

Program articulation matrix 2024-25

[illegible]

Program articulation matrix 2024-25

III	Course Name:	GEODESY LABORATORY							Course Code:		CE21402						
	Course Outcomes (COs) code & Statement	PO-1	PO-2	PO-3	PO-4	PO-5	PO-6	PO-7	PO-8	PO-9	PO-10	PO-11	PO-12	PSO-1	PSO-2	PSO-3	PSO-4
	CO-1	3	3	2	-	3	-	-	-	2	-	-	3	2	2	-	-
	CO-2	3	3	2	2	-	-	-	-	2	-	-	3	2	2	-	-
	CO-3	3	3	2	2	2	-	-	-	2	-	-	3	2	2	-	-
	CO-4	3	3	2	2	3	-	-	-	2	-	-	3	2	2	-	-
	CO-5	3	3	3	2	3	-	-	-	2	-	-	3	2	2	-	-
	Target	3	3	2.2	1.6	2.2	-	-	-	2	-	-	3	2	2	-	-
	Course Name:	STRENGTH OF MATERIALS							Course Code:		CE21013						
	Course Outcomes (COs) code & Statement	PO-1	PO-2	PO-3	PO-4	PO-5	PO-6	PO-7	PO-8	PO-9	PO-10	PO-11	PO-12	PSO-1	PSO-2	PSO-3	PSO-4
	CO-1	3	3	-	1	-	2	-	-	-	-	-	3	3	3	-	-
	CO-2	3	3	-	1	-	-	-	-	-	-	-	3	3	3	-	-
	CO-3	3	3	1	1	-	2	-	-	-	-	-	3	3	3	-	-
	CO-4	3	3	-	1	-	2	-	-	-	-	-	3	3	3	-	-
	CO-5	3	3	2	1	-	2	-	-	-	-	-	3	3	3	-	-
	Target	3	3	0.6	1	-	1.6	-	-	-	-	-	3	3	3	-	-
	Course Name:	STRENGTH OF MATERIALS LABORATORY							Course Code:		CE21403						
	Course Outcomes (COs) code & Statement	PO-1	PO-2	PO-3	PO-4	PO-5	PO-6	PO-7	PO-8	PO-9	PO-10	PO-11	PO-12	PSO-1	PSO-2	PSO-3	PSO-4
	CO-1	3	3	2	3	3	-	-	-	1	-	-	2	3	3	-	-
	CO-2	3	3	2	3	2	-	-	-	1	-	-	2	2	2	-	-
	CO-3	3	3	2	3	2	-	-	-	1	-	-	2	3	2	-	-
	Target	3	3	2	3	2.3	-	-	-	1	-	-	2	2.7	2.3	-	-
	Course Name:	ENGINEERING MATERIAL							Course Code:		CE21015						
	Course Outcomes (COs) code & Statement	PO-1	PO-2	PO-3	PO-4	PO-5	PO-6	PO-7	PO-8	PO-9	PO-10	PO-11	PO-12	PSO-1	PSO-2	PSO-3	PSO-4
	CO-1	3	1	-	-	-	2	-	-	-	1	-	3	2	2	-	-
	CO-2	3	1	-	-	-	2	-	-	-	1	-	3	2	2	-	-
	CO-3	3	1	-	-	-	2	-	-	-	1	-	3	2	2	-	-
	CO-4	3	2	2	-	-	2	-	-	-	1	-	3	3	2	-	-
	CO-5	3	2	1	-	-	2	-	-	-	2	-	3	3	2	-	-
	Target	3	1.4	0.6	-	-	2	-	-	-	1.2	-	3	2.4	2	-	-

Program articulation matrix 2024-25

	Course Name:	ENGINEERING MATERIAL LABORATORY							Course Code:		CE21404						
	Course Outcomes (COs) code & Statement	PO-1	PO-2	PO-3	PO-4	PO-5	PO-6	PO-7	PO-8	PO-9	PO-10	PO-11	PO-12	PSO-1	PSO-2	PSO-3	PSO-4
	CO-1	3	3	-	-	3	-	-	3	3	3	-	3	3	3	-	-
	CO-2	3	3	2	-	3	-	-	3	3	3	-	3	2	3	-	-
	CO-3	3	3	3	-	3	-	-	3	3	3	-	3	3	3	-	-
	CO-4	3	3	0	-	3	-	-	3	3	3	-	3	-	3	-	-
	CO-5	3	3	2	-	-	-	-	3	3	3	-	3	3	3	-	-
	Target	3	3	1.4	-	2.4	-	-	3	3	3	-	3	2.6	3	-	-
	Course Name:	CONSTRUCTION TECHNOLOGY-I							Course Code:		CE21512						
	Course Outcomes (COs) code & Statement	PO-1	PO-2	PO-3	PO-4	PO-5	PO-6	PO-7	PO-8	PO-9	PO-10	PO-11	PO-12	PSO-1	PSO-2	PSO-3	PSO-4
	CO-1	3	3	-	-	-	-	-	-	-	-	-	3	3	2	-	-
	CO-2	3	3	-	-	-	-	-	-	-	-	-	3	3	-	-	-
	CO-3	3	3	-	-	-	-	-	-	-	-	-	3	2	2	-	-
	CO-4	3	3	-	-	-	-	-	-	-	-	-	3	2	2	-	-
	CO-5	3	3	-	-	-	-	-	-	-	-	-	3	2	2	-	-
	Target	3	3	-	-	-	-	-	-	-	-	-	3	2.4	1.6	-	-
	Course Name:	CONSTRUCTION TECHNOLOGY-I LABORATORY							Course Code:		CE21801						
	Course Outcomes (COs) code & Statement	PO-1	PO-2	PO-3	PO-4	PO-5	PO-6	PO-7	PO-8	PO-9	PO-10	PO-11	PO-12	PSO-1	PSO-2	PSO-3	PSO-4
	CO-1	3	3	-	-	-	-	-	2	-	-	-	3	3	3	-	-
	CO-2	3	3	-	-	-	-	-	-	-	-	-	3	2	2	-	-
	CO-3	3	3	-	-	-	-	-	2	-	-	-	3	3	2	-	-
	Target	3	3	-	-	-	-	-	1.3	-	-	-	3	2.7	2.3	-	-
	Course Name:	TRANSPORTATION ENGINEERING							Course Code:		CE21514						
	Course Outcomes (COs) code & Statement	PO-1	PO-2	PO-3	PO-4	PO-5	PO-6	PO-7	PO-8	PO-9	PO-10	PO-11	PO-12	PSO-1	PSO-2	PSO-3	PSO-4
	CO-1	3	3	-	2	-	-	-	3	-	-	-	3	3	3	-	-
	CO-2	3	3	3	-	1	-	-	3	-	-	-	3	3	3	-	-
	CO-3	3	3	3	2	1	-	-	3	-	-	-	3	3	3	-	-
	CO-4	3	3	-	3	-	-	-	3	-	-	-	3	3	3	-	-
	CO-5	3	3	3	-	-	-	-	3	-	-	-	3	3	3	-	-
	Target	3	3	1.8	1.4	0.4	-	-	3	-	-	-	3	3	3	-	-

Program articulation matrix 2024-25

IV	Course Name:	TRANSPORTATION ENGINEERING LAB							Course Code:		CE21802						
	Course Outcomes (COs) code & Statement	PO-1	PO-2	PO-3	PO-4	PO-5	PO-6	PO-7	PO-8	PO-9	PO-10	PO-11	PO-12	PSO-1	PSO-2	PSO-3	PSO-4
	CO-1	3	3	-	2	-	-	-	3	3	-	-	3	3	3	-	-
	CO-2	3	3	3	-	-	-	-	3	3	-	-	3	3	3	-	-
	CO-3	3	3	3	2	-	-	-	3	3	-	-	3	3	3	-	-
	CO-4	3	3	-	3	-	-	-	3	3	-	-	3	3	3	-	-
	CO-5	3	3	3	-	-	-	-	3	3	-	-	3	3	3	-	-
	Target	3	3	1.8	1.4	-	-	-	3	3	-	-	3	3	3	-	-
	Course Name:	ENGINEERING GEOLOGY							Course Code:		CE21518						
	Course Outcomes (COs) code & Statement	PO-1	PO-2	PO-3	PO-4	PO-5	PO-6	PO-7	PO-8	PO-9	PO-10	PO-11	PO-12	PSO-1	PSO-2	PSO-3	PSO-4
	CO-1	3	2	-	-	-	2	-	-	-	3	-	3	2	2	1	1
	CO-2	2	3	-	-	-	2	-	-	-	3	-	3	2	3	1	1
	CO-3	3	2	-	-	2	2	-	-	-	3	-	3	2	2	2	2
	CO-4	2	1	-	-	2	2	-	-	-	3	-	3	3	2	2	2
	CO-5	2	2	-	3	2	2	-	-	-	3	-	3	3	2	2	2
	Target	2.4	2	-	0.6	1.2	2	-	-	-	3	-	3	2.4	2.2	1.6	1.6
	Course Name:	ENGINEERING GEOLOGY LABORATORY							Course Code:		CE21803						
	Course Outcomes (COs) code & Statement	PO-1	PO-2	PO-3	PO-4	PO-5	PO-6	PO-7	PO-8	PO-9	PO-10	PO-11	PO-12	PSO-1	PSO-2	PSO-3	PSO-4
	CO-1	3	2	-	-	-	-	2	-	-	-	-	2	0	2	2	2
	CO-2	2	3	-	2	-	-	2	-	2	-	-	2	2	2	2	2
	CO-3	3	2	-	2	-	-	-	-	2	-	-	2	3	2	1	2
	Target	1.6	1.4	-	0.8	-	-	0.8	-	0.8	-	-	1.2	1.6	2	1.6	2
	Course Name:	STRUCTURAL MECHANICS							Course Code:		CE21524						
	Course Outcomes (COs) code & Statement	PO-1	PO-2	PO-3	PO-4	PO-5	PO-6	PO-7	PO-8	PO-9	PO-10	PO-11	PO-12	PSO-1	PSO-2	PSO-3	PSO-4
	CO-1	3	3	3	-	-	-	-	-	-	-	-	3	3	3	-	-
	CO-2	3	3	3	-	-	-	-	-	-	-	-	3	3	3	-	-
	CO-3	3	3	3	-	-	-	-	-	-	-	-	3	3	3	-	-
	CO-4	3	3	3	-	-	-	-	-	-	-	-	3	3	3	-	-
	CO-5	3	3	3	-	-	-	-	-	-	-	-	3	3	3	-	-
	Target	3	3	3	-	-	-	-	-	-	-	-	3	3	3	-	-

Program articulation matrix 2024-25

	Course Name:	STRUCTURAL MECHANICS LABORATORY							Course Code:		CE21804						
	Course Outcomes (COs) code & Statement	PO-1	PO-2	PO-3	PO-4	PO-5	PO-6	PO-7	PO-8	PO-9	PO-10	PO-11	PO-12	PSO-1	PSO-2	PSO-3	PSO-4
	CO-1	3	3	3	-	-	-	-	-	3	-	-	3	3	3	-	-
	CO-2	3	3	3	-	-	-	-	-	3	-	-	3	3	3	-	-
	CO-3	3	3	3	-	-	-	-	-	3	-	-	3	3	3	-	-
	CO-4	3	3	3	-	-	-	-	-	3	-	-	3	3	3	-	-
	CO-5	3	3	3	-	-	-	-	-	3	-	-	3	3	3	-	-
	Target	3	3	3	-	-	-	-	-	3	-	-	3	3	3	-	-
	Course Name:	FLUID MECHANICS							Course Code:		CE21517						
	Course Outcomes (COs) code & Statement	PO-1	PO-2	PO-3	PO-4	PO-5	PO-6	PO-7	PO-8	PO-9	PO-10	PO-11	PO-12	PSO-1	PSO-2	PSO-3	PSO-4
	CO-1	3	-	-	-	-	-	-	-	-	-	-	1	1	1	-	-
	CO-2	3	1	1	-	-	-	-	-	-	-	-	1	2	1	-	-
	CO-3	2	1	1	1	1	-	-	-	-	-	-	1	1	1	-	-
	CO-4	2	2	0	2	1	-	-	-	-	-	-	1	1	2	-	-
	CO-5	3	2	0	1	1	-	-	-	-	-	-	1	1	1	-	-
	Target	2.6	1.2	0.4	0.8	0.6	-	-	-	-	-	-	1	1.2	1.2	-	-
	Course Name:	FLUID MECHANICS LABORATORY							Course Code:		CE21805						
	Course Outcomes (COs) code & Statement	PO-1	PO-2	PO-3	PO-4	PO-5	PO-6	PO-7	PO-8	PO-9	PO-10	PO-11	PO-12	PSO-1	PSO-2	PSO-3	PSO-4
	CO-1	3	3	2	-	-	-	-	-	2	-	-	3	3	3	-	-
CO-2	3	3	2	-	-	-	-	-	2	-	-	3	3	3	-	-	
CO-3	3	3	2	-	-	-	-	-	2	-	-	3	3	3	-	-	
Target	3	3	2	-	-	-	-	-	2	-	-	3	3	3	-	-	
	Course Name:	ENVIRONMENTAL ENGINEERING							Course Code:		CE31006						
	Course Outcomes (COs) code & Statement	PO-1	PO-2	PO-3	PO-4	PO-5	PO-6	PO-7	PO-8	PO-9	PO-10	PO-11	PO-12	PSO-1	PSO-2	PSO-3	PSO-4
	CO-1	3	3	2	-	-	2	1	-	-	-	-	-	3	2	1	3
	CO-2	3	3	1	-	-	-	-	-	-	-	-	-	2	2	-	2
	CO-3	3	2	1	-	2	-	1	-	-	-	-	-	3	3	1	1
	CO-4	3	2	0	-	-	2	-	-	-	-	-	-	2	2	-	3
	CO-5	3	2	1	-	-	-	-	-	-	-	-	-	2	2	-	2
	Target	3	2.4	1	0	0.4	0.8	0.4	0	0	0	0	0	2.4	2.2	0.4	2.2

Program articulation matrix 2024-25

V	Course Name:	DESIGN OF RCC STRUCTURES							Course Code:		CE31003						
	Course Outcomes (COs) code & Statement	PO-1	PO-2	PO-3	PO-4	PO-5	PO-6	PO-7	PO-8	PO-9	PO-10	PO-11	PO-12	PSO-1	PSO-2	PSO-3	PSO-4
	CO-1	3	3	3	-	-	2	-	-	-	-	-	-	3	3	1	1
	CO-2	3	3	3	-	-	2	-	-	-	-	-	-	3	3	1	1
	CO-3	3	3	3	-	-	2	-	-	-	-	-	-	3	3	2	1
	CO-4	3	3	3	-	-	2	-	-	-	-	-	-	3	3	1	-
	CO-5	3	3	3	-	-	2	-	-	-	-	-	-	3	3	2	-
	Target	3	3	3	0	0	2	0	0	0	0	0	0	3	3	1.4	0.6
	Course Name:	STRUCTURAL ANALYSIS I							Course Code:		CE31007						
	Course Outcomes (COs) code & Statement	PO-1	PO-2	PO-3	PO-4	PO-5	PO-6	PO-7	PO-8	PO-9	PO-10	PO-11	PO-12	PSO-1	PSO-2	PSO-3	PSO-4
	CO-1	3	3	2	-	-	3	-	-	-	-	-	-	3	3	2	-
	CO-2	3	3	2	-	-	3	-	-	-	-	-	-	3	3	2	-
	CO-3	3	3	2	-	-	3	-	-	-	-	-	-	3	3	2	-
	CO-4	3	3	2	-	-	3	-	-	-	-	-	-	3	3	1	-
	CO-5	3	3	2	-	-	3	-	-	-	-	-	-	3	3	1	-
	Target	3	3	2	0	0	3	0	0	0	0	0	0	3	3	1.6	0
	Course Name:	WATER RESOURCES ENGINEERING							Course Code:		CE31010						
	Course Outcomes (COs) code & Statement	PO-1	PO-2	PO-3	PO-4	PO-5	PO-6	PO-7	PO-8	PO-9	PO-10	PO-11	PO-12	PSO-1	PSO-2	PSO-3	PSO-4
	CO-1	3	-	-	-	-	2	-	-	-	-	-	2	3	-	3	1
	CO-2	3	2	-	-	-	-	-	-	-	-	-	3	3	1	2	1
	CO-3	2	3	-	-	-	-	-	-	-	-	-	3	3	1	2	1
	CO-4	2	3	-	-	-	2	-	-	-	-	-	2	2	1	3	1
	CO-5	3	1	1	-	-	-	-	-	-	-	-	3	2	2	1	1
	Target	2.6	1.8	0.2	0	0	0.8	0	0	0	0	0	2.6	2.6	1	2.2	1
	Course Name:	ADVANCE HIGHWAY AND AIRPORT ENGINEERING							Course Code:		CE31201						
	Course Outcomes (COs) code & Statement	PO-1	PO-2	PO-3	PO-4	PO-5	PO-6	PO-7	PO-8	PO-9	PO-10	PO-11	PO-12	PSO-1	PSO-2	PSO-3	PSO-4
	CO-1	3	3	2	2	-	-	-	-	-	-	-	-	3	3	1	2
	CO-2	3	3	2	2	-	-	-	-	-	-	-	-	3	3	1	1
	CO-3	2	2	3	3	-	-	-	-	-	-	-	-	2	3	2	2
	CO-4	2	2	3	2	-	2	-	-	-	-	-	-	2	3	1	2
	CO-5	2	3	3	3	-	2	-	-	-	-	-	-	3	3	1	1
	Target	2.4	2.6	2.6	2.4	0	1.4	0	0	0	0	0	0	2.6	3	1.2	1.6

Program articulation matrix 2024-25

VI	Course Name:	DESIGN OF STEEL STRUCTURES							Course Code:		CE31502						
	Course Outcomes (COs) code & Statement	PO-1	PO-2	PO-3	PO-4	PO-5	PO-6	PO-7	PO-8	PO-9	PO-10	PO-11	PO-12	PSO-1	PSO-2	PSO-3	PSO-4
	CO-1	3	3	3	-	-	-	-	-	-	-	-	-	3	3	1	-
	CO-2	3	3	3	-	-	-	-	-	-	-	-	-	3	3	1	-
	CO-3	3	3	3	-	-	-	-	-	-	-	-	-	3	3	2	-
	CO-4	3	3	3	-	-	-	-	-	-	-	-	-	3	3	2	-
	CO-5	3	3	3	-	-	-	-	-	-	-	-	-	3	3	1	-
	Target	3	3	3	0	0	0	0	0	0	0	0	0	3	3	1.4	0
	Course Name:	STRUCTURAL ANALYSIS-II							Course Code:		CE31505						
	Course Outcomes (COs) code & Statement	PO-1	PO-2	PO-3	PO-4	PO-5	PO-6	PO-7	PO-8	PO-9	PO-10	PO-11	PO-12	PSO-1	PSO-2	PSO-3	PSO-4
	CO-1	3	3	2	2	-	2	-	-	-	-	-	-	3	3	2	-
	CO-2	3	3	3	3	-	2	-	-	-	-	-	-	3	3	2	-
	CO-3	3	3	3	3	-	2	-	-	-	-	-	-	3	3	2	-
	CO-4	3	3	3	3	-	2	-	-	-	-	-	-	3	3	1	-
	CO-5	3	3	2	2	-	2	-	-	-	-	-	-	3	3	1	-
	Target	3	3	2.6	2.6	0	2	0	0	0	0	0	0	3	3	1.6	0
	Course Name:	CONSTRUCTION TECHNOLOGY-II							Course Code:		CE31506						
	Course Outcomes (COs) code & Statement	PO-1	PO-2	PO-3	PO-4	PO-5	PO-6	PO-7	PO-8	PO-9	PO-10	PO-11	PO-12	PSO-1	PSO-2	PSO-3	PSO-4
	CO-1	3	3	-	1	-	-	-	-	-	-	-	-	1	2	3	-
	CO-2	3	3	3	2	-	-	-	-	-	-	-	-	1	3	3	1
	CO-3	2	3	-	-	-	-	-	-	-	-	-	-	1	2	3	-
	CO-4	2	2	2	-	-	-	-	2	-	-	-	-	1	2	3	1
	CO-5	3	3	3	3	3	-	-	-	-	-	-	-	3	3	3	2
	Target	2.6	2.8	1.6	1.2	0.6	0	0	0.4	0	0	0	1	1.4	2.4	3	0.8
	Course Name:	GEOTECHNICAL ENGINEERING – I							Course Code:		CE31507						
	Course Outcomes (COs) code & Statement	PO-1	PO-2	PO-3	PO-4	PO-5	PO-6	PO-7	PO-8	PO-9	PO-10	PO-11	PO-12	PSO-1	PSO-2	PSO-3	PSO-4
	CO-1	2	2	2	-	-	-	-	2	-	-	-	-	2	2	1	1
	CO-2	3	3	2	-	-	-	1	-	-	-	-	-	3	3	1	-
	CO-3	2	2	2	-	-	-	1	-	-	-	-	-	3	3	1	1
	CO-4	3	2	2	-	-	-	1	-	-	-	-	-	3	3	2	-
	CO-5	2	2	2	-	1	1	-	-	-	-	-	-	2	2	2	1
	Target	2.4	2.2	2	0	0.2	0.2	0.6	0.4	0	0	0	0	2.6	2.6	1.4	0.6

Program articulation matrix 2024-25

	Course Name:	WATER AND WASTEWATER TREATMENT TECHNOLOGIES						Course Code:		CE31703							
	Course Outcomes (COs) code & Statement	PO-1	PO-2	PO-3	PO-4	PO-5	PO-6	PO-7	PO-8	PO-9	PO-10	PO-11	PO-12	PSO-1	PSO-2	PSO-3	PSO-4
	CO-1	3	2	3	1	-	2	2	1	1	-	-	1	2	3	1	3
	CO-2	3	2	3	1	-	-	1	-	-	-	-	-	3	3	1	2
	CO-3	3	3	1	3	1	-	-	2	-	-	-	-	2	3	1	2
	CO-4	3	2	2	1	-	1	2	-	-	-	-	-	1	3	3	2
	CO-5	3	1	2	1	-	-	1	-	-	-	-	-	3	3	2	2
	Target	3	2	2.2	1.4	0.2	0.6	1.2	0.6	0.2	0	0	0.2	2.2	3	1.6	2.2
VII	Course Name:	DESIGN OF ADVANCED RCC STRUCTURES						Course Code:		CE 41001							
	Course Outcomes (COs) code & Statement	PO-1	PO-2	PO-3	PO-4	PO-5	PO-6	PO-7	PO-8	PO-9	PO-10	PO-11	PO-12	PSO-1	PSO-2	PSO-3	PSO-4
	CO-1	3	3	3	-	-	-	3	3	-	-	-	3	2	3	2	3
	CO-2	3	3	3	-	-	-	3	3	-	-	-	3	2	3	2	3
	CO-3	3	3	3	-	-	-	3	3	-	-	-	3	2	3	3	3
	CO-4	3	3	3	-	-	-	3	3	-	-	-	3	3	3	3	2
	CO-5	3	3	3	-	-	-	3	3	-	-	-	3	3	3	3	2
	Target	3	2	2.2	1.4	0.2	0.6	1.2	0.6	0.2	0	0	0.2	2.2	3	1.6	2.2
	Course Name:	DESIGN OF HYDRAULIC STRUCTURES						Course Code:		CE41006							
	Course Outcomes (COs) code & Statement	PO-1	PO-2	PO-3	PO-4	PO-5	PO-6	PO-7	PO-8	PO-9	PO-10	PO-11	PO-12	PSO-1	PSO-2	PSO-3	PSO-4
	CO-1	3	3	2	-	-	-	-	-	-	-	-	3	3	3	2	3
	CO-2	3	2	2	3	-	-	-	3	-	-	-	3	2	3	3	3
	CO-3	3	2	3	3	-	-	-	3	-	-	-	3	2	3	3	3
	CO-4	3	3	3	3	-	-	-	3	-	-	-	3	3	3	2	3
	CO-5	3	-	2	-	-	-	-	3	-	-	-	3	3	3	2	2
	Target	3	2	2.2	1.4	0.2	0.6	1.2	0.6	0.2	0	0	0.2	2.2	3	1.6	2.2
	Course Name:	GEOTECHNICAL ENGINEERING – II						Course Code:		CE41007							
	Course Outcomes (COs) code & Statement	PO-1	PO-2	PO-3	PO-4	PO-5	PO-6	PO-7	PO-8	PO-9	PO-10	PO-11	PO-12	PSO-1	PSO-2	PSO-3	PSO-4
	CO-1	3	3	-	-	-	-	-	-	-	-	-	3	3	3	3	2
	CO-2	3	3	-	-	-	-	-	-	-	-	-	3	3	3	3	2
	CO-3	3	3	-	2	-	-	-	3	-	-	-	3	2	3	3	3
	CO-4	3	3	-	-	-	-	-	-	-	-	-	3	3	3	3	3
	CO-5	3	-	-	-	-	-	3	-	-	-	-	3	2	3	2	3
	Target	3	2	2.2	1.4	0.2	0.6	1.2	0.6	0.2	0	0	0.2	2.2	3	1.6	2.2

Program articulation matrix 2024-25

ELECTIVES III	Course Name:	ADVANCED ANALYSIS OF STRUCTURES						Course Code:		CE41281								
	Course Outcomes (COs) code & Statement	PO-1	PO-2	PO-3	PO-4	PO-5	PO-6	PO-7	PO-8	PO-9	PO-10	PO-11	PO-12	PSO-1	PSO-2	PSO-3	PSO-4	
	CO-1	3	3	-	-	-	-	-	-	-	-	-	3	3	3	3	2	
	CO-2	3	3	-	3	-	-	-	-	-	-	-	3	3	3	3	2	
	CO-3	3	3	-	3	-	-	-	-	-	-	-	3	3	3	3	2	
	CO-4	3	3	-	3	-	-	-	-	-	-	-	3	3	3	3	2	
	CO-5	3	-	-	-	-	-	-	-	-	-	-	3	3	3	3	2	
	Target	3	2.4	-	1.8	-	-	-	-	-	-	-	3	3	3	3	2	
	Course Name:	ADVANCED GEOLOGY & ROCK MECHANICS						Course Code:		CE41283								
	Course Outcomes (COs) code & Statement	PO-1	PO-2	PO-3	PO-4	PO-5	PO-6	PO-7	PO-8	PO-9	PO-10	PO-11	PO-12	PSO-1	PSO-2	PSO-3	PSO-4	
	CO-1	3	-	-	3	-	2	-	-	-	-	-	2	3	3	-	2	
	CO-2	3	-	-	3	-	2	-	-	-	-	-	2	3	3	-	3	
	CO-3	3	-	-	3	-	2	-	-	-	-	-	2	3	3	-	2	
	CO-4	3	-	-	3	-	2	-	-	-	-	-	2	3	3	-	3	
	CO-5	3	-	-	3	-	2	-	-	-	-	-	2	3	3	-	2	
	Target	3	-	-	1.8	-	2	-	-	-	-	-	2	3	3	-	2.4	
	Course Name:	TRANSPORTATION PLANNING						Course Code:		CE41285								
	Course Outcomes (COs) code & Statement	PO-1	PO-2	PO-3	PO-4	PO-5	PO-6	PO-7	PO-8	PO-9	PO-10	PO-11	PO-12	PSO-1	PSO-2	PSO-3	PSO-4	
	CO-1	3	-	-	-	-	-	-	-	-	-	-	2	3	3	2	3	
	CO-2	3	-	2	-	-	-	-	-	-	-	-	2	3	3	3	3	
	CO-3	3	-	-	-	-	-	-	-	-	-	-	2	3	3	3	3	
	CO-4	3	-	-	-	-	-	-	-	-	-	-	2	3	3	3	3	
	CO-5	3	-	-	-	-	2	-	-	-	-	-	2	3	3	2	3	
	Target	3	-	0.4	-	-	0.4	-	-	-	-	-	2	3	3	2.6	3	
	Course Name:	PLANNING AND MANAGEMENT OF WATER RESOURCES						Course Code:										
	Course Outcomes (COs) code & Statement	PO-1	PO-2	PO-3	PO-4	PO-5	PO-6	PO-7	PO-8	PO-9	PO-10	PO-11	PO-12	PSO-1	PSO-2	PSO-3	PSO-4	
	CO-1	3	-	-	-	-	-	-	-	-	-	-	2	3	3	3	3	
	CO-2	3	-	-	3	-	-	-	-	-	-	-	2	3	3	3	3	
	CO-3	3	-	-	3	3	-	-	-	-	-	-	2	3	3	3	2	
CO-4	3	-	-	3	-	-	-	-	-	-	-	2	3	3	3	3		
CO-5	3	-	-	-	-	-	-	-	-	-	-	2	3	3	2	3		
Target	3	-	-	1.8	0.6	-	-	-	-	-	-	2	3	3	2.8	2.8		

Program articulation matrix 2024-25

ELECTIVES IV	Course Name:	BRIDGE ENGINEERING							Course Code:		CE41312						
	Course Outcomes (COs) code & Statement	PO-1	PO-2	PO-3	PO-4	PO-5	PO-6	PO-7	PO-8	PO-9	PO-10	PO-11	PO-12	PSO-1	PSO-2	PSO-3	PSO-4
	CO-1	3	3	3	-	-	3	-	-	-	-	-	3	3	3	2	3
	CO-2	3	-	-	-	-	-	-	-	-	-	-	3	3	3	3	2
	CO-3	3	-	3	-	-	3	-	-	-	-	-	3	3	3	3	2
	CO-4	3	3	3	-	-	3	-	-	-	-	-	3	3	3	3	2
	CO-5	3	3	3	-	-	3	-	-	-	-	-	3	3	3	3	3
	Target	3	1.8	2.4	-	-	2.4	-	-	-	-	-	3	3	3	2.8	2.4
	Course Name:	ADVANCE CONSTRUCTION PLANNING AND MANAGEMENT							Course Code:								
	Course Outcomes (COs) code & Statement	PO-1	PO-2	PO-3	PO-4	PO-5	PO-6	PO-7	PO-8	PO-9	PO-10	PO-11	PO-12	PSO-1	PSO-2	PSO-3	PSO-4
	CO-1	3	-	-	-	-	3	-	-	-	-	3	2	3	3	2	3
	CO-2	3	2	-	-	-	-	-	-	-	-	3	2	3	3	2	3
	CO-3	3	-	3	-	-	3	-	-	-	-	-	2	3	3	2	2
	CO-4	3	2	-	-	-	3	-	-	-	-	-	2	3	3	2	2
	CO-5	3	-	3	-	-	3	-	-	3	3	-	2	3	3	2	3
	Target	3	0.8	1.2	-	-	2.4	-	-	0.6	0.6	1.2	2	3	3	2	2.6
	Course Name:	PRESTRESSED CONCRETE DESIGN							Course Code:		CE41313						
	Course Outcomes (COs) code & Statement	PO-1	PO-2	PO-3	PO-4	PO-5	PO-6	PO-7	PO-8	PO-9	PO-10	PO-11	PO-12	PSO-1	PSO-2	PSO-3	PSO-4
	CO-1	3	-	-	-	-	-	-	-	-	-	-	3	3	3	2	2
	CO-2	3	-	-	-	-	-	-	-	-	-	-	3	3	3	2	2
	CO-3	3	-	3	-	-	-	-	3	-	-	-	3	3	3	3	2
	CO-4	3	3	-	-	-	-	-	-	-	-	-	3	3	3	3	2
	CO-5	3	3	3	-	-	-	-	3	-	-	-	3	3	3	3	3
	Target	3	1.2	1.2	-	-	-	-	1.2	-	-	-	3	3	3	2.6	2.2
	Course Name:	SYSTEM APPLICATION TO WATER RESOURCES CREDITS							Course Code:								
	Course Outcomes (COs) code & Statement	PO-1	PO-2	PO-3	PO-4	PO-5	PO-6	PO-7	PO-8	PO-9	PO-10	PO-11	PO-12	PSO-1	PSO-2	PSO-3	PSO-4
	CO-1	3	-	-	-	-	-	-	-	-	-	-	3	3	3	2	3
	CO-2	3	3	-	-	-	-	-	-	-	-	-	3	3	3	3	3
	CO-3	3	-	-	3	-	-	-	-	-	-	-	3	3	3	3	2
	CO-4	3	-	-	3	-	-	-	-	-	-	-	3	3	3	3	2
	CO-5	3	-	-	3	-	-	-	-	-	-	-	3	3	3	3	3
	Target	3	0.6	-	1.8	-	-	-	-	-	-	-	3	3	3	2.8	2.6

Program articulation matrix 2024-25

	Course Name:	TRAFFIC ENGINEERING							Course Code:		CE41311						
	Course Outcomes (COs) code & Statement	PO-1	PO-2	PO-3	PO-4	PO-5	PO-6	PO-7	PO-8	PO-9	PO-10	PO-11	PO-12	PSO-1	PSO-2	PSO-3	PSO-4
	CO-1	3	3	-	-	-	-	-	-	-	-	-	2	3	3	3	3
	CO-2	3	-	-	-	-	-	-	-	-	-	-	2	3	3	3	2
	CO-3	3	2	2	3	-	-	-	3	-	-	-	2	3	3	3	3
	CO-4	3	-	-	3	-	3	-	2	-	-	-	2	3	3	2	3
	CO-5	3	-	3	3	-	-	-	-	-	-	2	2	3	3	3	3
	Target	3	1	1	1.8	-	0.6	-	1	-	-	0.4	2	3	3	2.8	2.8
	Course Name:	ADVANCED FLUID MECHANICS							Course Code:								
	Course Outcomes (COs) code & Statement	PO-1	PO-2	PO-3	PO-4	PO-5	PO-6	PO-7	PO-8	PO-9	PO-10	PO-11	PO-12	PSO-1	PSO-2	PSO-3	PSO-4
	CO-1	3	3	-	-	-	-	-	-	-	-	-	2	3	3	3	2
	CO-2	3	3	-	-	-	-	-	-	-	-	-	2	3	3	3	3
	CO-3	3	2	-	2	-	-	-	-	-	-	-	2	3	3	3	3
	CO-4	3	3	-	-	-	-	-	-	-	-	-	2	3	3	3	2
	CO-5	3	3	-	2	-	-	-	-	-	-	-	2	3	3	3	2
Target	3	2.8	-	0.8	-	-	-	-	-	-	-	2	3	3	3	2.4	
Course Name:	INDUSTRIAL WASTEWATER MANAGEMENT							Course Code:		CE41315							
Course Outcomes (COs) code & Statement	PO-1	PO-2	PO-3	PO-4	PO-5	PO-6	PO-7	PO-8	PO-9	PO-10	PO-11	PO-12	PSO-1	PSO-2	PSO-3	PSO-4	
CO-1	3	-	-	-	-	-	-	-	-	-	-	2	3	3	2	3	
CO-2	3	-	-	-	-	2	2	-	-	3	2	2	3	3	3	3	
CO-3	3	-	-	2	3	-	-	-	-	-	-	2	3	3	3	3	
CO-4	3	-	-	2	-	-	-	-	-	-	-	2	3	3	3	3	
CO-5	3	-	-	2	-	-	-	-	-	-	-	2	3	3	3	3	
Target	3	-	-	1.2	0.6	0.4	0.4	-	-	0.6	0.4	2	3	3	2.8	3	
	Course Name:	ADVANCED TRANSPORTATION ENGINEERING							Course Code:		CE41674						
	Course Outcomes (COs) code & Statement	PO-1	PO-2	PO-3	PO-4	PO-5	PO-6	PO-7	PO-8	PO-9	PO-10	PO-11	PO-12	PSO-1	PSO-2	PSO-3	PSO-4
	CO-1	3	3	2	1	-	1	-	-	-	-	1	1	3	3	2	3
	CO-2	3	3	1	2	3	2	-	-	-	-	-	-	3	3	3	3
	CO-3	1	2	3	1	-	2	2	-	-	-	1	-	3	3	3	3
	CO-4	1	1	3	1	-	2	2	2	-	-	3	1	3	3	3	3
	CO-5	3	1	1	1	-	1	-	-	-	-	-	-	3	3	2	2
	Target	2.2	2	2	1.2	0.6	1.6	0.8	0.4	-	-	1	0.4	3	3	2.6	2.8

Program articulation matrix 2024-25

ELECTIVES V	Course Name:	DESIGN OF R.C.C. & PRESTRESSED BRIDGE							Course Code:	CE 41678							
	Course Outcomes (COs) code & Statement	PO-1	PO-2	PO-3	PO-4	PO-5	PO-6	PO-7	PO-8	PO-9	PO-10	PO-11	PO-12	PSO-1	PSO-2	PSO-3	PSO-4
	CO-1	3	2	2	2	-	3	-	-	-	-	-	-	3	3	2	3
	CO-2	3	2	3	2	-	2	-	-	-	-	-	-	3	3	3	2
	CO-3	3	3	3	2	-	2	-	-	-	-	-	-	3	3	3	2
	CO-4	3	3	3	3	-	2	-	-	-	-	-	-	3	3	3	3
	CO-5	3	3	3	3	-	2	-	-	-	-	-	-	3	3	3	2
	Target	3	2	2	2	-	3	-	-	-	-	-	-	3	3	2.8	2.4
	Course Name:	AIR QUALITY MANAGEMENT							Course Code:								
	Course Outcomes (COs) code & Statement	PO-1	PO-2	PO-3	PO-4	PO-5	PO-6	PO-7	PO-8	PO-9	PO-10	PO-11	PO-12	PSO-1	PSO-2	PSO-3	PSO-4
	CO-1	3	2	-	2	-	3	-	-	-	-	-	-	3	2	3	3
	CO-2	3	3	2	2	-	3	-	-	-	-	-	-	3	3	3	3
	CO-3	3	2	2	2	-	2	-	-	-	-	-	-	3	2	3	3
	CO-4	3	2	-	1	-	2	-	-	-	-	-	-	3	2	2	3
	CO-5	3	3	2	2	-	3	-	-	-	-	-	-	3	3	3	3
	Target	3	2	-	2	-	3	-	-	-	-	-	-	3	2.4	2.8	3
	Course Name:	ADVANCED HYDROLOGIC ANALYSIS							Course Code:	CE41677							
	Course Outcomes (COs) code & Statement	PO-1	PO-2	PO-3	PO-4	PO-5	PO-6	PO-7	PO-8	PO-9	PO-10	PO-11	PO-12	PSO-1	PSO-2	PSO-3	PSO-4
	CO-1	3	3	2	2	-	1	-	-	-	-	-	-	3	3	3	3
	CO-2	3	3	3	3	-	1	-	-	-	-	-	-	3	3	3	3
	CO-3	3	3	3	3	-	2	-	-	-	-	-	-	3	3	3	3
	CO-4	3	2	2	2	-	1	-	-	-	-	-	-	3	3	3	3
	CO-5	3	3	2	3	-	1	-	-	-	-	-	-	3	3	3	3
	Target	3	3	2	2	-	1	-	-	-	-	-	-	3	3	3	3
	Course Name:	ADVANCED FLUID MECHANICS							Course Code:	CE41774							
	Course Outcomes (COs) code & Statement	PO-1	PO-2	PO-3	PO-4	PO-5	PO-6	PO-7	PO-8	PO-9	PO-10	PO-11	PO-12	PSO-1	PSO-2	PSO-3	PSO-4
	CO-1	3	3	2	2	1	-	1	-	-	-	-	-	3	3	3	2
	CO-2	3	3	3	2	1	-	1	-	-	-	-	-	3	3	3	3
	CO-3	3	3	2	3	2	-	1	-	-	-	-	-	3	3	3	3
	CO-4	3	3	2	2	1	-	0	-	-	-	-	-	3	3	3	2
	CO-5	3	3	2	2	1	-	-	-	-	-	-	-	3	3	3	2
	Target	3	3	2	2	1	-	1	-	-	-	-	-	3	3	3	2.4

Program articulation matrix 2024-25

ELECTIVES VI																	
	Course Name:	STRUCTURAL DYNAMICS							Course Code:								
	Course Outcomes (COs) code & Statement	PO-1	PO-2	PO-3	PO-4	PO-5	PO-6	PO-7	PO-8	PO-9	PO-10	PO-11	PO-12	PSO-1	PSO-2	PSO-3	PSO-4
	CO-1	3	3	2	3	1	-	-	-	-	-	-	-	3	2	3	2
	CO-2	3	3	3	3	2	-	-	-	-	-	-	-	3	3	3	2
	CO-3	3	3	3	3	2	-	-	-	-	-	-	-	3	3	3	2
	CO-4	3	3	3	3	2	-	-	-	-	-	-	-	3	3	3	2
	CO-5	3	3	3	3	2	-	-	-	-	-	-	-	3	3	3	2
	Target	3	3	2	3	1	-	-	-	-	-	-	-	3	2.8	3	2
	Course Name:	FINITE ELEMENT METHOD							Course Code:								
	Course Outcomes (COs) code & Statement	PO-1	PO-2	PO-3	PO-4	PO-5	PO-6	PO-7	PO-8	PO-9	PO-10	PO-11	PO-12	PSO-1	PSO-2	PSO-3	PSO-4
	CO-1	3	3	2	3	1	-	-	-	-	-	-	-	3	2	3	2
	CO-2	3	3	3	3	2	-	-	-	-	-	-	-	3	3	3	2
	CO-3	3	3	3	3	2	-	-	-	-	-	-	-	3	3	3	2
	CO-4	3	3	3	3	2	-	-	-	-	-	-	-	3	3	3	2
	CO-5	3	3	3	3	2	-	-	-	-	-	-	-	3	3	3	2
	Target	3	3	2.8	3	1.8	-	-	-	-	-	-	-	3	2.8	3	2
	Course Name:	MUNICIPAL SOLID WASTE MANAGEMENT							Course Code:		CE41711						
	Course Outcomes (COs) code & Statement	PO-1	PO-2	PO-3	PO-4	PO-5	PO-6	PO-7	PO-8	PO-9	PO-10	PO-11	PO-12	PSO-1	PSO-2	PSO-3	PSO-4
	CO-1	3	-	-	-	-	3	3	-	-	-	-	-	3	2	3	3
	CO-2	3	-	-	-	-	2	-	-	-	-	-	-	3	3	3	3
	CO-3	3	-	-	-	-	2	2	-	-	-	-	-	3	3	3	3
	CO-4	3	-	-	-	-	2	-	-	-	-	-	-	3	3	3	3
	CO-5	3	-	-	-	-	-	3	-	-	-	-	-	3	3	3	3
	Target	3	-	-	-	-	1.5	1.6	-	-	-	-	-	3	2.8	3	3