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4TH YEAR - 7TH SEMESTER					LOC	UNDERGRADUATE PROGRAMME OUTCOMES (PO)																											
COURSE CODE	COURSE NAME	T	P	ECTS		PO 1				PO 2		PO 3		PO 4		PO 5		PO 6		PO 7				PO 8		PO 9		PO 10		PO 11			
						PO1.1	PO1.2	PO1.3	PO1.4	PO2.1	PO2.2	PO3.1	PO3.2	PO4.1	PO4.2	PO5.1	PO5.2	PO6.1	PO6.2	PO6.3	PO7.1	PO7.2	PO7.3	PO7.4	PO8.1	PO8.2	PO9.1	PO9.2	PO10.1	PO10.2	PO11.1	PO11.2	
INS4000	GRADUTION THESIS	0	2	5	LOC1	1	3	3	3	2	3	2	2	3	3	2	3	2	5	3	3	2	4	3	5	5	4	5	3	4			
					LOC2	2	3	2	2	3	2	3	3	2	3	4	3	4	2	3	3	5	3	3	4	4	4	3	4	4			
					LOC3	2	0	3	3	1	3	2	3	3	2	3	2	5	3	3	3	4	4	2	4	3	3	2	5	4			
					LOC4	3	2	3	3	3	2	3	2	2	3	2	3	5	2	4	3	2	5	5	3	3	4	4	5	4	5	2	
					LOC5	1	1	3	2	2	1	3	1	3	3	3	5	3	5	2	3	3	4	3	4	3	5	4	3	4	4		
					LOC6	3	3	3	1	3	2	3	3	3	2	2	2	4	3	5	3	3	5	5	3	3	3	5	3	2	5	3	
					LOC7	3	1	2	3	2	2	2	2	2	3	3	3	2	4	2	3	4	4	3	2	3	4	3	3	3	2		
					LOC8	0	0	2	1	0	0	0	1	1	4	1	1	3	1	3	1	2	5	5	1	2	2	2	1	1	1	1	
					LOC9	0	0	1	2	0	0	0	1	1	0	2	1	3	1	3	1	2	5	5	1	2	2	2	2	1	1	1	1
					INS4003	STEEL STRUCTURES	3	0	4	LOC1	3	2	3	3	2	3	2	2	2	0	0	0	0	0	0	0	0	0	0	5	0	0	0
LOC2	1	2	2	2						3	5	2	2	2	0	0	0	0	0	0	0	0	0	0	0	0	4	0	0	0	0		
LOC3	1	2	2	1						3	5	2	2	1	0	0	0	0	0	0	0	0	0	0	0	0	4	0	0	0	0		
LOC4	1	2	3	2						3	4	3	2	1	0	0	0	0	0	0	3	0	0	0	0	0	5	0	0	0	0	0	

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2ND YEAR - 3RD SEMESTER TECHNICAL ELECTIVE COURSES					LOC	UNDERGRADUATE PROGRAMME OUTCOMES (PO)																												
COURSE CODE	COURSE NAME	T	P	ECTS		PO 1				PO 2		PO 3		PO 4		PO 5		PO 6			PO 7				PO 8		PO 9		PO 10		PO 11			
						PO1.1	PO1.2	PO1.3	PO1.4	PO2.1	PO2.2	PO3.1	PO3.2	PO4.1	PO4.2	PO5.1	PO5.2	PO6.1	PO6.2	PO6.3	PO7.1	PO7.2	PO7.3	PO7.4	PO8.1	PO8.2	PO9.1	PO9.2	PO10.1	PO10.2	PO11.1	PO11.2		
INS2043	INTRODUCTION TO ARTIFICIAL INTELLIGENCE	2	0	3	LOC1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	4	0	0	0	0	0	0				
					LOC2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0			
					LOC3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	3	0	0	0	0	0	0		
					LOC4	0	0	0	0	0	0	0	0	0	5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
					LOC5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	4	0	0	0	0	0	0	0	
					LOC6	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
					LOC7	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	3	0	0	0	0	0	3	0	0	0	0	0	0	0
					LOC8	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	3	4	0	0	0	0	0	0	
					INS2045	INTRODUCTION TO DATA MINING	2	0	3	LOC1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	3	0	0	0	0	0	0	0
					LOC2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	3	0	0	0	0	0	0			
					LOC3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	3	0	0	0	0	0	0	0		
					LOC4	0	0	0	0	0	0	0	0	5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
					LOC5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
					LOC6	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	3	0	0	0	0	0	0	0	0	
					LOC7	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	4	0	0	0	0	0	0	0	0
					LOC8	0	0	0	0	0	0	0	0	0	4	0	0	0	0	0	0	0	0	0	3	0	0	0	0	0	0	0	0	0
					LOC9	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	3	0	0	0	0	0	0	0	0	0	0	0	0	0
					INS2047	SMART BUILDINGS AND SUSTAINABLE SYSTEM	2	0	3	LOC1	0	0	0	0	0	0	4	3	2	0	0	0	0	3	0	0	0	0	3	2	0	2	0	0
					LOC2	0	0	0	0	0	0	3	4	1	0	0	0	0	2	0	0	0	0	4	1	0	3	0	0	0	0			
					LOC3	0	0	0	0	0	0	0	4	2	2	0	0	0	0	3	0	0	0	0	4	2	0	3	0	0	0	0	0	
					LOC4	0	0	0	0	0	0	0	5	4	2	0	0	0	0	3	0	0	0	0	3	2	0	2	0	0	0	0	0	

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INS2058	HISTORY OF SCIENCE AND PHILOSOPHY	2	0	4	LOC1	0	0	0	0	0	0	0	0	0	0	0	0	1	0	2	2	0	0	0	4	4	0	0	0	0	0	0
					LOC2	0	0	0	0	0	0	0	0	0	0	0	0	1	0	2	2	0	0	0	4	4	0	0	0	0	0	0
					LOC3	0	0	0	0	0	0	0	0	0	0	0	0	1	0	2	2	0	0	0	4	4	0	0	0	0	0	0
INS2062	URBANIZATION PROBLEMS	2	0	4	LOC1	0	0	0	0	0	0	0	0	0	0	0	1	0	2	2	0	0	0	2	2	2	2	3	3	4	4	
					LOC2	0	0	0	0	0	0	0	0	0	0	1	0	2	2	0	0	0	0	2	2	2	2	3	3	5	4	
					LOC3	0	0	0	0	0	0	0	0	0	0	1	0	2	2	0	0	0	0	2	2	2	2	3	3	5	4	
					LOC4	0	0	0	0	0	0	0	0	0	0	1	0	2	2	0	0	0	0	2	2	2	2	3	3	5	4	
					LOC5	0	0	0	0	0	0	0	0	0	0	1	0	2	2	0	0	0	0	2	2	2	2	3	3	5	3	
					LOC6	0	0	0	0	0	0	0	0	0	0	1	0	2	2	0	0	0	0	2	2	2	2	3	3	5	4	
INS2068	DEMOCRACY AND HUMAN RIGHTS	2	0	4	LOC1	0	0	0	0	0	0	0	0	0	0	0	1	0	2	2	0	0	0	4	4	0	0	0	0	0	0	
					LOC2	0	0	0	0	0	0	0	0	0	0	1	0	2	2	0	0	0	0	4	3	0	0	0	0	0	0	
					LOC3	0	0	0	0	0	0	0	0	0	0	1	0	2	2	0	0	0	0	4	4	0	0	0	0	0	0	
					LOC4	0	0	0	0	0	0	0	0	0	0	1	0	2	2	0	0	0	0	4	3	0	0	0	0	0	0	
					LOC5	0	0	0	0	0	0	0	0	0	0	1	0	2	2	0	0	0	0	4	4	0	0	0	0	0	0	
					LOC6	0	0	0	0	0	0	0	0	0	0	1	0	2	2	0	0	0	0	4	3	0	0	0	0	0	0	
					LOC7	0	0	0	0	0	0	0	0	0	0	1	0	2	2	0	0	0	0	4	4	0	0	0	0	0	0	
					LOC8	0	0	0	0	0	0	0	0	0	0	1	0	2	2	0	0	0	0	4	4	0	0	0	0	0	0	
INS2074	GERMAN	2	0	4	LOC1	0	0	0	0	0	0	0	0	0	0	2	0	2	5	4	4	2	1	2	0	0	0	0	0	0		
					LOC2	0	0	0	0	0	0	0	0	0	0	2	0	2	5	4	4	4	2	1	2	0	0	0	0	0	0	
					LOC3	0	0	0	0	0	0	0	0	0	0	2	0	2	5	4	4	4	2	1	2	0	0	0	0	0	0	
					LOC4	0	0	0	0	0	0	0	0	0	0	2	0	2	5	4	4	4	2	1	2	0	0	0	0	0	0	
					LOC5	0	0	0	0	0	0	0	0	0	0	2	0	2	4	4	4	4	2	1	2	0	0	0	0	0	0	
					LOC6	0	0	0	0	0	0	0	0	0	0	2	0	2	4	4	4	4	2	1	2	0	0	0	0	0	0	
					LOC7	0	0	0	0	0	0	0	0	0	0	2	0	2	5	3	3	3	2	1	2	0	0	0	0	0	0	
					LOC8	0	0	0	0	0	0	0	0	0	0	2	0	2	5	4	4	4	2	1	2	0	0	0	0	0	0	
					LOC9	0	0	0	0	0	0	0	0	0	0	2	0	2	5	4	4	4	2	1	2	0	0	0	0	0	0	
					LOC10	0	0	0	0	0	0	0	0	0	0	2	0	2	4	4	4	4	2	1	2	0	0	0	0	0	0	
INS2076	COMMUNICATION	2	0	4	LOC1	0	0	0	0	0	0	0	0	0	0	0	0	1	5	3	4	4	3	3	2	2	0	0	0	0	0	
					LOC2	0	0	0	0	0	0	0	0	0	0	0	0	1	5	3	4	3	3	2	2	0	0	0	0	0	0	
					LOC3	0	0	0	0	0	0	0	0	0	0	0	0	1	5	3	4	3	3	2	2	0	0	0	0	0	0	
					LOC4	0	0	0	0	0	0	0	0	0	0	0	0	1	5	3	4	2	2	2	2	0	0	0	0	0	0	
					LOC5	0	0	0	0	0	0	0	0	0	0	0	0	1	5	3	4	3	3	2	2	0	0	0	0	0	0	
INS2078	CHINESE	2	0	4	LOC	0	0	0	0	0	0	0	0	0	0	2	0	2	5	4	4	2	1	2	0	0	0	0	0	0		
INS2080	RUSSIAN	2	0	4	LOC	0	0	0	0	0	0	0	0	0	0	2	0	2	5	4	4	2	1	2	0	0	0	0	0	0		
INS2082	KAZAKH	2	0	4	LOC	0	0	0	0	0	0	0	0	0	0	2	0	2	5	4	4	2	1	2	0	0	0	0	0	0		
INS2084	ENTREPRENEURSHIP	4	0	4	LOC1	0	0	0	0	0	0	0	0	0	0	0	0	0	5	0	3	4	2	1	2	0	0	5	0	0		
					LOC2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	5	0	3	4	2	1	2	0	0	4	0	0	
					LOC3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	5	0	3	3	2	1	2	0	0	5	0	0	
					LOC4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	5	0	3	3	2	1	2	0	0	4	0	0	
					LOC5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	5	0	3	4	2	1	2	0	0	5	0	0	
					LOC6	0	0	0	0	0	0	0	0	0	0	0	0	0	0	5	0	3	3	2	1	2	0	0	4	0	0	
					LOC7	0	0	0	0	0	0	0	0	0	0	0	0	0	0	5	0	2	3	2	1	1	0	0	5	0	0	
					LOC8	0	0	0	0	0	0	0	0	0	0	0	0	0	0	5	0	3	3	2	1	2	0	0	5	0	0	
					LOC9	0	0	0	0	0	0	0	0	0	0	0	0	0	0	5	0	3	4	2	1	2	0	0	4	0	0	

					LOC8	2	2	3	4	4	3	1	0	0	0	0	0	0	0	0	2	2	3	3	0	0	0	0		
					LOC9	3	2	3	5	3	3	3	0	0	0	0	0	0	0	0	0	0	2	2	2	2	0	0	0	0
					LOC10	3	2	3	5	4	3	2	0	0	0	0	0	0	0	0	0	0	1	2	3	3	0	0	0	0
					INS3023	ADVANCED MATERIALS OF CONSTRUCTION			2	0	4	LOC1	0	0	0	0	1	2	0	3	4	0	0	0	0	0	0	0	0	0
					LOC2	0	0	0	0	0	1	0	4	3	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
					LOC3	0	0	0	0	1	2	0	3	4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
					LOC4	0	0	0	0	1	2	0	4	4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
					INS3025	REINFORCED SOILS			2	0	4	LOC1	2	1	3	4	4	4	3	3	3	0	0	0	0	0	0	1	1	0
					LOC2	2	1	3	4	4	4	3	3	3	0	0	0	0	0	0	1	1	0	0	0	0	0			
					LOC3	2	1	3	4	4	4	3	3	3	0	0	0	0	0	0	0	0	1	1	0	0	0	0	0	
					LOC4	2	1	3	4	4	4	3	3	3	0	0	0	0	0	0	0	0	1	1	0	0	0	0	0	

4TH YEAR - 7TH SEMESTER TECHNICAL ELECTIVE COURSES					LOC	UNDERGRADUATE PROGRAMME OUTCOMES (PO)																											
COURSE CODE	COURSE NAME	T	P	ECTS		PO 1				PO 2		PO 3		PO 4		PO 5		PO 6			PO 7				PO 8		PO 9		PO 10		PO 11		
						PO1.1	PO1.2	PO1.3	PO1.4	PO2.1	PO2.2	PO3.1	PO3.2	PO4.1	PO4.2	PO5.1	PO5.2	PO6.1	PO6.2	PO6.3	PO7.1	PO7.2	PO7.3	PO7.4	PO8.1	PO8.2	PO9.1	PO9.2	PO10.1	PO10.2	PO11.1	PO11.2	
INS4015	ENGINEERING ECONOMY	2	0	4	LOC1	3	2	2	3	4	4	0	0	0	0	0	0	2	2	2	2	0	0	2	2	2	2	2	4	3	2	2	
					LOC2	3	2	2	3	4	4	0	0	0	0	0	0	2	2	2	3	0	0	3	2	2	3	3	4	3	3	3	
					LOC3	3	2	2	3	4	4	0	0	0	0	0	0	2	2	2	3	0	0	3	2	2	3	3	4	2	3	3	3
INS4017	CONSTRUCTION SITE TECHNOLOGY AND MEASUREMENT	2	0	4	LOC1	2	2	2	2	2	3	4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	4	4	2	3	2	2	
					LOC2	3	2	2	3	2	3	4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	4	4	3	3	2	4
					LOC3	2	2	2	2	2	3	4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	5	4	3	4	4	2
					LOC4	3	2	2	3	2	3	4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	5	3	2	3	3

4TH YEAR - 8TH SEMESTER TECHNICAL ELECTIVE COURSES I and II					LOC	UNDERGRADUATE PROGRAMME OUTCOMES (PO)																												
COURSE CODE	COURSE NAME	T	P	ECTS		PO 1				PO 2		PO 3		PO 4		PO 5		PO 6			PO 7				PO 8		PO 9		PO 10		PO 11			
						PO1.1	PO1.2	PO1.3	PO1.4	PO2.1	PO2.2	PO3.1	PO3.2	PO4.1	PO4.2	PO5.1	PO5.2	PO6.1	PO6.2	PO6.3	PO7.1	PO7.2	PO7.3	PO7.4	PO8.1	PO8.2	PO9.1	PO9.2	PO10.1	PO10.2	PO11.1	PO11.2		
INS4004	RIVER HYDRAULICS	3	0	4	LOC1	3	3	3	2	5	3	0	0	5	3	2	2	3	0	2	1	0	2	2	1	1	2	2	3	0	0	0		
					LOC2	3	3	5	2	2	3	0	0	1	3	2	2	3	0	2	1	0	2	2	1	1	2	2	3	0	0	0		
					LOC3	3	3	3	5	2	3	0	0	1	3	2	2	3	0	2	1	0	2	2	1	1	2	2	3	0	0	0		
					LOC4	3	3	3	2	2	4	0	0	1	3	2	2	3	0	2	1	0	2	2	1	1	2	2	3	0	0	0		
					LOC5	3	3	3	2	2	3	0	0	1	3	2	2	3	0	2	1	0	2	2	1	1	2	2	3	0	0	0		
					LOC6	3	3	3	2	2	3	0	0	1	3	2	2	3	0	2	1	0	2	2	1	1	2	2	3	0	0	0		
					LOC1	0	0	4	0	5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
	DAMS	3	0	4	LOC2	0	0	5	0	0	3	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0		
					LOC3	0	0	0	5	5	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	3	0	0	
					LOC4	3	0	0	0	0	3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	2	0	0	0	2	
					LOC5	0	3	0	0	0	3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	
					LOC6	0	0	0	4	5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2	0	0	0	0	0	
					LOC1	2	2	3	3	1	1	3	3	3	0	0	0	0	0	0	0	0	3	0	2	0	0	0	3	1	0	2	0	
	MULTI STOREY STEEL STRUCTURES	3	0	4	LOC2	2	2	1	1	0	2	4	3	2	0	0	0	0	0	0	0	0	2	0	1	0	0	0	3	1	0	1	0	
					LOC3	3	1	3	3	0	4	4	3	3	0	0	0	0	0	0	0	0	2	0	1	0	0	1	0	0	2	0	0	
					LOC4	2	2	2	2	1	1	2	2	1	0	0	0	0	0	0	0	1	0	1	0	0	0	2	0	0	0	0	0	
					LOC5	2	2	2	1	0	1	3	3	2	0	0	0	0	0	0	0	0	3	0	1	0	0	2	1	0	1	0	0	
					LOC6	2	1	2	3	0	3	4	3	1	0	0	0	0	0	0	0	0	3	0	1	0	0	3	0	0	0	0	0	
					LOC7	2	2	3	3	1	1	3	2	3	0	0	0	0	0	0	0	0	2	0	1	0	0	1	1	0	1	0	0	
	INTRODUCTION TO CONCRETE TECHNOLOGY	3	0	4	LOC8	1	1	2	2	0	4	2	2	2	0	0	0	0	0	0	0	0	2	0	2	0	0	0	3	1	0	2	0	
					LOC1	2	0	2	2	2	3	3	1	0	4	4	0	0	0	2	0	0	3	2	0	0	0	2	1	0	0	0	0	
					LOC2	1	1	1	1	1	2	2	4	3	0	5	4	0	0	3	0	0	2	2	0	0	1	3	0	0	0	0	0	
					LOC3	0	2	0	2	2	1	3	4	2	0	5	4	0	0	2	0	0	3	2	0	0	2	2	0	0	0	0	0	
					LOC4	2	1	2	2	1	2	3	3	3	0	4	0	0	0	0	3	0	0	2	2	0	0	2	3	0	0	0	0	
					LOC1	0	0	0	0	1	2	0	3	4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
	PRESTRESSED CONCRETE	3	0	4	LOC2	0	0	0	0	1	2	0	3	3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
					LOC3	0	0	0	0	1	2	0	3	3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
					LOC4	0	0	0	0	0																								

[illegible]

4TH YEAR - 8TH SEMESTER TECHNICAL ELECTIVE DESIGN COURSE I I and II					LOC	UNDERGRADUATE PROGRAMME OUTCOMES (PO)																													
COURSE CODE	COURSE NAME	T	P	ECTS		PO 1				PO 2		PO 3		PO 4		PO 5		PO 6			PO 7				PO 8		PO 9		PO 10		PO 11				
						PO1.1	PO1.2	PO1.3	PO1.4	PO2.1	PO2.2	PO3.1	PO3.2	PO4.1	PO4.2	PO5.1	PO5.2	PO6.1	PO6.2	PO6.3	PO7.1	PO7.2	PO7.3	PO7.4	PO8.1	PO8.2	PO9.1	PO9.2	PO10.1	PO10.2	PO11.1	PO11.2			
INS4062	DESIGN OF REINFORCED CONCRETE STRUCTURES	2	1	6	LOC1	3	3	3	3	5	0	5	0	3	0	0	0	3	3	3	2	2	0	2	2	2	2	0	4	5	0	4	0		
					LOC2	3	3	3	2	5	0	5	0	3	0	0	0	3	3	3	2	2	0	2	2	2	2	2	0	2	5	0	4	0	
					LOC3	2	3	2	3	4	0	3	0	3	0	0	0	2	3	3	2	0	2	2	1	2	0	4	4	0	3	0	4	0	
					LOC4	3	3	3	3	5	0	5	0	3	0	0	0	3	3	3	2	0	2	2	2	2	0	3	5	0	4	0	4	0	
					LOC5	3	3	3	3	5	0	4	0	3	0	0	0	3	2	3	2	0	2	2	2	2	0	4	4	0	4	0	4	0	
					LOC6	3	2	3	3	5	0	5	0	2	0	0	0	3	3	3	2	0	2	2	2	2	1	0	4	5	0	4	0	4	0
					LOC7	3	3	3	3	3	0	4	0	3	0	0	0	3	2	3	2	0	2	2	2	2	2	0	3	5	0	4	0	4	0
					LOC8	3	3	3	2	5	0	5	0	3	0	0	0	3	3	3	2	0	2	2	2	2	2	0	4	4	0	3	0	4	0
					LOC9	3	3	3	3	5	0	5	0	3	0	0	0	3	3	3	2	0	2	2	2	2	2	0	4	5	0	4	0	4	0
					LOC10	3	3	3	3	5	0	5	0	2	0	0	0	3	3	3	2	0	2	2	2	2	2	0	4	5	0	3	0	4	0
					LOC11	2	3	3	3	5	0	5	0	3	0	0	0	3	3	3	2	0	2	2	2	1	1	0	4	5	0	4	0	4	0
					LOC12	3	3	3	3	4	0	5	0	3	0	0	0	2	3	3	2	0	2	2	2	2	2	0	3	4	0	3	0	4	0
					LOC13	3	3	3	3	5	0	5	0	3	0	0	0	3	3	3	2	0	2	2	2	2	2	0	4	5	0	4	0	4	0
					LOC14	3	3	3	3	5	0	4	5	3	0	0	0	3	3	3	2	0	2	2	2	2	2	0	4	5	0	4	0	4	0
					INS4064	DESIGN OF STEEL STRUCTURES	2	1	6	LOC1	2	3	3	3	5	0	5	4	3	0	0	0	3	2	3	2	0	2	2	1	2	2	0	4	3
					LOC2	2	3	3	3	5	0	5	4	3	0	0	0	3	2	3	2	0	2	2	1	2	2	0	4	3	0	4	0	2	0
					LOC3	3	3	3	3	4	0	4	3	2	0	0	0	2	1	2	1	0	1	1	2	2	0	3	2	0	4	0	4	0	
					LOC4	1	2	2	2	4	0	3	3	2	0	0	0	3	2	3	2	0	1	2	1	1	0	3	5	0	4	0	3	0	
					LOC5	2	3	3	2	5	0	4	3	2	0	0	0	2	2	2	2	0	2	2	2	1	1	0	4	5	0	3	0	3	0
					LOC6	2	1	2	1	4	0	5	5	3	0	0	0	2	2	2	2	0	1	2	1	1	1	0	2	3	2	2	0	4	0
					LOC7	2	3	2	3	4	0	5	5	3	0	0	0	3	2	3	1	0	1	1	1	2	1	2	3	4	3	3	0	4	0
					LOC8	2	3	3	3	4	0	4	3	2	0	0	0	3	3	3	1	0	1	1	1	1	1	3	4	3	2	4	0	4	0
					LOC9	1	2	2	1	5	0	4	4	3	0	0	0	2	1	2	2	0	2	1	1	1	1	3	3	5	4	5	0	4	0
					LOC10	2	3	3	3	3	0	5	5	3	0	0	0	2	2	2	1	0	1	1	1	2	2	4	4	3	3	4	0	4	0
					LOC11	2	2	2	2	5	0	3	2	2	0	0	0	3	2	3	1	0	1	1	1	2	2	2	2	4	3	3	0	4	0
					INS4066	DESIGN OF WATER SUPPLY SYSTEMS	2	1	6	LOC1	3	3	3	3	5	0	3	0	3	0	0	0	3	3	3	2	0	2	2	2	2	0	3	3	0
					LOC2	3	3	3	3	3	0	5	0	3	0	0	0	3	3	3	0	0	2	2	2	2	2	0	4	3	0	3	0		
					LOC3	3	3	3	3	3	0	3	0	3	0	0	0	3	3	3	0	0	2	2	2	2	2	0	3	5	0	4	0	4	0
					LOC4	3	3	3	3	3	0	3	0	3	0	0	0	3	3	3	0	0	2	2	2	2	2	0	3	3	0	3	0	4	0
					LOC5	3	3	3	3	3	0	3	0	3	0	0	0	3	3	3	0	0	2	2	2	2	2	0	3	3	0	3	0	4	0
					INS4068	DESIGN OF HYDRAULIC STRUCTURES	2	1	6	LOC1	0	0	0	0	0	0	4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	4	0	2	4
					LOC2	0	0	0	0	0	0	4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	4	0	2	0	4	0	
					LOC3	0	0	0	0	0	0	0	3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	3	4	0	3	0	4	0
					LOC4	0	0	0	0	0	0	5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	4	4	0	3	0	4	0
					LOC5	0	0	0	0	0	0	4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	4	4	0	3	0	4	0

					LOC6	0	0	0	0	0	0	0	5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	4	4	0	0	3
INS4070	FOUNDATION DESIGN OF STRUCTURES	2	1	6	LOC1	0	0	0	0	0	0	0	0	0	0	0	0	3	3	0	0	0	2	0	2	0	4	0	0	4	0	
					LOC2	0	0	0	0	0	0	0	0	0	0	3	3	0	2	0	2	0	0	0	4	0	0	0	0			
					LOC3	3	3	3	3	5	0	5	0	0	0	0	0	0	0	0	0	0	0	0	4	5	0	0	0			
					LOC4	0	0	0	0	4	0	0	0	3	0	0	0	0	0	0	0	2	2	0	0	4	0	3	0			
					LOC5	3	3	3	3	5	0	5	0	3	0	0	0	0	0	0	0	0	0	0	0	5	0	0	0			
INS4072	HIGHWAY DESING	2	1	6	LOC1	3	3	3	3	2	2	4	2	2	1	0	0	5	0	5	0	0	3	0	0	0	1	3	4	0	4	0
					LOC2	3	2	3	2	3	2	5	1	1	1	0	0	5	0	4	0	0	3	0	0	0	0	4	5	0	3	0
					LOC3	3	3	3	3	3	1	5	2	1	1	0	0	5	0	5	0	0	4	0	0	0	1	4	4	0	4	0
					LOC4	3	3	3	3	2	3	4	2	2	1	0	0	4	0	4	0	0	4	0	0	0	1	3	5	0	2	0
					LOC5	3	3	3	2	3	1	5	2	2	0	0	0	5	0	4	0	0	4	0	0	0	0	4	5	0	4	0
					LOC6	3	3	3	3	3	3	4	2	1	1	0	0	3	0	5	0	0	4	0	0	0	1	3	5	0	3	0
					LOC7	3	2	3	3	3	1	4	2	2	0	0	0	5	0	4	0	0	3	0	0	0	1	4	4	0	2	0
					LOC8	3	3	3	3	2	3	5	1	1	0	0	0	4	0	5	0	0	2	0	0	0	1	4	4	0	4	0
					LOC9	3	3	3	2	3	1	5	2	2	0	0	0	4	0	5	0	0	4	0	0	0	0	3	4	0	3	0
					LOC10	3	3	3	3	3	1	5	1	2	1	0	0	5	0	5	0	0	4	0	0	0	1	4	5	0	2	0

4TH YEAR - 8TH SEMESTER TECHNICAL ELECTIVE COMPUTER APPLICATIONS COURSE I and II					LOC	UNDERGRADUATE PROGRAMME OUTCOMES (PO)																												
COURSE CODE	COURSE NAME	T	P	ECTS		PO 1				PO 2		PO 3		PO 4		PO 5		PO 6			PO 7				PO 8		PO 9		PO 10		PO 11			
						PO1.1	PO1.2	PO1.3	PO1.4	PO2.1	PO2.2	PO3.1	PO3.2	PO4.1	PO4.2	PO5.1	PO5.2	PO6.1	PO6.2	PO6.3	PO7.1	PO7.2	PO7.3	PO7.4	PO8.1	PO8.2	PO9.1	PO9.2	PO10.1	PO10.2	PO11.1	PO11.2		
INS4074	COMPUTER APPLICATIONS IN GEOTECHNICAL ENGINEERING	3	1	5	LOC1	0	0	0	0	0	0	0	0	5	4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0			
					LOC2	0	0	0	0	0	3	3	0	0	4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
					LOC3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
					LOC4	0	0	0	0	0	3	0	0	5	4	0	0	0	0	3	0	0	0	0	0	0	0	0	0	0	0	0	0	0
					LOC5	0	0	0	0	0	0	0	0	0	4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0
					LOC2	0	0	0	0	0	0	0	0	0	4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	
					LOC3	0	0	0	0	0	0	0	0	5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	4	0	0	0	
					LOC4	0	0	0	0	0	0	0	0	5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	4	0	0	0	
					LOC5	0	0	0	0	0	0	0	0	5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	4	0	0	0	
INS4078	COMPUTER APPLICATIONS IN TRANSPORTATION ENGINEERING	3	1	5	LOC1	3	3	3	3	0	1	4	3	4	4	0	0	0	0	3	0	0	0	0	0	0	0	0	0	0	0			
					LOC2	3	3	3	3	3	0	0	0	4	4	0	0	3	0	3	0	0	0	0	0	0	0	0	0	0	0	0		
					LOC3	0	0	0	0	0	0	5	3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
					LOC4	3	3	3	3	0	1	5	0	4	4	0	0	0	0	3	0	0	0	0	0	0	0	0	0	0	0	0	0	
					LOC5	0	0	0	0	0	0	2	3	0	4	3	0	0	0	0	2	0	0	0	0	0	0	0	0	0	0	0	0	
					LOC2	0	0	0	0	0	3	3	0	5	4	0	0	0	0	3	0	0	0	0	0	0	0	0	0	0	0	0		
					LOC3	0	0	0	0	0	3	2	0	3	4	0	0	0	0	3	0	0	0	0	0	0	0	0	0	0	0	0	0	
					LOC4	0	0	0	0	0	3	3	0	5	4	0	0	0	0	2	0	0	0	0	0	0	0	0	0	0	0	0	0	
					LOC5	0	0	0	0	0	2	3	0	4	3	0	0	0	0	3	0	0	0	0	0	0	0	0	0	0	0	0	0	
					LOC6	0	0	0	0	0	3	2	0	4	4	0	0	0	0	3	0	0	0	0	0	0	0	0	0	0	0	0	0	
					LOC7	4	4	4	4	4	4	2	0	5	4	0	0	3	0	3	0	0	0	0	0	0	3	3	0	0	0	0	0	
					LOC2	4	4	4	3	3	4	2	0	4	3	0	0	3	0	2	0	0	0	0	0	3	2	0	0	0	0	0		
					LOC3	3	3	3	4	4	4	1	0	3	4	0	0	3	0	3	0	0	0	0	0	0	2	2	0	0	0	0	0	
					LOC4	4	4	3	4	4	4	2	0	3	4	0	0	2	0	2	0	0	0	0	0	3	3	0	0	0	0	0	0	
					LOC5	3	4	4	3	4	3	1	0	4	4	0	0	2	0	3	0	0	0	0	0	3	3	0	0	0	0	0	0	
					LOC6	4	3	4	4	4	4	2	0	3	3	0	0	3	0	3	0	0	0	0	0	3	3	0	0	0	0	0	0	
					LOC7	4	4	4	3	4	4	2	0	4	4	0	0	2	0	3	0	0	0	0	0	0	3	3	0	0	0	0	0	
					LOC8	3	4	4	4	3	4	2	0	5	3	0	0	3	0	3	0	0	0	0	0	3	3	0	0	0	0	0	0	
					LOC9	4	4	4	4	3	3	2	0	4	3	0	0	3	0	2	0	0	0	0	0	2	3	0	0	0	0	0	0	
					LOC10	3	4	3	4	4	4	2	0	4	4	0	0	3	0	3	0	0	0	0	0	2	3	0	0	0	0	0	0	
					LOC11	4	4	4	4	4	4	1	0	4	4	0	0	3	0	3	0	0	0	0	0	3	3	0	0	0	0	0	0	
					LOC12	3	4	3	4	3	3	2	0	3	4	0	0	3	0	3	0	0	0	0	0	3	3	0	0	0	0	0	0	
					LOC13	4	4	4	4	4	4	1	0	4	4	0	0	2	0	2	0	0	0	0	0	3	2	0	0	0	0	0	0	
					LOC14	4	4	3	4	4	4	2	0	4	4	0	0	3	0	3	0	0	0	0	0	3	3	0	0	0	0	0	0	
Contribution Level: 0=None, 1-Very Low, 2-Low, 3-Medium, 4-High, 5-Very High																																		

Contribution Level: 0-None, 1-Very Low, 2-Low, 3-Medium, 4-High, 5-Very High