	21203	Hydraulics	HYD	03	--	02	05	04	03	80	20	--	25	25	150
04	21204	Mechanics of Structures	MOS	03	--	02	05	04	03	80	20	--	--	25	125
05	21205	Geotechnical Engineering	GTE	02	--	02	04	03	03	80	20	--	--	25	125
06	21206	Transportation Engineering	TEN	03	--	00	03	03	03	80	20	--	--	--	100
07	21207	Building Construction	BCN	03	--	02	05	04	03	80	20	--	25	25	150
08	21208	Basic Surveying	BSY	03	--	04	07	05	03	80	20	25	--	25	150
TOTAL			--	20	-	18	38	29	--	640	160	25	100	175	1100

Level: 2

Total Courses : 08
Total Credits : 29
Total Marks : 1100

Assessment of PR / OR / TW :

- 1) All orals & practicals are to be assessed by external & internal examiners.
- 2) All TW are to be assessed by internal examiners only.

PROGRAMME - DIPLOMA IN CIVIL ENGINEERING
PROGRAMME STRUCTURE
LEVEL – 3
ALLIED COURSES

Sr. No.	Course Code	Course Title	Course Abbr.	TEACHING SCHEME					EXAMINATION SCHEME						
				Hours Per Week				Credits	Theory Paper		Test	PR	OR	TW	Total
				TH	TU	PR	Total Hours		Hrs	Mark					
01	21301	Entrepreneurship and Start-ups	EPS	01	--	02	03	02	--	--	--	--	--	50	50
02	21302	Construction Management	CNM	03	--	--	03	03	03	80	20	--	--	--	100
03	21303	Programming and problem solving	PPS	01	--	02	03	02	--	--	--	--	--	50	50
Elective I: Any ONE of the following															
04	21304	Computer Applications for Project Management	CAP	01	--	02	03	02	--	--	--	--	--	50	50
	21305	Artificial Intelligence	AIC	01	--	02	03	02	--	--	--	--	--	50	50
	21306	Internet of Things	IOT	01	--	02	03	02	--	--	--	--	--	50	50
TOTAL			--	06	--	06	12	09	--	80	20	--	--	150	250

Level: 3

Total Courses : 04
Total Credits : 9
Total Marks : 250

Assessment of PR / OR / TW:

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- 2) All TW are to be assessed by internal examiners only.

PROGRAMME - DIPLOMA IN CIVIL ENGINEERING
PROGRAMME STRUCTURE
LEVEL – 4
APPLIED TECHNOLOGY COURSES

Sr. No.	Course Code	Course Title	Course Abbr.	TEACHING SCHEME					EXAMINATION SCHEME						
				Hours Per Week				Credits	Theory Paper		Test	PR	OR	TW	Total
				TH	TU	PR	Total Hours		Hrs	Mark					
01	21401	Advanced Surveying	ASY	03	--	04	07	05	03	80	20	50	--	25	175
02	21402	Computer Aided Drawing	CAD	--	--	04	04	02	--	--	--	25	--	50	75
03	21403	Estimating and Costing	ESC	03	--	04	07	05	04	80	20	--	25	50	175
04	21404	Contracts Accounts and Valuation	CAV	03	--	02	05	04	03	80	20	--	25	25	150
05	21405	Theory of Structures	TOS	03		--	03	03	03	80	20	--	--	--	100
06	21406	Design of R.C.C. Structures	RCC	03	--	04	07	05	04	80	20	--	25	50	175
07	21407	Design of Steel Structures	DSS	03	--	02	05	04	04	80	20	--	25	25	150
08	21408	Environmental Engineering	ENE	03	--	02	05	04	03	80	20	--	25	25	150
09	21409	Irrigation Engineering	IRG	03	--	02	05	04	03	80	20	--	--	25	125
10	21410	Industrial training	INT	--	--	--	35	14	--	--	--	--	100	100	200
11	21411	Project	PRO	--	--	04	04	02	--	--	--	--	50	50	100
TOTAL			--	24	-	28	52+35	52	--	640	160	75	275	425	1575

Level: 4

Total Courses : 11
Total Credits : 52
Total Marks : 1575

Assessment of PR / OR / TW :

- 1) All orals & practicals are to be assessed by external & internal examiners.
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PROGRAMME - DIPLOMA IN CIVIL ENGINEERING
PROGRAMME STRUCTURE
LEVEL – 5
DIVERSIFIED COURSES

Sr. No.	Course Code	Course Title	Course Abbr.	TEACHING SCHEME					EXAMINATION SCHEME						
				Hours per Week				Credits	Theory Paper		Test	PR	OR	TW	Total
				TH	TU	PR	Total Hours		Hrs	Mark					
Elective II: Any ONE of the following															
01	21501	Advanced Construction Technology	ACN	03	--	02	05	04	03	80	20	--	--	25	125
	21502	Building Services and Maintenance	BSM	03	--	02	05	04	03	80	20	--	--	25	125
	21503	Solid Waste Management	SWM	03	--	02	05	04	03	80	20	--	--	25	125
	21504	Earthquake Resistant Structures	ERS	03	--	02	05	04	03	80	20	--	--	25	125
TOTAL			--	03	--	02	05	04	--	80	20	--	--	25	125

Level: 5

Total Courses : 01
Total Credits : 04
Total Marks : 125

Assessment of PR / OR / TW :

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**PROGRAMME - DIPLOMA IN CIVIL ENGINEERING
PROGRAMME STRUCTURE
AUDIT COURSES**

Sr. No.	Course Code	Course Title	Course Abbr.	Contact Hours Per Week (TH)	Contact Hours Per Week (PR)	Total Contact Hours Per Week	Total Credits
01	21001	Environmental science	EVS	02	--	02	--
02	21002	Sports and Yoga	SPY	--	02	02	--
03	21003	Essence of Indian Knowledge and Tradition	IKT	02	--	02	--
04	21004	Indian Constitution	ICN	02	-	02	--
		TOTAL	--	06	02	08	--

Total Courses : 04
Total Credits : Nil
Total Marks : --

PROGRAMME - DIPLOMA IN CIVIL ENGINEERING
Courses for Award of Class

Sr.No.	Course Code	Course Title	Course Abbr.	TEACHING SCHEME					EXAMINATION SCHEME						
				Hours per Week				Total Credits	Theory Paper		Test	PR	OR	TW	Total
				TH	TU	PR	Total Hours		Hrs	Mark					
01	21203	Hydraulics	HYD	03		02	05	04	03	80	20	--	25	25	150
02	21302	Construction Management	CNM	03	--	--	03	03	03	80	20	--	--	--	100
03	21403	Estimating and Costing	ESC	03	--	04	07	04	04	80	20	--	25	50	175
04	21404	Contracts Accounts & valuation	CAV	03	--	02	05	04	03	80	20	--	25	25	150
05	21405	Theory of Structures	TOS	03	--	--	03	03	03	80	20	--	--		100
06	21406	Design of R.C.C. Structures	RCC	03	--	04	07	05	04	80	20	--	25	50	175
07	21407	Design of Steel Structures	DSS	03	--	02	05	04	04	80	20	--	25	25	150
08	21408	Environmental Engineering	ENE	03	--	02	05	04	03	80	20	-	25	25	150
09	21409	Irrigation Engineering	IRG	03	--	02	05	04	03	80	20	--	--	25	125
10	21410	Industrial Training	INT	--	--	--	--	14	--	--	--	--	100	100	200
11	21411	Project	PRO	--	--	04	04	02	--	--	--	--	50	50	100
Elective II :Any ONE of the following															
12	21501	Advanced Construction Technology	ACN	03	--	02	05	04	03	80	20	--	--	25	125
	21502	Building Services and Maintenance	BSM	03	--	02	05	04	03	80	20	--	--	25	125
	21503	Solid Waste Management	SWM	03	--	02	05	04	03	80	20	--	--	25	125
	21504	Earthquake Resistant Structures	ERS	03	--	02	05	04	03	80	20	--	--	25	125
TOTAL			--	30	-	24	54	41+14	--	800	200	-	300	400	1700

Total Courses : 12 Total Credits : 55 Total Marks : 1700

Assessment of PR / OR / TW :

- 1) All orals & practicals are to be assessed by external & internal examiners.
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PROGRAMME - DIPLOMA IN CIVIL ENGINEERING
SAMPLE PATH
ENTRY LEVEL- 10+

Nature of Course	First Year		Second Year		Third Year		Total
	Odd Term	Even Term	Odd Term	Even Term	Odd Term	Even Term	
Compulsory	21102 (03) EMT	21101 (03) CMS	21201 (03) BDG	21205 (03) GTE	21404 (04) CAV	21411(14) INT	-- -- -- -- -- -- --
	21105 (04) CHY	21103 (03) AMT	21202 (03) COT	21301 (02) EPS	21407 (04) DSS	--	
	21107 (02) EGR	21104 (04) PHY	21203 (04) HYD	21302 (03) CNM	21408 (04) ENE	--	
	21108 (04) EMH	21109(02) WSP	21204 (04) MOS	21402 (02) CAD	21409 (04) IRG	--	
	21110(01) ITS	21207(04) BCN	21206 (03) TRE	21403 (05) ESC	21414 (02) PRO	--	
	--	21208 (05) BSY	21401 (05) ASY	21405(03) TOS	--	--	
	--	21303 (02) PPS		21406 (05) RCC	--	--	
Total credits (Compulsory)	14	23	22	23	18	14	114
Elective	--	--	--	--	I) Any ONE from Elective: I 21304 CAP, 21305 AI, 21306 IOT : (02) II) Any ONE from Elective : II 21501 ACN, 21502 BMS 21503 SWM, 21504 ERS, : (04)	----	--
Elective	--	--	--	--	02	--	--
Total Credits (Elective)	Nil	Nil	Nil	Nil	06	Nil	06
Total Courses	05	07	06	07	07	01	33
Audit Courses	21002 SPY(00)	21001 EVS(00)	21003 IKT(00)	21004 ICN(00)	--	--	00
Total Credits (Compulsory + Elective)	14	23	22	23	24	14	120
Grand Total of Credits	--	--	--	--	--	--	120

Note: Figures in bracket indicates total credits.