



**WEST BENGAL STATE COUNCIL OF TECHNICAL & VOCATIONAL EDUCATION
AND SKILL DEVELOPMENT**

(A Statutory Body under Government of West Bengal Act XXVI of 2013)

Department of Technical Education, Training & Skill Development, Government of West Bengal
Karigari Bhawan, 4th & 5th Floor, Plot No. B/7, Action Area-III, Newtown, Rajarhat, Kolkata-700160

WBSCTVESD Curriculum for Diploma Courses in Engineering and Technology

Semester - I

Sl. No.	Category of Course	Course Title	Hours per week			Total contact hrs/ week	Credits	Marks
			L	T	P			
Theory Subjects								
1.	Basic Science	Mathematics-I	2	1	0	3	3	100
2.	Basic Science	Applied Physics-I	2	1	0	3	3	100
3.	Basic Science	Applied Chemistry	2	1	0	3	3	100
4.	Humanities & Social Science	Communication Skills in English	2	0	0	2	2	100
Practical Subjects								
5.	Engineering Science	Engineering Graphics	0	0	3	3	1.5	100
6.	Engineering Science	Engineering Workshop Practice	0	0	3	3	1.5	100
7.	Basic Science	Applied Physics-I Lab	0	0	2	2	1	100
8.	Basic Science	Applied Chemistry Lab	0	0	2	2	1	100
9.	Humanities & Social Science	Sports and Yoga	0	0	2	2	1	100
10.	Humanities & Social Science	Communication Skills in English Lab	0	0	2	2	1	100
Total			8	3	14	25	18	1000

Semester - II

Sl. No.	Category of Course	Course Title	Hours per week			Total contact hrs/ week	Credits	Marks
			L	T	P			
Theory Subjects								
1.	Basic Science	Mathematics-II	3	1	0	4	4	100
2.	Basic Science	Applied Physics-II	2	1	0	3	3	100
3.	Engineering Science	Introduction to IT Systems	2	0	0	2	2	100
4.	Engineering Science	Fundamentals of Electrical & Electronics Engineering	2	1	0	3	3	100
5.	Engineering Science	Engineering Mechanics	2	1	0	3	3	100
Practical Subjects								
6.	Basic Science	Applied Physics-II Lab	0	0	2	2	1	100
7.	Engineering Science	Introduction to IT Systems Lab	0	0	4	4	2	100
8.	Engineering Science	Fundamentals of Electrical & Electronics Engineering Lab	0	0	2	2	1	100
9.	Engineering Science	Engineering Mechanics Lab	0	0	2	2	1	100
AUDIT COURSES-Mandatory non-credit courses								
10.	Audit	Indian Constitution	2	0	0	2	0	100
Total			13	4	10	27	20	1000

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	Marks
			LECTURE	TUTORIAL	PRACTICAL		
1	CEPC301	Construction Materials	2	0	0	2	100
2	CEPC302	Basic Surveying	3	0	0	3	100
3	CEPC303	Mechanics of Materials	3	0	0	3	100
4	CEPC304	Building Construction	2	0	0	2	100
5	CEPC305	Concrete Technology	2	0	0	2	100
6	CEPC306	Civil Engineering Planning and Drawing	1	0	0	1	100
7	CEPC307	Transportation Engineering	2	0	0	2	100
		LABORATORY/SESSIONAL PAPERS					
8	CEPC308S	Civil Engineering Planning and Drawing Practices	0	0	4	2	100
	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	100
10	CEPC309S/II	Module-II: Mechanics of Materials Lab	0	0	2	1	100
11	CEPC309S/II I	Module-III: Concrete Technology Lab	0	0	2	1	100
12	CEPC309S/IV	Module-IV: Transportation Engineering Lab	0	0	2	1	100
		INTERNSHIP					
13	CEI310S	Internship-I after 2 nd Semester	0	0	0	1	100
		TOTAL	15	0	12	22	1300

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	Marks
			LECTURE	TUTORIAL	PRACTICAL		
1	CEPC401	Hydraulics	2	0	0	2	100
2	CEPC402	Advanced Surveying	3	0	0	3	100
3	CEPC403	Theory of Structure	3	0	0	3	100
4	CEPC404	Geotechnical Engineering	3	0	0	3	100
5	CEPC405	Design of RCC and Steel Structure	3	0	0	3	100
		LABORATORY/SESSIONAL PAPERS					
6	CEPC406S	Basic Surveying Field Practices	0	0	2	1	100
	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	100
8	CEPC407S/II	Module-VI: Geotechnical Engineering Lab	0	0	2	1	100
		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	100
10	CEPR409S	Minor Project	0	0	4	2	100
		TOTAL	17	0	10	22	1000

* All subjects (theoretical as well as sessional) are full paper with 100 marks in aggregate as per AICTE and WBSCT&VE&SD

* Basic Surveying Field Practices may also be conducted in 2-3 weeks field work continuously instead of having 2 practical class per week for the entire semester.

**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	Marks
			LECTURE	TUTORIAL	PRACTICAL		
1	CEPC501	Water Resource Engineering	2	0	0	2	100
2	CEPC502	Estimating, Costing and Valuation	3	0	0	3	100
		LABORATORY/SESSIONAL PAPERS					
3	CEPC503S	Design of RCC and Steel Structure Practices	0	0	2	1	100
4	CEPC504S	Estimating, Costing and Valuation Practices	0	0	2	1	100
5	CEPC505S	Water Resource Engineering Practices	0	0	2	1	100
		ELECTIVE, PROJECT AND INTERNSHIP					
6	CEPE506	Elective - II: one subject out of Advanced Design of Structures (CEPE506/I) / Traffic Engineering (CEPE506/II)	3	0	0	3	100
7	CEPE507	Elective - III: one subject out of Building Services and Maintenance (CEPE507/I) / Repair and Maintenance of Structures (CEPE507/II)	3	0	0	3	100
8	CEI508	Internship-II after fourth Semester	0	0	0	1	100
9	CEPR509S	Major Project I	0	0	4	2	100
10	CEPC510	Safety Engineering & Management in the Construction Sector	2	0	0	2	100
		TOTAL	13	0	10	19	1000

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

SL. No.	SUBJECT CODE	SUBJECT OF STUDY	HOURS PER WEEK			CREDITS	Marks
			LECTURE	TUTORIAL	PRACTICAL		
1	CEPC601	Public Health Engineering	2	0	0	2	100
		LABORATORY/SESSIONAL PAPERS					
2	CEPC602S	Civil Engineering Lab-III: Module-VII: Public Health Engineering Lab	0	0	2	1	100
3	CEPC603S	Advanced Surveying Practices	0	0	2	1	100
		ELECTIVE, MANDATORY COURSES AND SEMINAR					
4	CEPE604	Elective IV: one subject out of Tendering and Accounts (CEPE604/I) / Advanced Construction Technology (CEPE604/II)	3	0	0	3	100
5		Entrepreneurship and Start-ups	3	0	0	3	100
6		Compulsory Open Elective: Open Elective I: Engineering Economics & Project Management	3	0	0	3	100
7		Open Elective II : one subject has to be taken from list of open elective subjects as provided by WBSCT&VE&SD*	3	0	0	3	100
8.	CEPR605S	Major Project-II	0	0	4	2	100
9.	CESE606S	Seminar and Viva -Voce	1	0	0	1	100
		TOTAL	15	0	8	19	900

NOTE: -

1. All subjects (theoretical as well as sessional/practical) are full paper with 100 marks in aggregate as per AICTE and WBSCT&VE&SD

2. Advanced Surveying Field Practices may also be conducted in 2-3 weeks field work continuously instead of having 2 practical classes per week for the entire semester.

Note: Civil students will be benefited if they choose Solid waste management/ Disaster Management/ Construction Management as the subject for Open Elective II from the list provided by WBSCT&VE&SD

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