

Civil Engineering Department

COURSE STRUCTURE AND SYLLABI FOR BTECH (CIVIL ENGG.)

Autumn 2018 Onwards

COURSE STRUCTURE

Total credits for the complete programme in 4 years (8 semesters) = 164

Semester-wise Distribution of Courses

Semester 1

Course code	Course Name	L	T	P	Cr	CH	Type
MS104	Mathematics I	3	1	0	4	4	BS
PH103	Physics I	2	0	1	3	4	BS
CH103	Chemistry	3	0	1	4	5	BS
EE103	Basic Electrical Engineering	3	0	0	3	3	ES
EE104	Basic Electrical Engineering Lab	0	0	1	1	2	ES
EF103	English	2	0	1	3	4	HSM
SE100	Induction Programme	0	0	0	0	8	NC
Total		13	1	4	18	30	

Semester 2

Course code	Course Name	L	T	P	Cr	CH	Type
PH104	Physics II	2	0	0	2	2	BS
MS105	Mathematics II	3	1	0	4	4	BS
CO103	Introductory Computing	3	0	0	3	3	ES
ME103	Workshop Practice	0	0	2	2	4	ES
CE103	Engineering Graphics *	1	0	2	3	5	ES
CO104	Computing Laboratory	0	0	2	2	4	ES
ME102	Engineering Mechanics	3	1	0	4	4	ES
EC102	Basic Electronics	2	1	1	4	5	ES
Total		14	3	7	24	31	

Semester 3

Course Code	Course Name	L	T	P	Cr	CH	Type
MS205	Mathematics-III	3	0	0	3	3	BS
ES201	Environmental Science	1	0	1	0	3	NC
BA201	Economics	3	0	0	3	3	HSM
CE220	Building Construction and Drawing	2	0	2	4	6	PC
CE221	Building Materials & Technology	3	0	0	3	3	PC
CE 222	Concrete & Structure Lab	0	0	2	2	4	PC
CE228	Engineering Geology	2	0	0	2	2	PC
CE229	Solid Mechanics	3	1	0	4	4	ES
Total		17	1	5	21	28	

Semester 4

Course Code	Course Name	L	T	P	Cr	CH	Type
BT201	Biology	3	0	0	3	3	BS
CE 223	Fluid Mechanics	3	0	1	4	5	PC
CE224	Surveying	3	1	1	5	6	PC
CE225	Structural Analysis-I	3	1	0	4	4	PC
CE226	Geotechnical Engineering-I	3	1	0	4	4	PC
CE227	Geotechnical Engineering Lab	0	0	2	2	4	PC
Total		15	3	4	22	26	

*B.M.*  
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Tezpur University  
Tezpur, Assam

### Semester 5

Course Code	Course Name	L	T	P	Cr	CH	Type
LW301	Indian Constitution	1	0	0	0	1	NC
CE320	Structural Design-I	3	1	0	4	4	PC
CE321	Hydraulics	3	0	0	3	3	PC
CE322	Structural Analysis-II	3	0	0	3	3	PC
CE323	Geotechnical Engineering-II	3	0	0	3	3	PC
CE324	Environmental Engineering-I	3	0	0	3	3	PC
CE325	Environmental Engineering Lab.	0	0	2	2	4	PC
CE326	Transportation Engineering	3	0	0	3	3	PC
CE327	Transportation Engineering Lab.	0	0	1	1	2	PC
Total		19	1	3	22	26	

### Semester 6

Course Code	Course Name	L	T	P	Cr	CH	Type
IC361	Accounting and Financial Management	3	0	0	3	3	HSM
CE328	Structural Design-II	3	0	0	3	3	PC
CE329	Environmental Engineering-II	3	0	0	3	3	PC
CE330	Estimating, Costing and Valuation	3	0	0	3	3	PC
CE331	Construction Management	3	0	0	3	3	ES
CExxx	Programme Elective-I	3	0	0	3	3	PE
XXxxx	Open Elective-I	3	0	0	3	3	OE
Total		21	0	0	21	21	

### Semester 7


Course Code	Course Name	L	T	P	Cr	CH	Type
XXxxx	HSS / Management Elective	3	0	0	3	3	HSM
CExxx	Programme Elective-II	3	0	0	3	3	PE
CExxx	Programme Elective-III	3	0	0	3	3	PE
CExxx	Programme Elective-IV	3	0	0	3	3	PE
XXxxx	Open Elective-II	3	0	0	3	3	OE
CE471	Industrial Summer Training	0	0	0	2	0	Prj
CE483	Project-I	0	0	4	4	8	Prj
CT465	Essentials of Indian Traditional Knowledge	1	0	0	0	1	NC
Total		16	0	4	21	24	

### Semester 8

Course Code	Course Name	L	T	P	Cr	CH	Type
CExxx	Programme Elective-V	3	0	0	3	3	PE
CExxx	Programme Elective-VI	3	0	0	3	3	PE
XXxxx	Open Elective-III	3	0	0	3	3	OE
CE484	Project-I	0	0	6	6	12	Prj
Total		9	0	6	15	21	

#### Abbreviations:

- L ♦ credit for lectures classes
- T ♦ credit for tutorials classes
- P ♦ credit for laboratory / practical classes
- Cr ♦ total credit
- CH ♦ total weekly contact hours
- BS ♦ course of Basic Sciencetype
- ES ♦ course of Engineering Science type
- HSM - course of Humanities and Social Science and Management type
- NC - course of Mandatory Non-Credit type
- PC - course of Professional Core type
- PE - course of Professional Elective type
- OE - course of Open Elective type
- Prj ♦ Projects and Industrial Training

  
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