

CE - B.Tech. in Civil Engineering 2016 Batch

Semester 1

S.No	Course No	Course Name	L	T	E	P	O	C	Cat
1	MA1010	Functions of Several Variables	3	1	0	0	6	10	S
2	PH1010	Physics. I	3	1	0	0	6	10	S
3	PH1030	Physics Lab.1	0	0	0	3	1	4	S
4	CE1010	Introduction to Civil Engg	2	1	1	0	4	8	P
5	CS1100	Introduction to Programming	3	0	0	3	6	12	E
6	ME1120	Engg. Drawing	0	1	0	3	3	7	E
7	ID1200	Ecology and Environment	0	0	0	0	2	0	
8	GN1101	Life Skills I	0	0	0	0	2	0	
		NCC/ NSS/ NSO	0	0	0	0	2	0	
		Total Credits :						51	

Winter

S.No	Course No	Course Name	L	T	E	P	O	C	Cat
1	WS1010	Workshop I	0	0	0	3	0	3	E

Semester 2

S.No	Course No	Course Name	L	T	E	P	O	C	Cat
1	MA1102	Series and Matrices	3	1	0	0	6	10	S
2	PH1020	Physics. II	3	1	0	0	6	10	S
3	AM1100	Engg. Mechanics	3	1	0	0	6	10	E
4	CY1001	Chemistry I	3	1	0	0	6	10	S
5	CY1002	Chemistry Lab	0	0	0	3	0	3	S
6	CE2330	CE Materials and Construction	3	0	0	0	6	9	P
8	GN1102	Life Skills II	0	0	0	0	1	0	
8		NCC/ NSS/ NSO	0	0	0	0	3	0	
		Total Credits :						52	

Summer

S.No	Course No	Course Name	L	T	E	P	O	C	Cat
1	WS1020	Workshop II	0	0	0	3	0	3	E

Semester 3

S.No	Course No	Course Name	L	T	E	P	O	C	Cat
1		Math. 3	3	0	0	0	6	9	S
2	CE2310	Mechanics of Materials	3	1	1	0	6	11	E
3	CE3010	Transportation Engineering - 1	3	0	0	0	6	9	P
4	CE2040	Hydraulic Engineering	3	1	1	0	6	11	P
5	CE2080	Surveying	2	1	0	3	4	10	P
6		Total Credits						50	

Semester 4

S.No	Course No	Course Name	L	T	E	P	O	C	Cat
1	CE2020	Structural Analysis	3	1	1	0	6	11	P
2	CE2060	Geotechnical Engineering - 1	3	1	1	0	6	11	P
3	CE3020	Transportation Engineering - 2	3	0	0	0	6	9	P
4	CE3040	Environmental Engineering	3	1	0	0	6	10	P
5		Science Elective (Maths/Physics/Chemistry)	3	0	0	0	6	9	S
6		Humanities Elec. 1	3	0	0	0	6	9	H
		Total Credits						59	

Semester 5

S.No	Course No	Course Name	L	T	E	P	O	C	Cat
1	BT1010	Life Sciences	3	0	0	0	6	9	S
2	CE3350	Geotechnical Engineering - 2	3	1	1	0	6	11	P
3	CE3030	Water Resources Engineering	4	0	0	0	8	12	P
4	CE3060	Basic RC Design	3	1	1	0	6	11	P
5	CE4030	Hydraulic & Environ. Engg. Lab	0	0	0	3	1	4	P
6	CE3410	Construction Material Lab	0	0	0	3	1	4	P
		Total Credits						51	

Semester 6

S.No	Course No	Course Name	L	T	E	P	O	C	Cat
1	CE3100	Structural Engg. Lab	0	0	0	3	1	4	P
2	CE3050	Basic Steel Design	3	1	1	0	6	11	P
3	CE4010	Construction Project Mgmt.	3	1	0	0	6	10	P
4		Humanities Elec. 2	3	0	0	0	6	9	H
5		Total Credits	9	2	1	3	19	34	

Summer

S.No	Course No	Course Name	L	T	E	P	O	C	Cat
		Summer Internship	0	0	0	0	20	0	

Semester 7

S.No	Course No	Course Name	L	T	E	P	O	C	Cat
1		Humanities Elec. 3	3	0	0	0	6	9	H
2		Total Credits	3	0	0	0	6	9	

Semester 8

S.No	Course No	Course Name	L	T	E	P	O	C	Cat
2	HS3050	Professional Ethics	2	0	0	0	0	0	H
		Total						9	

Semester	I	II	III	IV	V	VI	VII	VIII	Total
Credits	51	52+6	50*	59*	51*	34*	9*	*	432

***Please note that the indicated credits are only for core program.**

- The students are required to take **120 credits of electives in semesters III-VIII, of which at least 30 credits should be in Civil Engg.** The remaining credits can be from any department including Civil Engineering
- Electives can be taken in semesters III-VIII, limiting to about 60 credits per semester.
- An optional B.Tech. project can be taken in lieu of 27 elective credits. Please note that such project credits will not be counted against the 18 Civil Engineering credits. Project can be taken in any department including Civil Engineering.

Category	Engineering (E)	Professional (P)	Humanities (H)	Sciences (S)	Others	Total
Credits	46	155 + 30	27	84	90	432

B.Tech (Honours): (Total credit requirement: 432 + 27 = 459)

- Eligibility:** minimum CGPA of 8.5 at the end of 5th sem without U or W grade in any course.
- The students are required to take **120 + 27 credits of electives in semesters III-VIII, of which at least 57 credits should be in Civil Engg.** The remaining credits can be from any department including Civil Engineering
- 27 elective credits to be taken in CE courses at 5000-level or higher.
- Honours student should carry out a B.Tech. project worth 13 credits in VII and 14 credits in VIII semester in department including Civil Engineering.