

Faculty of Engineering & Technology																															
Name of the Program (As to be printed on the Degree Certificate) : Bachelor of Technology in Civil Engineering (Artificial Intelligence and Data Science)																															
Session: 2023-24 Onwards																															
S. No.	Semester/Year/Prof	Council Code (If any)	Subject Code	Nomenclature	Theory/ Practical/	Core/ DSE/ AECC/ SEC/ VAC/ GE/ MDGE/Subsidiary	Theory/Practical (Result Combined or Separate)	L	T	P	Credits	Theory		Theory (Internal)				Practical			Practical (Internal)				Overall Pass Marks	End Term Examination Overall Passing Criteria: Theory: [External+Internal] or Practical: [External+Internal]	If Combined: Theory+ Practical				
												Max	Pass	Attendance Marks	Mid Term Weightage	Assignment	Professional Activities	Max	Pass	Demonstration/Presentation	Viva-voice	Max	Pass	Attendance				Project/Laboratory Work/ Lab Performance	Midterm oral Examination / assessment	Max	Pass
1	I/I		130101111	Engineering Mathematics-I	Theory	Core	Separate	3	0	0	3	60	24	5	20	5	10	40	16	-	-	-	-	-	-	-	40	External+Internal			
2			130101112	Programming for Problem Solving	Theory	Core	Separate	2	0	0	2	60	24	5	20	5	10	40	16	-	-	-	-	-	-	-	40	External+Internal			
3			130101113	Programming for Problem Solving Lab	Practical	Core	Separate	0	0	4	2	-	-	-	-	-	-	-	-	20	10	30	12	5	5	10	20	8	20	External+Internal	
4			130101114	Engineering Workshop	Theory	Core	Separate	1	0	0	1	60	24	5	20	5	10	40	16	-	-	-	-	-	-	-	-	40	External+Internal		
5			130101115	Engineering Workshop Lab	Practical	Core	Separate	0	0	4	2	-	-	-	-	-	-	-	-	20	10	30	12	5	5	10	20	8	20	External+Internal	
6			130101116	Design Thinking	Practical	Core	Separate	0	0	4	2	-	-	-	-	-	-	-	-	20	10	30	12	5	5	10	20	8	20	External+Internal	
7			--	Multidisciplinary Generic Elective (MGE)-I	Theory	MGE	Separate	4	0	0	4	60	24	-	20	10	10	40	16	-	-	-	-	-	-	-	-	40	External+Internal		
8			--	Value Added Course (VAC)-I	Theory	VAC	Separate	2	0	0	2	30	12	-	10	5	5	20	8	-	-	-	-	-	-	-	-	20	External+Internal		
9			--	AECC-I	Theory	AECC	Separate	2	0	0	2	30	12	-	10	5	5	20	8	-	-	-	-	-	-	-	-	20	External+Internal		
Total Credits of the Semester for Bachelor of Technology in Civil Engineering								14	0	12	20																				
1	II/I		130102111	Engineering Mathematics-II	Theory	Core	Separate	3	0	0	3	60	24	5	20	5	10	40	16	-	-	-	-	-	-	-	40	External+Internal			
2			130102112	Basics of Electrical & Electronics Engineering	Theory	Core	Separate	2	0	0	2	60	24	5	20	5	10	40	16	-	-	-	-	-	-	-	-	40	External+Internal		
3			130102113	Basics of Electrical & Electronics Engineering Lab	Practical	Core	Separate	0	0	4	2	-	-	-	-	-	-	-	-	20	10	30	12	5	5	10	20	8	20	External+Internal	
4			130102114	Engineering Graphics and Design	Theory	Core	Separate	1	0	0	1	60	24	5	20	5	10	40	16	-	-	-	-	-	-	-	-	-	40	External+Internal	
5			130102115	Engineering Graphics and Design Lab	Practical	Core	Separate	0	0	4	2	-	-	-	-	-	-	-	-	20	10	30	12	5	5	10	20	8	20	External+Internal	
6			130102116	New Age Skills	Practical	Core	Separate	0	0	4	2	-	-	-	-	-	-	-	-	20	10	30	12	5	5	10	20	8	20	External+Internal	
7			--	Multidisciplinary Generic Elective (MGE)-II	Theory	MGE	Separate	4	0	0	4	60	24	-	20	10	10	40	16	-	-	-	-	-	-	-	-	40	External+Internal		
8			--	Value Added Course (VAC)-II	Theory	VAC	Separate	2	0	0	2	30	12	-	10	5	5	20	8	-	-	-	-	-	-	-	-	20	External+Internal		
9			--	AECC-II	Theory	AECC	Separate	2	0	0	2	30	12	-	10	5	5	20	8	-	-	-	-	-	-	-	-	20	External+Internal		
Total Credits of the Semester for Bachelor of Technology in Civil Engineering								14	0	12	20																				
1	III/II		130103111	Strength of Materials	Theory	Core	Separate	3	0	0	3	60	24	5	20	5	10	40	16	-	-	-	-	-	-	-	40	External+Internal			
2			130103112	Strength of Materials Lab	Practical	Core	Separate	0	0	2	1	-	-	-	-	-	-	-	-	20	10	30	12	5	5	10	20	8	20	External+Internal	
3			130103113	Surveying	Theory	Core	Separate	2	0	0	2	60	24	5	20	5	10	40	16	-	-	-	-	-	-	-	-	40	External+Internal		
4			130103114	Surveying Lab	Practical	Core	Separate	0	0	4	2	-	-	-	-	-	-	-	-	20	10	30	12	5	5	10	20	8	20	External+Internal	
5			130103115	Building Construction & Material	Theory	Core	Separate	2	0	0	2	60	24	5	20	5	10	40	16	-	-	-	-	-	-	-	-	40	External+Internal		
6			--	Multidisciplinary Generic Elective (MGE)-III	Theory	MGE	Separate	4	0	0	4	60	24	-	20	10	10	40	16	-	-	-	-	-	-	-	-	40	External+Internal		
7			--	Value Added Course (VAC)-III	Theory	VAC	Separate	2	0	0	2	30	12	-	10	5	5	20	8	-	-	-	-	-	-	-	-	20	External+Internal		
8			--	AECC-III	Theory	AECC	Separate	2	0	0	2	30	12	-	10	5	5	20	8	-	-	-	-	-	-	-	-	20	External+Internal		
9			130103116	Summer Internship	Practical	Core	Separate	0	0	2	1	-	-	-	-	-	-	-	-	20	10	30	12	5	5	10	20	8	20	External+Internal	
Choose one of the following																															
10			130103117	Civil Infrastructure and Society	Theory (Program Elective-I)	DSE	Separate	3	0	0	3	60	24	5	20	5	10	40	16	-	-	-	-	-	-	-	-	40	External+Internal		
			130103118	Structural Mechanics																											
			130103119	Introduction To Sustainable development																											
			130103120	Air, Noise Pollution and Control																											
Total Credits of the Semester for Bachelor of Technology in Civil Engineering								18	0	8	22																				
11		-	130103121	Introduction To Data Science	Theory	DSE	Separate	3	0	0	3	60	24	5	20	5	10	40	16	-	-	-	-	-	-	-	40	External+Internal			
12		-	130103122	Introduction To Data Science LAB	Practical	DSE	Separate	0	0	2	1	-	-	-	-	-	-	-	-	20	10	30	12	5	5	10	20	8	20	External+Internal	
Total Credits of the Semester for Bachelor of Technology in Civil Engineering (Artificial Intelligence and Data Science)								21	0	10	26																				
1			130104111	Structural Analysis	Theory	Core	Separate	3	0	0	3	60	24	5	20	5	10	40	16	-	-	-	-	-	-	-	40	External+Internal			
2			130104112	Fluid Mechanics	Theory	Core	Separate	3	0	0	3	60	24	5	20	5	10	40	16	-	-	-	-	-	-	-	40	External+Internal			

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3		130104113		Fluid Mechanics Lab	Practical	Core	Separate	0	0	2	1	-	-	-	-	-	-	-	20	10	30	12	5	5	10	20	8	20	External+Internal		

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																									Max	Pass	Max	Pass				Max	Pass	Max
1	VIII/ IV		130108111	Earthquake Engineering	Theory	Core	Separate	3	0	0	3	60	24	5	20	5	10	40	16	-	-	-	-	-	-	-	-	-	40	External+Internal				
2			130108112	Entrepreneurship & Digital Product Management	Practical	Core	Separate	0	0	4	2	-	-	-	-	-	-	-	-	20	10	30	12	5	5	10	20	8	20	External+Internal				
3			130108113	Civil Engineering Simulation Lab	Practical	Core	Separate	0	0	4	2	-	-	-	-	-	-	-	-	20	10	30	12	5	5	10	20	8	20	External+Internal				
4			130108114	Research Project/ Dissertation	Practical	Core	Separate	0	0	20	10	-	-	-	-	-	-	-	-	60	60	120	48	20	20	40	80	32	80	External+Internal				
				Choose one of the following																														
				130108115	Structural Dynamics	Theory (Program Elective-VI)	DSE	Separate	3	0	0	3	60	24	5	20	5	10	40	16	-	-	-	-	-	-	-	-	-	-	-	40	External+Internal	
			130108116	Stochastic Hydrology																														
			130108117	New Age Transit System																														
			130108118	Urban Environmental Quality Management																														
								Total Credits of the Semester for Bachelor of Technology in Civil Engineering										6	0	28	20													

Important Related Information	
Total credits required for the degree Bachelor of Technology in Civil Engineering	160
Total credits required for the degree Bachelor of Technology in Civil Engineering (Artificial Intelligence and Data Science)	180
Is there provision for Internal Marks Revision	As Per University Norms
Number of chances for reappear	As Per University Norms
Promotion Criteria	As Per University Norms