

BRANCH CODE: CE23
Dual Degree (B.Tech. & M.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
7	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
		Total Credits	3	0	0	0	6	9	

Semester 8

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

Summer

S.No	Course No	Course Name	L	T	E	P	O	C	Cat
1	CE4801	Project (Summer)	0	0	0	0	0	25	P
		Total						25	

Semester 9

S.No	Course No	Course Name	L	T	E	P	O	C	Cat
1	CE4802	Project	0	0	0	0	0	20	P
		Total						20	

Semester 10

S.No	Course No	Course Name	L	T	E	P	O	C	Cat
1	CE4803	Project	0	0	0	0	0	40	P
		Total						20	

Semester	I	II	III	IV	V	VI	VII	VIII	summer	IX	X	Total
Credits	51	52+6	50*	59*	51*	34*	9*	*	25	20*	40*	553

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

- The students are required to take **120 + 36 = 156 elective credits during semesters III-X**, with at least 66 of those credits in Civil Engineering, and at least 4 electives (36 credits) in DD stream of specialisation. 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.

Category	Engineering (E)	Professional (P)	Humanities (H)	Sciences (S)	Others	Total
Credits	46	155+66+85	27	75+9	90	553

B.Tech (Honours) + M.Tech. : (Total credit requirement: 553 + 27 = 580)

- Eligibility:** minimum CGPA of 8.5 at the end of 5th sem without U or W grade in any course. They should maintain the same until graduation.
- An Honours student should satisfy a total credit requirement of 553+27=580 credits. These additional 27 credits should be completed in the VI, VII and VIII semesters, limiting to about 60 credits per semester.
- 63 (27 + 36) of the elective credits to be taken in CE courses at 5000-level or higher, of which, at least 4 electives (36 credits) in stream of specialisation
- 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.