

Civil and Infrastructure Engineering						
SEMESTER - I (Common for all B.Tech Courses)						
S.No	C. Code	Course	L	T	P	C
1	CH 102	Fundamental Concepts & Applications of Chemistry	3	0	0	6
2	MA 109	Calculus-I (1 st Half)	3	1	0	4
3	MA 121	Calculus-II (2 nd Half)	3	1	0	4
4	PH 101	Quantum Physics and Applications	2	1	0	6
5	BB 103	Introduction to Modern Biology	3	0	0	6
6	CS 103	Introduction to Programming-I (Using C)(1 st Half)	2	1	0	4
7	EE 103	Introduction to Programming-II (Using C)(2 nd Half)	2	1	0	4
8	PH 113	Hands on Science Laboratory-I	0	0	0	3
9	HS 103	Introduction to Fine Arts				(P/NP)
10	HS 106	Design Thinking and Creativity				(P/NP)
11	NO 101/103	National Sports Organization (NSO)/ National Service Scheme (NSS)				(P/NP)
						37

SEMESTER - I (Common for all B.Tech Courses)						
S.No	C. Code	Course	L	T	P	C
1	MA 101	Calculus	3	1	0	8
2	PH 101	Quantum Physics and Applications	2	1	0	6
3	CH 102	Fundamental Concepts and Applications of Chemistry	3	0	0	6
4	BB 103	Introduction to Modern biology	3	0	0	6
5	PH 113	Hands on Science Laboratory - I	0	0	3	3
6	CS 101	Computer Programming	3	0	2	8
7	HS 106	Design Thinking and Creativity	1	0	0	PP/NP
8	NO107/ NO105/ NO 106/ NO 108	NSO/NSS/NCC/NCA	0	0	2	2
First Semester Total Credits						37

Semester II						
S.No	Course Code	Course Name	L	T	P	Total Credits
1	CE 101	Introduction to Civil Engineering	2	1	0	6
2	CS 201/106	Data Structures & Algorithms	3	0	0	6
3	CS 211	Data Structures & Algorithms Lab	0	0	3	3

4	MA 103	Differential Equations I (2nd Half Semester)	3	1	0	4
5	MA 406/206	Introduction to Numerical Methods (1st Half Semester)	3	1	0	4
6	ME 201	Engineering Mechanics	2	1	0	6
7	ME 111	Engineering Graphics Lab	1	0	3	5
8	ME 113	Hands-on Engineering Lab	0	0	3	3
9	NO107/ NO105/ NO 106/ NO 108	NSO/NSS/NCC/NCA	1	0	0	2
Total Number of Credits						37

Semester III

S.No	Course Code	Course Name	L	T	P	C
1	ME 203	Fluid Mechanics	2	1	0	6
2	ME 222	Mechanics of Materials	2	1	0	6

3	CE 201	Building and Construction Materials	1	1	2	6
4	HS 201	Economics	2	1	0	6
5	CE 204	Hydraulics Engineering	2	1	0	6
6	CE 203	Building Planning and Drawing	2	0	2	6
		Total Credits				36

Semester IV

S.No	Course Code	Course Name	L	T	P	C
1	CE 202	Surveying and Geomatics	2	1	0	6
2	CE 212	Surveying and Geomatics Laboratory	0	0	3	3
3	CE 205	Structural Analysis	2	1	0	6
4	ME 218	Solid Mechanics Laboratory	0	0	3	3
5	ME224	Fluid Mechanics Laboratory	0	0	3	3
6	CE 301	Environmental Studies	3	0	0	6
7	CE 206	Water Resources Engineering	2	1	0	6
		Institute Elective-I	2	1	0	6
		Total Credits				39

Semester V

S.No	Course Code	Course Name	L	T	P	C
1	CE 302	Design of Concrete Structures	2	1	0	6
2	CE 303	Geotechnical Engineering	2	1	0	6
3	CE 304	Transportation Engineering	2	1	0	6
4	CE 311	Transportation Engineering Laboratory	0	0	3	3
5	CE 312	Geotechnical Engineering Laboratory	0	0	3	3
6	CE 305	Environmental Engineering	2	1	0	6
7	CE 313	Environmental Engineering Laboratory	0	0	3	3
8	CE 314	Civil Engineering Software Laboratory	0	0	3	3
		Total Credits				36

Semester VI

S.No	Course Code	Course Name	L	T	P	C
1	CE 306	Design of Steel Structures	2	1	0	6
2	CE 310	Sensors Technologies & Instrumentation in Civil Engineering	2	0	2	6
3	CE 308	Foundation Engineering	2	1	0	6
4	CE 315	Civil Engineering Credit Seminar	0	0	3	3

5	CE 309	Estimation and Costing in Civil Engineering	2	0	0	3
6		Institute Elective-II	2	1	0	6
7		HSS Elective-I	2	1	0	6
		Total Credits				36

Semester VII

S.No	Course Code	Course Name	L	T	P	C
1	CE 401	Construction Engineering & Management	2	1	0	6
2	CE 403	Civil and Infrastructure Engineering Design	1	0	1	3
3		Institute Elective-III	2	1	0	6
4		HSS Elective-III	2	1	0	6
5		BTP-I	0	0	6	6
		Total Credits				27

Semester VIII

S.No	Course Code	Course Name	L	T	P	C
1		BTP-II/Program Elective-II	0	0	6	6
2		Institute Elective-IV	0	0	0	6
		Total Credits				12
	Overall Credits Required (Minimum)					254