

West Bengal State Council of Technical &
Vocational Education and Skill
Development
(Technical Education Division)



Curriculum Structure
of

Diploma in Civil Engineering [CE]

Part-II (3rd & 4th Semester) and Part-III (5th
& 6th Semester)

Revised 2022

**CURRICULAR STRUCTURE FOR PART – II FIRST SEMESTER (THIRD SEMESTER) OF THE
FULL-TIME DIPLOMA COURSE IN CIVIL ENGINEERING**

SL. NO.	SUBJECT CODE	SUBJECT OF STUDY	HOURS PER WEEK			CREDITS
		THEORETICAL PAPERS	LECTURE	TUTORIAL	PRACTICAL	
1	CEPC301	Construction Materials	2	0	0	2
2	CEPC302	Basic Surveying	3	0	0	3
3	CEPC303	Mechanics of Materials	3	0	0	3
4	CEPC304	Building Construction	2	0	0	2
5	CEPC305	Concrete Technology	2	0	0	2
6	CEPC306	Civil Engineering Planning and Drawing	1	0	0	1
7	CEPC307	Transportation Engineering	2	0	0	2
		LABORATORY/ SESSIONAL PAPERS				
8	CEPC308S	Civil Engineering Planning and Drawing Practices	0	0	4	2
	CEPC309S: Civil Engineering Lab - I (consisting of following four Modules with 8 Practical Classes and 4 Credits)					
9	CEPC309S/I	Module-I: Construction Material Lab	0	0	2	1
10	CEPC309S/II	Module-II: Mechanics of Materials Lab	0	0	2	1
11	CEPC309S/III	Module-III: Concrete Technology Lab	0	0	2	1
12	CEPC309S/IV	Module-IV: Transportation Engineering Lab	0	0	2	1
		INTERNSHIP				
13	CEI310S	Internship-I after 2nd Semester	0	0	0	1
		TOTAL	15	0	12	22

TENTATIVE CURRICULAR STRUCTURE FOR PART – II SECOND SEMESTER (FOURTH SEMESTER) OF THE FULL-TIME DIPLOMA COURSE IN CIVIL ENGINEERING

SL. NO.	SUBJECT CODE	SUBJECT OF STUDY	HOURS PER WEEK			CREDITS
		THEORETICAL PAPERS	LECTURE	TUTORIAL	PRACTICAL	
1	CEPC401	Hydraulics	2	0	0	2
2	CEPC402	Advanced Surveying	3	0	0	3
3	CEPC403	Theory of Structure	3	0	0	3
4	CEPC404	Geotechnical Engineering	3	0	0	3
5	CEPC405	Design of RCC and Steel Structure	3	0	0	3
		LABORATORY/ SESSIONAL PAPERS				
6	CEPC406S	Basic Surveying Field Practices	0	0	2	1
	CEPC407S: Civil Engineering Lab - II (consisting of following two Modules with 4 Practical Classes and 2 Credits)					
7	CEPC407S/I	Module-V: Hydraulics Lab	0	0	2	1
8	CEPC407S/II	Module-VI: Geotechnical Engineering Lab	0	0	2	1
		ELECTIVE & PROJECT				
9	CEPE408	Elective - I: one subject out of Precast and Prestressed Concrete (subject code: CEPE 408/I)/Rural Construction Technology (subject code: CEPE 408/II)	3	0	0	3
10	CEPR409S	Minor Project	0	0	4	2
		TOTAL	17	0	10	22

TENTATIVE CURRICULAR STRUCTURE FOR PART – III FIRST SEMESTER (FIFTH SEMESTER) OF THE FULL-TIME DIPLOMA COURSE IN CIVIL ENGINEERING

SL. NO.	SUBJECT CODE	SUBJECT OF STUDY	HOURS PER WEEK			CREDITS
		THEORETICAL PAPERS	LECTURE	TUTORIAL	PRACTICAL	
1	CEPC501	Water Resource Engineering	2	0	0	2
2	CEPC502	Estimating, Costing and Valuation	3	0	0	3
		LABORATORY/ SESSIONAL PAPERS				
3	CEPC503S	Design of RCC and Steel Structure Practices	0	0	2	1
4	CEPC504S	Estimating, Costing and Valuation Practices	0	0	2	1
5	CEPC505S	Water Resource Engineering Practices	0	0	2	1
		ELECTIVE, PROJECT AND INTERNSHIP				
6	CEPE506	Elective - II: one subject out of Advanced Design of Structures (CEPE506/I)/ Pavement Design & Maintenance (CEPE506/II)	3	0	0	3
7	CEPE507	Elective - III: one subject out of Building Services and Maintenance (CEPE507/I) / Traffic Engineering (CEPE507/II)	3	0	0	3
8	CEI508S	Internship-II after fourth Semester	0	0	0	1
9	CEPR509S	Major Project I	0	0	4	2
10	CEPC510	Construction Management	2	0	0	2
		TOTAL	13	0	10	19

***Pavement Design & Maintenance (CEPE506/II)/ Traffic Engineering (CEPE507/II) - both from same subject. So both subjects or one of them may be changed if found necessary in future while framing the detailed syllabus.**

TENTATIVE CURRICULAR STRUCTURE FOR PART – II SECOND SEMESTER (SIXTH SEMESTER) OF THE FULL-TIME DIPLOMA COURSE IN CIVIL ENGINEERING

SL. NO.	SUBJECT CODE	SUBJECT OF STUDY	HOURS PER WEEK			CREDITS
		THEORETICAL PAPERS	LECTURE	TUTORIAL	PRACTICAL	
1	CEPC601	Public Health Engineering	2	0	0	2
		LABORATORY/ SESSIONAL PAPERS				
2	CEPC602S	Civil Engineering Lab- III: Module-VII: Public Health Engineering Lab	0	0	2	1
3	CEPC603S	Advanced Surveying Practices	0	0	2	1
		ELECTIVE AND SEMINAR				
4	CEPE604	Elective IV: one subject out of Tendering and Accounts (CEPE604/I) Advanced Construction Technology & Safety Practices in Construction (CEPE604/II)	3	0	0	3
5	CEHS605	Entrepreneurship and Start-ups	3	0	0	3
6	CEOE606	Common Open Elective: Open Elective I Engineering Economics & Project Management	3	0	0	3
7	CEOE607	Open Elective II: one subject out of Disaster Management (CEPE607/I) Industrial Safety Engineering (CEPE607/II)	3	0	0	3
8	CEPR608S	Major Project-II	0	0	4	2
9.	CESE609	Seminar	1	0	0	1
		TOTAL	15	0	8	19

ABSTRACT:

	Lecture	Tutorial	Practical	Credit
Semester 3	15	0	12	22
Semester 4	17	0	10	22
Semester 5	13	0	10	19
Semester 6	15	0	8	19
Total	60	0	40	82