

CURRICULUM

B. Tech (CIVIL ENGINEERING)

The total minimum credits required for completing the B.Tech. Program in Civil Engineering is 176 (131 + 45).

SEMESTER III

Code	Course of Study	L	T	P	C
MA203	Probability, Statistics and Linear programming	3	0	0	3
CE201	Mechanics of Solids-I	3	1	0	3
CE203	Mechanics of Fluids - I	3	1	0	3
CE205	Surveying - I	3	0	0	3
CE207	Geotechnical Engineering - I	3	0	0	3
CE209	Concrete Technology	3	0	0	3
CE211	Building Planning and Drawing	1	0	3	2
CE213	Survey Lab I	0	0	3	1
CE215	Geotechnical Lab	0	0	3	1
Total		19	2	9	22

SEMESTER IV

Code	Course of Study	L	T	P	C
MA204	Numerical Techniques	3	1	0	3
CE202	Mechanics of Solids-II	3	1	0	3
CE204	Mechanics of Fluids - II	3	1	0	3
CE206	Surveying - II	3	0	0	3
CE208	Geotechnical Engineering - II	3	0	0	3
CE210	Environmental Engineering - I	3	0	0	3
CE214	Survey Lab II	0	0	3	1
CE216	Strength of Materials Lab	0	0	3	1
Total		18	3	6	20

SEMESTER V

Code	Course of Study	L	T	P	C
CE301	Environmental Engineering - II	3	0	2	4
CE303	Structural Analysis - I	3	0	0	3
CE305	Concrete Structures -I	3	0	2	4
CE307	Steel Structures - I	3	0	2	4
CE309	Hydraulic Machinery	3	0	0	3
CE311	Advanced Strength of Materials	3	0	0	3
CE313	Fluid Mechanics Lab	0	0	3	1
CE315	Environmental Engineering Lab	0	0	3	1
Total		18	0	12	23

SEMESTER VI

Code	Course of Study	L	T	P	C
CE302	Structural Analysis - II	3	1	0	3
CE304	Transportation Engineering - I	3	0	0	3
CE306	Concrete Structures-II	3	0	2	4
CE308	Steel Structures - II	3	0	2	4
CE310	Water Resources Engineering	3	0	0	3
	Elective - 1	3	0	0	3
CE312	Computer Aided Design - I	1	0	3	2
CE314	Estimation, Costing and Valuation	1	0	2	2
Total		20	1	9	24

SEMESTER VII

Code	Course of Study	L	T	P	C
CE401	Matrix Methods of Structural Analysis	3	1	0	3
CE403	Transportation Engineering - II	3	0	0	3
CE405	Irrigation and Hydraulic Structures	3	0	2	4
MD4901	Industrial Economics	3	0	0	3
	Elective – 2	3	0	0	3
	Elective – 3	3	0	0	3
CE407	Computer Aided Design - II	1	0	3	2
CE447	Comprehensive Viva - Voce	0	0	6	3
Total		19	1	11	24

SEMESTER VIII

Code	Course of Study	L	T	P	C
MD4902	Management Concepts and Practices	3	0	0	3
CE402	Prestressed Concrete Structures	3	0	0	3
	Elective – 4	3	0	0	3
	Elective – 5	3	0	0	3
CE498	Project Work	0	0	12	6
Total		12	0	12	18

ELECTIVES (VI Semester)

Sl. No.	Course of Study	L	T	P	C
CE352	Groundwater Hydrology	3	0	0	3
AR451	Urban and Regional Planning	3	0	0	3
MA302	Operations Research Techniques in Civil Engineering	3	0	0	3

ELECTIVES (VII Semester)

Sl. No.	Course of Study	L	T	P	C
CE451	Experimental Stress Analysis	3	0	0	3
CE453	GIS and Remote Sensing				
CE455	Hydrology	3	0	0	3
ME453	Industrial Safety	3	0	0	3
ME457	Computational Fluid Dynamics	3	0	0	3

ELECTIVES (VIII Semester)

Sl. No.	Course of Study	L	T	P	C
CE452	Earthquake Resistant Structures	3	0	0	3
CE454	Advanced Foundation Engineering	3	0	0	3
CE456	Water Power Engineering	3	0	0	3
CE458	Finite Element Method	3	0	0	3
CE460	Transportation planning	3	0	0	3
MS	Financial Management	3	0	0	3

ELECTIVES (to be substituted whenever needed)

Sl. No.	Course of Study	L	T	P	C
1.	Structural Dynamics	3	0	0	3
2.	Models for Air and Water Quality	3	0	0	3
3.	Pavement Analysis and Design	3	0	0	3