

**B.TECH. in Civil Engineering**

**CURRICULUM STRUCTURE**

SEM	SLOT	COURSE CATEGORY	COURSE CODE	COURSE NAME	L	T	J	P	S	C	CREDIT / SEM
I	A	BST	B250902/MA100A	Mathematics for Physical Science-1	3	1	0	0	2	3	20
	B	BSE	B250902/PH910B	Physics for Physical Science	3	0	0	2	3	4	
	C	EST	B250902/CE100C	Engineering Mechanics	2	1	0	0	3	3	
	D	EST	B250902/CN100D	Introduction to Mechanical Engineering and Civil Engineering	4	0	0	0	4	4	
	E	ESE	B250903/CN110E	Programming in Python	2	0	0	2	3	4	
	K	HMT	B250908/CN900K	Life Skills and Professional Communication	1	1	0	0	0	1	
	U	ESL	B250902/CN130U	Engineering Workshop	0	0	0	2	0	1	
	G	SEC		Skill Enhancement Course							
II	A	BST	B250902/MA200A	Mathematics for Physical Science-2	3	1	0	0	2	3	24
	B	BSE	B250902/CH910B	Chemistry for Physical Science	3	0	0	2	3	4	
	C	EST	B250902/CN200C	Engineering Graphics	2	0	0	2	2	3	
	D	EST	B250001/CE200D	Building Materials and Construction	4	0	0	0	4	4	
	E	PCT	B250001/CE200E	Mechanics of Solids	3	1	0	0	4	4	
	F	ESB	B250908/CN220F	Entrepreneurship and IPR	2	0	1	0	3	3	
	K	HMT	B250908/CN910K	Health and wellness	1	0	0	1	0	1	
	U	PCL	B250001/CE230U	Civil Engineering Planning and Drafting Lab	0	0	0	2	0	1	
G	SEC		Skill Enhancement Course						1		
III	A	BST	B250902/MA300A	Mathematics for Physical Science - 3	3	1	0	0	2	3	25
	B	PCE	B250001/CE310B	Surveying and Geomatics	3	1	0	3	5	6	
	C	PCT	B250001/CE300C	Structural Analysis I	3	1	0	0	4	4	
	D	PCB	B250001/CE320D	Hydrology and Water Resources Engineering	2	1	1	0	4	4	
	E	EST	B250001/CE300E	AI for Civil Engineering	3	0	0	0	5	4	
	F	HMT	B250908/HU900F	Engineering Economics	3	0	0	0	1	2	
	G		B250908/CN900F	Management for Engineers							
	M	PCL	B250001/CE330U	Material Testing Lab I	0	0	0	3	0	2	
IV	A	BST	B250902/MA400A	Mathematics for Physical Science -4	3	1	0	0	2	3	24
	B	PCE	B250001/CE410B	Fluid Mechanics	3	1	0	3	5	6	
	C	PCE	B250001/CE410C	Geotechnical Engineering	3	1	0	3	5	6	
	D	PCB	B250001/CE420D	Design of Concrete Structures	2	1	1	0	4	4	
	E	PET	B250001/CE41*E	Program Elective I- Theory	2	1	0	0	3	3	
	F	HMT	B250908/HU900F	Engineering Economics	3	0	0	0	1	2	
	M/H		B250908/CN900F	Management for Engineers							
V	A	PCT	B250001/CE500A	Quantity Surveying and Valuation	3	1	0	0	4	4	23
	B	PCE	B250001/CE510B	Structural Analysis II	3	1	0	3	5	6	
	C	PCE	B250001/CE510C	Transportation Engineering	3	1	0	3	5	5	

	D	PCB	B250001/CE520D	Foundation Engineering	2	1	1	0	4	4	
	E	PET	B250001/CE51*E	Program/ Industry Linked Elective II- Theory	2	1	0	0	3	3	
	K	HMT	B250908/CN500K	Constitution of India	2	0	0	0	0	1	
	M/H	M/H		Minor / Honours	4	0	0	0	4	4	
VI	A	PCT	B250001/CE600A	Design of Steel Structures	3	1	0	0	4	4	23
	B	PCE	B250001/CE610B	Environmental Engineering	3	1	0	3	3	5	
	C	PET	B250001/CE61*C	Program/ Industry Linked Elective III- Theory	3	1	0	0	2	3	
	D	PCB	B250001/CE620D	Civil Engineering Project Management	2	1	1	0	4	4	
	E	EST	B250908/CN600E	Design Thinking and Product Development	2	1	1	0	0	2	
	J	OET	B250908/CN6**J	Open Elective - Theory	2	0	0	0	4	3	
	F	PCL	B250001/CE630U	Material Testing Lab II	0	0	0	3	1	2	
M/H	M/H		Minor / Honours					6	3		
VII	A	PET	B250001/CE71*A	Program/ Industry Linked Elective IV- Theory	3	1	0	0	2	3	17
	B	PET	B250001/CE72*B	Program/ Industry Linked Elective V- Theory	3	1	0	0	2	3	
	J	HMT	B250908/CN700C	Engineering Ethics and Sustainable Development	3	0	0	0	1	2	
	K	OET	B250908/CN7**J	Open Elective - Theory	3	0	0	0	3	3	
	L	PSL	B250908/CN700T	Research Seminar	2	0	0	0	2	2	
	P	PSL	B250908/CN740U	Project	0	0	6	0	2	4	
	H	H		Honours					8	4	
VIII	A	PET	B250001/CE81*A	Program Elective VI- Theory	3	1	0	0	2	3	11
	J	OET	B250908/CN8**J	Open Elective - Theory	3	0	0	0	3	3	
	K	HMT	B250908/CN800K	Organizational Behavior and Business Communication	2	0	0	0	0	1	
	P	PSL	B250908/CN840U	Project	0	0	6	0	2	4	
Total Earned Credits										167	
Mandatory Student Activities										3	
TOTAL CREDITS										170	
MINOR										15	
HONOURS										15	
MANDATORY TOTAL CREDITS FOR AWARD OF DEGREE										157+3 = 160	