

**B Tech Civil Engineering Course structure
(July 2018 onwards)**

Course No	Semester-I	L	T	P	C	Course No	Semester-II	L	T	P
	Course Name						Course Name			
CH101	Chemistry	3	1	0	8	BT101	Introduction to Biology	3	0	0
CH110	Chemistry Laboratory	0	0	3	3	CS101	Introduction to Computing	3	0	0
EE101	Basic Electronics	3	1	0	8	CS110	Computing Laboratory	0	0	3
MA101	Mathematics - I	3	1	0	8	EE102	Basic Electronics Laboratory	0	0	3
CE101	Engineering Drawing	2	0	3	7	MA102	Mathematics - II	3	1	0
PH101	Physics - I	2	1	0	6	ME101	Engineering Mechanics	3	1	0
PH110/ME110	Physics Laboratory/Workshop	0	0	3	3	PH102	Physics - II	2	1	0
						ME110/PH110	Workshop/Physics Laboratory	0	0	3
		13	4	9	43			14	3	9
HS101	English Communication*	2	0	2	0	SA1xx	Students Activity Course-I	0	0	2
Course No	Semester-III	L	T	P	C	Course No	Semester-IV	L	T	P
	Course Name						Course Name			
MA201	Mathematics-III	3	1	0	8	CE205	Structural Analysis -I	3	0	0
CE202	Solid Mechanics	3	1	0	8	CE201	Surveying	3	0	0
CE211	Civil Engineering Materials	3	0	0	6	CE213	Surveying Laboratory	0	0	2
CE212	Civil Engineering Materials Laboratory	0	0	3	3	CE206	Geotechnical Engineering-I	3	0	0
CE203	Fluid Mechanics	3	0	0	6	CE215	Geotechnical Engineering Laboratory-I	0	0	2
CE214	Fluid Mechanics Laboratory	0	0	2	2	CE222	Environmental Engineering-I	3	0	0
CE207	Engineering Geology	3	0	0	6	CE223	Environmental Engineering Laboratory - I	0	0	2
CE208	Engineering Geology Laboratory	0	0	2	2	CE220	Hydraulics and Hydraulics Structure	3	0	0
						CE221	Hydraulics and Hydraulics Structure Laboratory	0	0	2
						HS1xx	HSS Elective-I Level-I	3	0	0
		15	2	7	41			18	0	8
SA2xx	Students Activity Course-II	0	0	2	0	SA3xx	Students Activity Course-III	0	0	2
	Minor Course-I	3	0	0	6		Minor Course -II	3	0	0
HS200	Sustainable Development Goals ***	2	0	0	0					
Course No	Semester-V	L	T	P	C	Course No	Semester-VI	L	T	P
	Course Name						Course Name			
CE302	Structural Analysis II	3	1	0	8	CE308	Construction Technology and Management	3	0	0
CE305	Reinforced Concrete Design	3	1	0	8	CE309	Design of Steel Structure	3	1	0
CE303	Geotechnical Engineering II	3	0	0	6	CE322	Transportation Engineering II	3	0	0
CE313	Geotechnical Engineering II Laboratory	0	0	2	2	CE323	Transportation Engineering II Laboratory	0	0	2
CE304	Transportation Engineering I	3	0	0	6	CE320	Engineering Hydrology	3	0	0
CE314	Transportation Engineering I Laboratory	0	0	2	2	CE321	Hydrology Laboratory	0	0	2
CE316	Environmental Engineering II	3	0	0	6	CE 324	Mathematical Concepts and Applications in Civil Engineering	3	1	0
HS1xx	HSS Elective-II Level-I	3	0	0	6					
		18	2	4	44			15	2	4
SA4xx	Students' Activity Course - IV	0	0	2	0					
	Minor Course- III	3	0	0	6		Minor Course-IV	3	0	0
Course No	Semester-VII	L	T	P	C	Course No	Semester-VIII	L	T	P
	Course Name						Course Name			
CE498	B.Tech Project - I	0	0	6	6	CE499	B.Tech Project - II	0	0	6
CE402	Design Project	1	0	3	5	CExxx	Departmental Elective - IV	3	0	0
CExxx	Departmental Elective - II	3	0	0	6	CExxx	Departmental Elective - V	3	0	0
CExxx	Departmental Elective III	3	0	0	6	XXxxx	Open Elective-II	3	0	0
XXxxx	Open Elective-I	3	0	0	6	CExxx	General Course-2	2	0	0
								1	1	0
								1	0	2
HS2xx	HSS Elective-I Level-II	3	0	0	6	HS2xx	HSS Elective-II Level-II	3	0	0
		13	0	9	35			14	0	6
	Minor Course-V	3	0	0	6					

* Only for students lagging language proficiency, to be graded as PP or NP.

**Additional learning: Credits will not be included in SPI/CPI calculation, nor towards the total number of mandatory credits required to complete the degree programme.

*** Type of Letter Grading: PP/NP and Compulsory course for all B.Tech 3rd Semester Students

Total Mandatory Credits: 316