

Name of the Faculty : Faculty of Engineering & Technology

Name of the Program : Bachelor of Technology (Civil Engineering) : 2022-23 onwards

Semester/Year	Council Code (If any)	Subject Code (If already existing)	Nomenclature	Theory/ Practical/	Core/ AECC/ SEC/ VAC/ DSE/ GE	For ERP	Theory/Practical (Result Combined or Separate)	L	T	P	Credits	Contact Hours	Theory		Theory (Internal)			Practical				Practical (Internal)				Overall Pass Marks	Scheme of Examinations [Theory+Internal or Practical+Internal]								
													Max	Pass	Mid Term	Assignment	Professional Activities	Max	Pass	Demonstration/Presentation	Viva-voce	Max	Pass	Attendance	Mid Term			Project/Lab Work	Conduct/Demonstration	Max	Pass				
IV	-	13010401	Concrete Technology	Theory	Core	Core	Separate	3	-	-	3	3	60	24	20	10	10	40	16	-	-	-	-	-	-	-	-	-	-	-	40	Theory+Internal			
IV	-	13010402	Structural Analysis	Theory	Core	Core	Separate	3	-	-	3	3	60	24	20	10	10	40	16	-	-	-	-	-	-	-	-	-	-	-	40	Theory+Internal			
IV	-	13010422	Hydrology	Theory	Core	Core	Separate	3	-	-	3	3	60	24	20	10	10	40	16	-	-	-	-	-	-	-	-	-	-	-	40	Theory+Internal			
IV	-	13010423	Engineering Geology	Theory	Core	Core	Separate	3	-	-	3	3	60	24	20	10	10	40	16	-	-	-	-	-	-	-	-	-	-	-	40	Theory+Internal			
IV	-	13010406	Concrete Technology Lab	Practical	Core	Core	Separate	-	-	2	1	2	-	-	-	-	-	-	-	20	20	40	16	10	10	10	30	60	24	40	Practical+Internal				
IV	-	13010407	Structural Analysis Lab	Practical	Core	Core	Separate	-	-	2	1	2	-	-	-	-	-	-	-	20	20	40	16	10	10	10	30	60	24	40	Practical+Internal				
IV	-	13010424	Engineering Geology Lab	Practical	Core	Core	Separate	-	-	2	1	2	-	-	-	-	-	-	-	20	20	40	16	10	10	10	30	60	24	40	Practical+Internal				
IV	-	--	MGE	Theory	Core	GE	Separate	4	-	-	4	4	60	24	20	10	10	40	16	--	--	--	--	--	--	--	--	--	--	--	40	Theory + Internal			
IV	-	--	VAC	Theory	Core	VAC	Separate	2	-	-	2	2	30	12	10	5	5	20	8	--	--	--	--	--	--	--	--	--	--	--	20	Theory + Internal			
Total Credits for the Semester (Without Minor Specialization Subjects)								18	0	6	21																								
IV	-	13010425	Data analysis using Python	Theory	SEC	DSE	Separate	3	-	-	3		60	24	20	5	10	40	16	-	-	-	-	-	-	-	-	-	-	-	40	Theory+Internal			
IV	-	13010426	Data analysis using Python Lab	Practical	SEC	DSE	Separate	-	-	2	1		-	-	-	-	-	-	-	20	20	40	16	10	10	10	30	60	24	40	Practical+Internal				
Total Credits for the Semester (With Minor Specialization Subjects)								21	-	8	25																								
V	-	13010501	Reinforced Concrete Structure	Theory	Core	Core	Separate	3	-	-	3		60	24	20	10	10	40	16	-	-	-	-	-	-	-	-	-	-	-	40	Theory+Internal			
V	-	13010502	Water Treatment and Supply System	Theory	Core	Core	Separate	3	-	-	3		60	24	20	10	10	40	16	-	-	-	-	-	-	-	-	-	-	-	40	Theory+Internal			
V	-	13010503	Soil Mechanics	Theory	Core	Core	Separate	3	-	-	3		60	24	20	10	10	40	16	-	-	-	-	-	-	-	-	-	-	-	40	Theory+Internal			
V	-	13010524	Highway Engineering	Theory	Core	Core	Separate	3	-	-	3		60	24	20	10	10	40	16	-	-	-	-	-	-	-	-	-	-	-	40	Theory+Internal			
V	-	13010505	Water Treatment and Supply System Lab	Practical	Core	Core	Separate	-	-	2	1		-	-	-	-	-	-	-	20	20	40	16	10	10	10	30	60	24	40	Practical+Internal				
V	-	13010506	Soil Mechanics Lab	Practical	Core	Core	Separate	-	-	2	1		-	-	-	-	-	-	-	20	20	40	16	10	10	10	30	60	24	40	Practical+Internal				
V	-	13010525	Highway Engineering Lab	Practical	Core	Core	Separate	-	-	2	1		-	-	-	-	-	-	-	20	20	40	16	10	10	10	30	60	24	40	Practical+Internal				
V	-	13010526	Summer Internship –II	Practical	Core	Core	Separate	-	-	-	1									20	20	40	16	10	10	10	30	60	24	40	Practical+Internal				
V	-	--	MGE	Theory	Core	GE	Separate	4	-	-	4		60	24	20	10	10	40	16	--	--	--	--	--	--	--	--	--	--	--	40	Theory + Internal			
V	-	--	AECC	Theory	Core	AECC	Separate	2	-	-	2		30	12	10	5	5	20	8	--	--	--	--	--	--	--	--	--	--	--	20	Theory + Internal			
Total Credits for the Semester (Without Minor Specialization Subjects)								18	-	6	22																								
V	-	13010527	Introduction to AI and ML	Theory	SEC	DSE	Separate	3	-	-	3		60	24	20	10	10	40	16	-	-	-	-	-	-	-	-	-	-	-	40	Theory+Internal			
V	-	13010528	Introduction to AI and ML Lab	Practical	SEC	DSE	Separate	-	-	2	1		-	-	-	-	-	-	-	20	20	40	16	10	10	10	30	60	24	40	Practical+Internal				
Total Credits for the Semester (With Minor Specialization Subjects)								21	-	8	26																								
VI	-	13010602	Design of Steel Structures-I	Theory	Core	Core	Separate	3	-	-	3		60	24	20	10	10	40	16	-	-	-	-	-	-	-	-	-	-	-	40	Theory+Internal			
VI	-	13010601	Estimation and Costing	Theory	Core	Core	Separate	3	-	-	3		60	24	20	10	10	40	16	-	-	-	-	-	-	-	-	-	-	-	40	Theory+Internal			
VI	-	13010611	Design Lab	Practical	Core	Core	Separate	-	-	2	1		-	-	-	-	-	-	-	20	20	40	16	10	10	10	30	60	24	40	Practical+Internal				
-	-	-	Choose one of the following																																
VI	-	13010612	Reinforced Concrete Structures-II	Theory	DSE	DSE	Separate	3	-	-	3		60	24	20	10	10	40	16	-	-	-	-	-	-	-	-	-	-	-	40	Theory+Internal			

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													Max	Pass	Mid Term	Assignment	Professional Activities	Max	Pass	Demonstration/Presentation	Viva-voce	Max	Pass	Attendance	Mid Term	Project/Lab Work			Conduct/Demonstration	Max	Pass		
VI	-	13010613	Open channel flow	Theory	DSE	DSE	Separate	3	-	-	3		60	24	20	10	10	40	16	-	-	-	-	-	-	-	-	-	-	-	-	40	Theory+Internal
VI	-	13010614	Advanced Surveying	Theory	DSE	DSE	Separate	3	-	-	3		60	24	20	10	10	40	16	-	-	-	-	-	-	-	-	-	-	-	-	40	Theory+Internal
VI	-	13010615	Waste water treatment	Theory	DSE	DSE	Separate	3	-	-	3		60	24	20	10	10	40	16	-	-	-	-	-	-	-	-	-	-	-	-	40	Theory+Internal
	-		Choose one of the following																														
VI	-	13010608	Bridge engineering	Theory	DSE	DSE	Separate	3	-	-	3		60	24	20	10	10	40	16	-	-	-	-	-	-	-	-	-	-	-	-	40	Theory+Internal
VI	-	13010616	Ground water engineering	Theory	DSE	DSE	Separate	3	-	-	3		60	24	20	10	10	40	16	-	-	-	-	-	-	-	-	-	-	-	-	40	Theory+Internal
VI	-	13010617	Airport Planning and Design	Theory	DSE	DSE	Separate	3	-	-	3		60	24	20	10	10	40	16	-	-	-	-	-	-	-	-	-	-	-	-	40	Theory+Internal
VI	-	13010618	Earth and Environment	Theory	DSE	DSE	Separate	3	-	-	3		60	24	20	10	10	40	16	-	-	-	-	-	-	-	-	-	-	-	-	40	Theory+Internal
	-		Choose one of the following																														
VI	-	13010619	Reinforced Concrete Structures-II Lab	Practical	DSE	DSE	Separate	-	-	2	1		-	-	-	-	-	-	-	20	20	40	16	10	10	10	30	60	24	40	40	Practical+Internal	
VI	-	13010620	Open channel flow Lab	Practical	DSE	DSE	Separate	-	-	2	1		-	-	-	-	-	-	-	20	20	40	16	10	10	10	30	60	24	40	40	Practical+Internal	
VI	-	13010621	Advanced Surveying Lab	Practical	DSE	DSE	Separate	-	-	2	1		-	-	-	-	-	-	-	20	20	40	16	10	10	10	30	60	24	40	40	Practical+Internal	
VI	-	13010622	Waste water treatment Lab	Practical	DSE	DSE	Separate	-	-	2	1		-	-	-	-	-	-	-	20	20	40	16	10	10	10	30	60	24	40	40	Practical+Internal	
	-		Choose one of the following																														
VI	-	13010623	Bridge engineering Lab	Practical	DSE	DSE	Separate	-	-	2	1		-	-	-	-	-	-	-	20	20	40	16	10	10	10	30	60	24	40	40	Practical+Internal	
VI	-	13010624	Ground water engineering Lab	Practical	DSE	DSE	Separate	-	-	2	1		-	-	-	-	-	-	-	20	20	40	16	10	10	10	30	60	24	40	40	Practical+Internal	
VI	-	13010625	Airport Planning and Design Lab	Practical	DSE	DSE	Separate	-	-	2	1		-	-	-	-	-	-	-	20	20	40	16	10	10	10	30	60	24	40	40	Practical+Internal	
VI	-	13010626	Earth and Environment Lab	Practical	DSE	DSE	Separate	-	-	2	1		-	-	-	-	-	-	-	20	20	40	16	10	10	10	30	60	24	40	40	Practical+Internal	
VI	-	--	MGE	Theory	Core	GE	Separate	4	-	-	4		60	24	20	10	10	40	16	--	--	--	--	--	--	--	--	--	--	--	--	40	Theory + Internal
VI	-	--	AECC	Theory	Core	AECC	Separate	2	-	-	2		30	12	10	5	5	20	8	--	--	--	--	--	--	--	--	--	--	--	--	20	Theory + Internal
			Total Credits for the Semester (Without Minor Specialization)					18	6	21																							
VI	-	13010627	Data Mining	Theory	SEC	DSE	Separate	3	-	-	3		60	24	20	5	10	40	16	-	-	-	-	-	-	-	-	-	-	-	-	40	Theory+Internal
VI	-	13010628	Data Mining Lab	Practical	SEC	DSE	Separate	-	-	2	1		-	-	-	-	-	-	-	20	20	40	16	10	10	10	30	60	24	40	40	Practical+Internal	
			Total Credits for the Semester (With Minor Specialization Subjects)					21	-	8	25																						
VII	-	13010701	Irrigation Engineering	Theory	Core	Core	Separate	3	-	-	3		60	24	20	10	10	40	16	-	-	-	-	-	-	-	-	-	-	-	-	40	Theory+Internal
VII	-	13010702	Geotechnology	Theory	Core	Core	Separate	3	-	-	3		60	24	20	10	10	40	16	-	-	-	-	-	-	-	-	-	-	-	-	40	Theory+Internal
VI	-	13010706	Geotechnology Lab	Practical	Core	Core	Separate	-	-	2	1		-	-	-	-	-	-	-	20	20	40	16	10	10	10	30	60	24	40	40	Practical+Internal	
VII	-	13010720	Project	Practical	Core	Core	Separate	-	-	12	6		-	-	-	-	-	-	-	20	20	40	16	10	10	10	30	60	24	40	40	Practical+Internal	
VII	-	13010721	Summer Internship-III	Practical	Core	Core	Separate	-	-	0	2		-	-	-	-	-	-	-	20	20	40	16	10	10	10	30	60	24	40	40	Practical + Internal	
	-		Choose one of the following																														
VII	-	13010707	Design of Steel Structures-II	Theory	DSE	DSE	Separate	3	-	-	3		60	24	20	10	10	40	16	-	-	-	-	-	-	-	-	-	-	-	-	40	Theory+Internal
VII	-	13010722	Water Resources Systems Planning	Theory	DSE	DSE	Separate	3	-	-	3		60	24	20	10	10	40	16	-	-	-	-	-	-	-	-	-	-	-	-	40	Theory+Internal

