

Revised Civil Engg. B.Tech. Curriculum (2025 Batch onwards)

Year 1 to Year 3

Course No.	Semester-I	L	T	P	C	Course No.	Semester-II	L	T	P	C
	Course Name						Course Name				
MA1105H	Single Variable Calculus	3	1	0	4	MA1205H	Linear Algebra	3	1	0	4
MA1117H	Multi Variable Calculus	3	1	0	4	CS1201	Introduction to Computer Programming with Python	3	0	0	6
PH1103H	Introductory Classical Mechanics	2	1	0	3	CS1204	Programming Laboratory	0	0	3	3
ME1108	Workshop Practice	0	0	3	3	CE1209	Introduction to Civil Engineering Drawing	1	0	3	5
CE1101	Introduction to Civil Engineering	1	0	0	2	CE1210	Civil Engineering Materials	3	0	0	6
CE1102	Probability and Statistics in Civil Engineering	3	0	0	6	CE1211L	Civil Engineering Materials Laboratory	0	0	3	3
CE1103	Structural Mechanics	3	1	0	8	CE1212	Engineering Geology	2	0	2	6
CE1104	Introduction to Geospatial Engineering	3	0	0	6	CE1213	Surveying	3	0	0	6
						CE1214L	Surveying Laboratory	0	0	3	3
		18	4	3	36			15	1	14	42
HS1xxx	English Communication*	2	0	2	0	SA1xxx	Students' Activity Course-I	0	0	2	0
							Minor Course-I	3	0	0	6
Course No.	Semester-III	L	T	P	C	Course No.	Semester-IV	L	T	P	C
	Course Name						Course Name				
MA21xxH	Ordinary Differential Equations	3	1	0	4	CE2201H	Ancient Indian (Civil) Engineering	2	0	0	2
MA21xxH	Partial Differential Equations	3	1	0	4	CE2202	Environmental Engineering - I	3	0	0	6
CE2101	Structural Analysis I	3	0	0	6	CE2203L	Environmental Engineering Laboratory - I	0	0	3	3
CE2103	Transportation Engineering I	3	0	0	6	CE2204	Geotechnical Engineering - I	3	0	0	6
CE2104L	Transportation Engineering I Laboratory	0	0	2	2	CE2205L	Geotechnical Engineering Laboratory- I	0	0	2	2
CE2105	Fluid Mechanics	3	0	0	6	CE2206	Reinforced Cement Concrete Design	3	1	0	8
CE2106L	Fluid Mechanics Laboratory	0	0	2	2	CE2207	Structural Analysis II	3	1	0	8
HS2xxx	HSS Elective-I Level-I	3	0	0	6	HS2xxx	HSS Elective-II Level-I	3	0	0	6
		18	2	4	36			17	2	5	41
SA2xxx	Student's Activity Course-II	0	0	2	0	SA2xxx	Students Activity Course-III	0	0	2	0
							Minor Course -III	3	0	0	6
Course No.	Semester-V	L	T	P	C	Course No.	Semester-VI	L	T	P	C
	Course Name						Course Name				
CE3101	Geotechnical Engineering II	3	0	0	6	CE3201	Transportation Engineering II	3	0	0	6
CE3102L	Geotechnical Engineering II Laboratory	0	0	2	2	CE3202L	Transportation Engineering II Laboratory	0	0	2	2

CE3103	Environmental Engineering II	3	0	0	6	CE3203	Engineering Hydrology	3	0	0	6
CE3104	Hydraulics and Hydraulics Structure	3	0	0	6	CE3204P	Design Project	1	0	3	5
CE3105L	Hydraulics and Hydraulics Structure Laboratory	0	0	2	2	XXxxxx	Open Elective - I	3	0	0	6
CE3106	Construction Technology and Management	3	0	0	6						
CE3107	Design of Steel Structures	3	1	0	8						
HS3xxx	HSS Elective-I Level-II	3	0	0	6	HS3xxx	HSS Elective-II Level-II	3	0	0	6
		18	1	4	42			13	0	5	31
SA3xxx	Students' Activity Course - IV	0	0	2	0						
	Minor Course- IV	3	0	0	6		Minor Course-V	3	0	0	6

A. Year 4

Option A: B. Tech with BTP

Course No.	Semester-VII	L	T	P	C	Course No.	Semester-VIII	L	T	P	C
	Course Name						Course Name				
CE4101P	B.Tech. Project - I	0	0	6	6	CE4201P	B.Tech. Project - II	0	0	6	6
CExxxx	Departmental Elective - II	3	0	0	6	CExxxx	Departmental Elective - VI/VII	3	0	0	6
CExxxx	Departmental Elective - III	3	0	0	6	CExxxx	Departmental Elective - VII/VIII	3	0	0	6
CExxxx	Departmental Elective - IV	3	0	0	6	CExxxx	Departmental Elective - VIII/IX	3	0	0	6
XXxxxx	Open Elective - II / Departmental Elective - V	3	0	0	6	XXxxxx	Open Elective - III / Departmental Elective - X	3	0	0	6
	Total	12	0	6	30		Total	12	0	6	30

Option B: B. Tech with Major

Course No.	Semester-VII	L	T	P	C	Course No.	Semester-VIII	L	T	P	C
	Course Name						Course Name				
CExxxx	Departmental Elective - I	3	0	0	6	CExxxx	Departmental Elective - V / VI	3	0	0	6
CExxxx	Departmental Elective - II	3	0	0	6	CExxxx	Departmental Elective - VI/VII	3	0	0	6
CExxxx	Departmental Elective - III	3	0	0	6	CExxxx	Departmental Elective - VII/VIII	3	0	0	6
CExxxx	Departmental Elective - IV	3	0	0	6	CExxxx	Departmental Elective - VIII/IX	3	0	0	6
XXxxxx	Open Elective - II / Departmental Elective - V	3	0	0	6	XXxxxx	Open Elective - III / Departmental Elective - X	3	0	0	6
	Total	15	0	0	30		Total	15	0	0	30

Option C: B. Tech with Industrial Internship

Course No.	Semester-VII	L	T	P	C	Course No.	Semester-VIII	L	T	P	C
	Course Name						Course Name				
CExxxx	Industrial Internship	0	0	18	18	CExxxx	Departmental Elective - V / VI	3	0	0	6
*CExxxx	Departmental Elective - IV	3	0	0	6	CExxxx	Departmental Elective - VI/VII	3	0	0	6
*XXxxxx	Open Elective - II / Departmental Elective - V	3	0	0	6	CExxxx	Departmental Elective - VII/VIII	3	0	0	6
						CExxxx	Departmental Elective - VIII/IX	3	0	0	6
						XXxxxx	Open Elective - III / Departmental Elective - X	3	0	0	6
	Total	6	0	18	30		Total	15	0	0	30

Total credits: 288

* Credits shall be earned in an earlier semester and claimed in the seventh semester, or may alternatively be earned through an NPTEL course.