(Formerly West Bengal University of Technology)
Syllabus for B. Tech in Civil & Environmental Engineering

(Applicable from the academic session 2018-2019)

Curriculum Structure

		SECOND YEAR - THIRD S	EMESTI	ER			
THE	ORY						
Sl.	Code	Theory	Cont	act hou	rs/wk		Credit
No.			L	T	P	Total	point
1.	HU301	Values and Ethics in Profession	1	0	0	1	1
2.	CH(CHE)302	Chemistry-2	3	2	0	5	3
3.	CH(FT) 301	Basic Environmental Engineering and Elementary Biology	3	0	0	3	3
4.	FT301	Thermodynamics & Kinetics	2	0	0	2	2
5.	CE302	Surveying	2	1	0	3	2
6.	CE303A	Building Material & Construction	3	2	0	5	3
	Total of Theory					19	14
PRAC	CTICAL		•		•		
7.	CH391	Environmental Engineering Lab	0	0	3	3	2
8.	CH392	Chemistry-2 Lab	0	0	3	3	2
9.	CE392	Surveying Practice-I	0	0	3	3	2
10.	CE393	Building Design &Drawing	0	0	3	3	2
	To				12	08	
	To				31	22	

		SECOND YEAR - FOURT	TH SEMES	ΓER			
THEC	ORY						
Sl.	Code	Theory	Contact hou	ours/wk	-	Credit	
No.			L	T	P	Total	point
1.	M(CS)401	Numerical Methods	2	1	0	3	2
2	CHE414	Unit Operation of chemical Engineering-I	2	0	0	2	2
3.	M402	Mathematics-3	2	1	0	3	2
4	CE402A	Structural Analysis-A	2	1	0	3	2
5.	CE402B	Structural Analysis-B	2	1	0	3	2
6.	CE403A	Soil mechanics-A	2	1	0	3	2
7.	CE403B	Soil mechanics-B	2	1	0	3	2
		Total of Theory				20	14
PRAC	CTICAL		•	•		•	
8.	HU481	Tech. Writing/Lang. Lab	0	0	3	3	2
9.	M(CS)491	Numerical Methods	0	0	2	2	1
10.	CE492	Surveying Practice - II	0	0	3	3	2
11.	CE493	Soil Mechanics Lab-I	0	0	3	3	2
12.	CHE484	Unit Operation Lab -I	0	0	3	3	2
	Total of Practical					14	9
	,				34	23	

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		THIRD YEAR - FIFTH S	EMESTE	R				
THE	ORY							
Sl.	Code	Code Theory Contact hours/wk						
No.			L	T	P	Total	point	
1.	HU501	Economics for Engineers	1	0	0	1	1	
2	CHE514	Unit Operation of Chemical Engineering-II	2	1	0	3	2	
3.	CE502A	Design of RC Structures-A	2	1	0	3	2	
4.	CE502B	Design of RC Structures-B	2	1	0	3	2	
5.	CE503A	Concrete Technology-A	2	0	0	2	2	
6.	CE503B	Concrete Technology-B	2	0	0	2	2	
7.	CE504A	Engineering Geology-A	2	0	0	2	2	
8.	CE504B	Engineering Geology-B	2	0	0	2	2	
		Total of Theory				18	15	
PRA(CTICAL		•	•				
6.	CE591	Soil Mechanics Lab-II	0	0	3	3	2	
7.	CE592	Concrete Lab	0	0	3	3	2	
8.	CE593	Quantity Surveying, Specification and Valuation	0	0	3	3	2	
9.	CE594	Engineering Geology Laboratory	0	0	3	3	2	
	·	Total of Practical				12	8	
		Total of Semester				30	23	

	THIRD YEAR - SIXTH SEMESTER								
THE	ORY								
Sl.	Code	Theory	Con	Credit					
No.			L	T	P	Total	point		
1.	HU601	Principles of Management	2	0	0	2	2		
2	FT604	Microbial Tech & Biotechnology	3	0	0	3	3		
3.	CE602	Design of Steel Structure	3	0	0	3	3		
4.	CE603	Construction Planning& Management	3	0	0	3	3		
5	CVE601	Professional Elective-I	3	0	0	3	3		
6.	CVE602	Free Elective- I	3	0	0	3	3		
	'	Total of Theory				17	17		
PRAC	CTICAL		•	•	•	•			
7.	CVE 691	Environmental Chemistry Lab	0	0	3	3	2		
8.	FT692	Microbial Tech Lab	0	0	4	4	2		
9.	CVE681	Seminar	0	0	3	3	2		
	•	Total of Practical				10	6		
		Total of Semester				27	23		

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Professional Elective-I

1. CVE601A: Solid & Hazardous Waste Treatment

2. CVE601B: Industrial Waste Treatment

Free Elective –I

1. CVE 602A: Operations Research (M)

2. CVE 602B: Human Resource Management (HSS)

3. CVE 602C: Materials Handling (ME)

		FOURTH YEAR - SEVENTH SEM	AESTI	ER			
THEC	ORY						
Sl.	Code	Theory	Contact hours/wk			ζ	Credit
No.			L	T	P	Total	point
1.	CE701	Environmental Engineering	2	0	0	2	2
2	CE702	Water Resource Engineering	2	0	0	2	2
3.	CVE701	Professional Elective-II	1	0	0	1	1
4.	CVE702	Professional Elective-III	1	0	0	1	1
5.	CVE703	Free Elective- II	1	0	0	1	1
	•	Total of Theory				7	7
PRAC	CTICAL		•	•			
6.	CVE791	Environmental Engineering & Design Lab	0	0	3	3	2
7.	CVE792	Free Elective Laboratory	0	0	3	3	2
8.	CVE781	Industrial Training	4 we	eks dı	ıration		2
			during 6 th -7 th				
			Sem	ester b			
9.	CVE782	Project Part I				6	2
		Total of Practical				12	8
		Total of Semester				19	15

Professional Elective -II

1. CVE701A: Soil Stabilization and Ground Improvement Techniques

2. CVE701B: Advanced Highway and Transportation Engineering

Profession Elective –III

1. CVE702A: Advanced Structural Analysis

2. CVE702B: Hydraulic Structures

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3. CVE702C: Climate & Ocean Currents

Free Elective -II

CVE703A : Engineering Materials (ME)
 CVE703B : Electrical and Electronic

Measurement (EE) Free Elective Laboratory

1. CVE792A: Material Testing Lab (ME)

2. CVE792B : Electrical and Electronic Measurement Laboratory (EE)

3. CVE792C: Climate & Ocean Currents Lab

FOURTH YEAR – EIGHTH SEMESTER

THEO	RY						
Sl.	Code	Theory	Contact hours/wk				Credit
No.			L	T	P	Total	point
1.	HU801A HU801B	Organizational Behavior/Project Management	2	0	0	2	2
2	CVE801	Professional Elective-IV	2	0	0	2	2
3.	CVE802	Professional Elective-V	2	0	0	2	2
4.	CVE803	Natural Resources : Renewable and Non-renewable Resources	2	0	0	2	2
5.	CVE804	Cost Effective Effluent Treatment	2	0	0	2	2
	T	otal of Theory				10	10
PRAC	TICAL				•		
5.	CVE881	Project Part II	0	0	12	12	4
6.	CVE882	Grand Viva					2
	Total of Practical					12	6
	To	otal of Semester				22	16

Professional Elective -IV

1. CVE801A: Environment Pollution and Control (CE)

2. CVE801B: Water Resource Management and Planning (CE)

3. CVE801C: Remote Sensing and

GIS (CE) Professional Elective -V

1. CVE802A: Finite Element Method (CE)

2. CVE802B: Pavement Design (CE)