

Civil and Infrastructure Engineering

SEMESTER - I (Common for all B.Tech Courses)

S.No	C. Code	Course	L	T	P	C
1	CY101T	Fundamental concepts and Applications of Chemistry	3	0	0	6
2	MA108T	Calculus	3	1.5	0	9
3	ME201T	Engineering Mechanics	2	1	0	6
4	PH101T	Quantum Physics and Applications	2	1	0	6
5	CS101C	Computer Programming	3	0	3	9
6	HS101T	Design Thinking and Creativity	1	0	0	PP/NP
7	NO 101/NO 103	National Sports Organization	0	0	2	2
		Total Credits				38

Semester II

S.No	Course Code	Course Name	L	T	P	Total Credits
1	CE101T	Introduction to Civil Engineering	2	1	0	6
2	CE301T	Environmental Studies	3	0	0	6
3	MA109T	Linear Algebra and Differential Equations	3	1.5	0	9
4	ME101C	Engineering Graphics Lab	1	0	3	5
5	CS101T	Data Structures and Algorithms	3	0	0	6
6	CS101L	Data Structures and Algorithms Laboratory	0	0	3	3
7	ME101L	Hands on Engineering Lab	0	0	3	3
8	NO107/ NO105/ NO 106/ NO 108	NSO/NSS/NCC/NCA	1	0	0	2
		Total Number of Credits				40

Semester III

S.No	Course Code	Course Name	L	T	P	C
1	CE205T	Building Materials and Construction	3	0	0	6
2	CE206T	Sustainable Infrastructure Planning	2	1	0	6
3	ME208T	Fluid Mechanics	2	1	0	6
4	ME205T	Mechanics of Materials	2	1	0	6
5	HS201T	Economics	2	1	0	6
6	CE204L	Construction Materials Laboratory	0	0	3	3
7	CE203L	Building Drawing Practice	0	0	3	3
		Total Credits				36

Semester IV

S.No	Course Code	Course Name	L	T	P	C
1	CE202T	Surveying and Geomatics	3	0	0	6
2	CE202L	Surveying and Geomatics Laboratory	0	0	3	3
3	CE203T	Structural Analysis	3	0	0	6
4	ME204L	Solid Mechanics Laboratory	0	0	3	3
5	ME202L	Fluid Mechanics Laboratory	0	0	3	3
6	CE207T	Hydraulics and hydraulic Machinery	3	0	0	6

7	CE208T	Water Resources Engineering	3	0	0	6
		Total Credits				33
Semester V						
S.No	Course Code	Course Name	L	T	P	C
1	CE302T	Design of Concrete Structures	3	0	0	6
2	CE303T	Geotechnical Engineering	3	0	0	6
3	CE304T	Transportation Engineering	3	0	0	6
4	CE302L	Transportation Engineering Laboratory	0	0	3	3
5	CE303L	Geotechnical Engineering Laboratory	0	0	3	3
6	CE305T	Environmental Engineering	3	0	0	6
7	CE304L	Environmental Engineering Laboratory	0	0	3	3
		Total Credits				33
Semester VI						
S.No	Course Code	Course Name	L	T	P	C
1	CE306T	Design of Steel Structures	3	0	0	6
2	CE309T	Construction Engineering and management	3	0	0	6
3	CE307T	Foundation Engineering	3	0	0	6
4		Institute Elective-I/R&D Project in Civil Engineering	3	0	0	6
5	CE306L	Sensors Technologies & Instrumentation in Civil Engineering	0	0	3	3
6		Institute Elective-II	2	1	0	6
		Total Credits				33
Semester VII						
S.No	Course Code	Course Name	L	T	P	C
1	CE401C	Civil and Infrastructure Engineering Design	1	0	2	6
2	CE401P	BTP-I/Intensive BTP-1*	0	0	6/9	6/9
3	CE308T	Estimation and Costing in civil Engineering	2	1	0	6
4		Institute Elective-III/ Program Elective-I	2	1	0	6
5		Institute Elective-IV	2	1	0	6
		Total Credits				30/33
Semester VIII						
S.No	Course Code	Course Name	L	T	P	C
1	CE404	BTP-II/Program Elective-II	0	0	6/9	6/9
		Institute Elective-V/Program Elective-II	0	0	0	6
		Total Credits				12/15
	Overall Credits Required (Minimum)					255/261