SESSION 2023-27

TRANSPORTATION ENGINEERING CE 21504 APRIL-MAY 2025

PO attainment

CO	CO Attainment	2	1
CO1	2.5	1.7	0.8
CO2	2.9	1.9	1.0
CO3	2.5	1.6	0.8
CO4	2.5	1.7	0.8
CO5	1.7	1.1	0.6

CO	PO#1	PO#2	PO#3	PO#4	PO#5	PO#6	PO#7	PO#8	PO#9	PO#10	PO#11	PSO1	PSO2	PSO3	PSO4	AVG CO
CO1	3	3	3	0	0	0	0	0	0	1	3	3	0	0	0	2.57
CO2	3	3	3	0	0	0	0	0	0	1	3	3	0	0	0	2.57
CO3	3	3	3	0	0	0	0	0	0	1	3	3	0	0	0	2.57
CO4	3	3	3	0	0	0	0	0	0	3	3	3	0	0	0	3.00
CO5	3	3	3	0	0	0	0	0	0	3	3	3	0	0	0	1.66
Average PO/PSO Attainment	3.0	3.0	3.0	-	-	-	-	-	-	1.4	3.0	3.0	-	-		2.7

CO	PO#1	PO#2	PO#3	PO#4	PO#5	PO#6	PO#7	PO#8	PO#9	PO#10	PO#11	PSO1	PSO2	PSO3	PSO4	AVG CO
CO1	2.49	2.49	2.49	0	0	0	0	0	0	0.83	2.49	2.49	0	0	0	2.22
CO2	2.46	2.46	2.46	0	0	0	0	0	0	0.82	2.46	2.46	0	0	0	2.29
CO3	2.91	2.91	2.91	0	0	0	0	0	0	0.97	2.91	2.91	0	0	0	2.99
CO4	2.49	2.49	2.49	0	0	0	0	0	0	0.83	2.49	2.49	0	0	0	2.22
CO5	1.66	1.66	1.66	0	0	0	0	0	0	1.66	1.66	1.66	0	0	0	1.66
Average PO Attainment achieved	2.4	2.4	2.4	-	-	-	-	-	-	1.0	2.4	2.4	-	-		2.2
Target PO	3.0	3.0	3.0	0.0	0.0	0.0	0.0	0.0	0.0	1.4	3.0	3.0	-	-		2.7
GAP	0.6	0.6	0.6	0.0	0.0	0.0	0.0	0.0	0.0	0.4	0.6	0.6	0.0	0.0		0.6

FACULTY NAME :	Dr. S.K. AHIRWAR/ Ms. MEGHA PATEL
SUBJECT CODE :	CE 21017
SUBJECT NOMN :	BUILDING PLANNING & ARCHITECTURE

SESSION : 2024-25
B.TECH YEAR : II nd YEAR
SEM : 3rd

COURSE OUTCOME

CO1 :	Identify building components and apply regulations in site planning
CO2 :	Utilize environmental design principles in architectural planning
CO3 :	Implement functional planning and integrate basic building services.
CO4 :	Describe architectural history and the architect's professional role.
CO5 :	Create architectural compositions and produce technical drawings.

CO- PO TARGET MATRIX

	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO 1	PSO 2	PSO 3	PSO 4
CO1	3	2	0	0	0	0	0	3	0	0	0	3	2	0	0	0
CO2	2	3	0	2	0	0	0	3	0	0	0	3	1	2	1	1
CO3	3	2	0	2	0	0	0	3	0	0	0	3	3	0	0	0
CO4	2	1	0	2	0	0	0	3	0	0	0	3	1	0	0	0
CO5	2	2	0	3	0	0	0	3	0	0	0	3	1	0	0	0
TARGET	2.4	2	0	2.25	0	0	0	3	0	0	0	3	2.333	1	1	1

CO- PO ATTAIN MATRIX

	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO 1	PSO 2	PSO 3	PSO 4
CO1	2.72	1.81	0.00	0.00	0.00	0.00	0.00	2.72	0.00	0.00	0.00	2.72	0.91	1.81	0.00	0.00
CO2	1.80	2.70	0.00	1.80	0.00	0.00	0.00	2.70	0.00	0.00	0.00	2.70	0.96	1.80	0.90	0.90
CO3	2.70	1.80	0.00	1.80	0.00	0.00	0.00	2.70	0.00	0.00	0.00	2.70	0.90	2.70	0.00	0.00
CO4	1.93	0.97	0.00	1.93	0.00	0.00	0.00	2.90	0.00	0.00	0.00	2.90	0.97	0.00	0.00	0.00
CO5	1.67	1.67	0.00	2.50	0.00	0.00	0.00	2.50	0.00	0.00	0.00	2.50	0.83	0.00	0.00	0.00
ATTAINED	2.16	1.79	0.00	2.01	0.00	0.00	0.00	2.70	0.00	0.00	0.00	2.70	0.90	2.10	0.90	0.90

23-27

FACULTY NAME : Dr. S.K. AHIRWAR/Ms. MEGHA
PATEL/Ms. SARIKA
KHEDEKAR/Ms. SUNINDA PARMAR

SUBJECT CODE : CE 21007

BUILDING PLANNING & ARCHITECTURE

SUBJECT NOMN : LAB

SESSION : 2024-25
B.TECH YEAR : II nd YEAR
SEM : 3rd

COURSE OUTCOME

CO1 : Interpret and apply architectural drawing conventions, including sign conventions.

CO2 : Create accurate architectural drawings for various residential structures, including doors, windows, staircases, and different house types

CO3 : Utilize AutoCAD software to produce professional-quality plans, elevations, and sections

CO- PO TARGET MATRIX

	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO 1	PSO 2	PSO 3	PSO 4
CO1	3	3	3	0	0	0	0	2	2	0	0	3	3	2	1	2
CO2	3	3	3	0	0	0	0	2	3	0	0	3	3	3	1	2
CO3	3	3	3	0	0	0	0	2	3	0	0	3	3	3	1	2
TARGET	3	3	3	0	0	0	0	2	2.667	0	0	3	3	2.667	1	2

CO- PO ATTAIN MATRIX

	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO 1	PSO 2	PSO 3	PSO 4
CO1	2.91	2.91	2.91	0	0	0	0	1.94	1.94	0	0	2.91	2.91	1.94	0.97	1.94
CO2	2.11	2.11	2.11	0.00	0.00	0.00	0.00	1.40	2.11	0.00	0.00	2.11	2.11	2.11	0.70	1.40
CO3	2.90	2.90	2.90	0	0	0	0	1.93	2.90	0	0	2.90	2.90	2.90	0.97	1.93
ATTAINED	2.64	2.64	2.64	0.00	0.00	0.00	0.00	1.76	2.32	0.00	0.00	2.64	2.64	2.32	0.88	1.76

FACULTY	Mr. TARUN KUMAR NARNAURE	SESSION : 2023-27
NAME :	Ms. NAMRATA KHEDE	
SUBJECT	C125104	B.TECH YEAR II
SUBJECT :	ENGINEERING MATERIALS	SEM : A

COURSE OUTCOME

CO1 : Analyze cement properties through standardized tests.

CO2 : Evaluate aggregate characteristics and behavior.

CO3 : Assess concrete workability and strength parameters.

CO4 : Examine various construction materials properties.

CO5 : Apply concrete mix design principles and methods.

CO-PO TARGET MATRIX

	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO 1	PSO 2	PSO 3	PSO 4
CO1	3	3	0	0	3	0	0	3	3	3	0	3	3	3	0	0
CO2	3	3	2	0	3	0	0	3	3	3	0	3	2	3	0	0
CO3	3	3	3	0	3	0	0	3	3	3	0	3	3	3	0	0
CO4	3	3	0	0	3	0	0	3	3	3	0	3	0	3	0	0
CO5	3	3	2	0	0	0	0	3	3	3	0	3	3	3	0	0
TARGET	3.00	3.00	2.30	-	3.00	-	-	3.00	3.00	3.00	-	3.00	2.80	3.00	-	-

CO-PO ATTAIN MATRIX

	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO 1	PSO 2	PSO 3	PSO 4
CO1	2.90	2.90	0	0	0	0	0	1.9	0.0	0.00	0	0.00	0.0	0.00	0	0
CO2	2.90	2.92	1.95	0	0	0	0	2.9	0.0	0.00	0	0.00	0.0	0.00	0	0
CO3	2.90	2.90	2.90	0	2.9175	0	0	2.9	2.92	2.92	0	2.92	2.9175	2.92	0	0
CO4	2.90	2.90	0	0	2.9	0	0	2.9	2.90	2.90	0	2.90	0	2.90	0	0
CO5	2.90	2.90	1.93	0	0	0	0	2.9	2.90	2.90	0	2.90	2.9	2.90	0	0
ATTAIN	2.9	2.9	1.5	-	1.5	-	-	2.6	1.0	1.0	-	1.0	1.0	1.0	-	-

FACULTY NAME :		SESSION :	JAN JUNE 2025
SUBJECT CODE :	CE41712	B.TECH YEAR :	II YEAR
SUBJECT NOMN :	ADVANCED CONSTRUCTION PRACTICES	SEM :	III

COURSE OUTCOME

CO1 : Describe the features and functions of special civil engineering structures and apply formwork design techniques.

CO2 : Identify and select appropriate construction equipment to improve site productivity.

CO3 : Explain the construction techniques for cofferdams, caissons, tunnels, and underwater concreting.

CO4 : Classify and recommend construction safety measures on field.

CO5 : Apply risk management techniques and network optimization strategies for efficient project execution.

CO- PO TARGET MATRIX

	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO 1	PSO 2	PSO 3	PSO 4
CO1	3	0	2	0	0	0	0	0	0	0	0	1	3	0	2	0
CO2	2	0	3	1	3	0	0	0	0	0	0	0	2	0	3	1
CO3	3	0	3	0	2	0	0	0	0	0	0	3	3	0	3	0
CO4	2	0	0	0	0	3	2	2	0	1	0	0	2	0	0	0
CO5	0	2	3	3	2	1	0	0	0	1	0	2	0	2	3	3
TARGET	2.5	2	2.75	2	2.3	2	2	2	0	1	0	1.5	2.5	2	2.75	2

2.2

2.16

CO- PO ATTAIN MATRIX

	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO 1	PSO 2	PSO 3	PSO 4
CO1	3.0	0	2.0	0	0	0	0	0	0	0	0	1.0	3.0	0	2.0	0
CO2	2.0	0	3.0	1.0	3.0	0	0	0	0	0	0	0	2.0	0	3.0	1.0
CO3	2.4	0	2.4	0	1.6	0	0	0	0	0	0	0	2.4	0	2.4	0
CO4	2.0	0	0	0	0	3.0	2.0	2.0	0	1.0	0	0	2.0	0	0	0
CO5	0	2.0	3.0	3.0	2.0	1.0	0	0	0	1.0	0	2.0	0	2.0	3.0	3.0
ATTAIN	2.3	2.0	2.6	2.0	2.2	2.0	2.0	2.0	-	1.0	-	1.5	2.3	2.0	2.6	2.0

FACULTY NAME : Dr. S.K. AHIRWAR/Dr. AKASH JAISWAL/ Ms. MEGHA PATEL
SUBJECT CODE : CE 21518
SUBJECT NOMN : ENGINEERING GEOLOGY

SESSION : 2024-25
B.TECH YEAR : II nd YEAR
SEM : 4th

COURSE OUTCOME

CO1 : Comprehend fundamental geological concepts and their relevance to civil engineering.

CO2 : Analyze rock properties and structural geology for engineering applications.

CO3 : Evaluate geological hazards, particularly landslides and earthquakes

CO4 : Apply geological investigation techniques for various civil engineering projects.

CO5 : Utilize remote sensing, GPS, and GIS technologies in civil engineering and resource mapping.

CO- PO TARGET MATRIX

	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO 1	PSO 2	PSO 3	PSO 4
CO1	3	2	0	0	2	2	0	0	0	3	0	3	2	2	1	1
CO2	2	3	0	0	2	2	0	0	0	3	0	3	2	3	1	1
CO3	3	2	0	0	2	2	0	0	0	3	0	3	2	2	2	2
CO4	2	1	0	0	2	2	0	0	0	3	0	3	2	2	2	2
CO5	2	2	0	3	2	2	0	0	3	3	0	3	3	2	2	2
TARGET	2.4	2	0	3	0	0	0	0	0	0	0	3	2.4	2.2	1.6	1.6

CO- PO ATTAIN MATRIX

	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO 1	PSO 2	PSO 3	PSO 4
CO1	2.94	1.96	0.00	0.00	0.00	1.96	0.00	0.00	0.00	2.94	0.00	2.94	1.96	1.96	0.98	0.98
CO2	1.68	2.52	0.00	0.00	0.00	1.68	0.00	0.00	0.00	2.52	0.00	2.52	1.68	2.52	0.84	0.84
CO3	2.67	1.78	0.00	0.00	1.78	1.78	0.00	0.00	0.00	2.67	0.00	2.67	1.78	1.78	1.78	1.78
CO4	1.68	0.84	0.00	0.00	1.68	1.68	0.00	0.00	0.00	2.52	0.00	2.52	2.52	1.68	1.68	1.68
CO5	1.50	1.50	0.00	2.25	1.50	1.50	0.00	0.00	0.00	2.25	0.00	2.25	2.25	1.50	1.50	1.50
ATTAINED	2.09	1.72	0.00	2.25	1.65	1.72	0.00	0.00	0.00	2.58	0.00	2.58	2.04	1.89	1.36	1.36

FACULTY NAME : Ms.MEGHA PATEL/Ms. RIKA KHEDEKAR

SUBJECT CODE : CE 21508

SUBJECT NOMN : ENGINEERING GEOLOGY LAB

SESSION : 2024-25
.TECH YEAR II nd YEAR
SEM : 4TH

COURSE OUTCOME

CO1 :	Analyze geological structures including folds, faults, and unconformities
CO2 :	Interpret geological features relevant to civil engineering projects.
CO3 :	Develop skills in geological map reading and cross-section drawing

CO- PO TARGET MATRIX

	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO 1	PSO 2	PSO 3	PSO 4
CO1	3	2	0	0	0	0	2	0	0	0	0	2	2	2	2	2
CO2	2	3	0	2	0	0	2	0	2	0	0	2	2	2	2	2
CO3	3	2	0	2	0	0	0	0	2	0	0	2	3	2	1	2
TARGET	2.7	2.3	0.0	2.0	0.0	0.0	2.0	0.0	2.0	0.0	0.0	2.0	2.5	2.0	1.7	2.0

CO- PO ATTAIN MATRIX

	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO 1	PSO 2	PSO 3	PSO 4
CO1	2.10	1.40	0.00	0.00	0.00	0.00	1.40	0.00	0.00	0.00	0.00	1.40	0.00	1.40	1.40	1.40
CO2	1.40	2.10	0.00	1.40	0.00	0.00	1.40	0.00	1.40	0.00	0.00	1.40	1.40	1.40	1.40	1.40
CO3	2.90	1.94	0.00	1.94	0.00	0.00	0.00	0.00	1.94	0.00	0.00	1.94	2.90	1.94	0.97	1.94
.TTAINE!	2.14	1.81	0.00	1.67	0.00	0.00	1.40	0.00	1.67	0.00	0.00	1.58	2.15	1.58	1.26	1.58

FACULTY NAME:	DR. R.K. KHARE, MR. MAHESH CHANDRA		SESSION:	2023-2027
SUBJECT CODE:	CE 21594		B.TECH YEAR:	II
SUBJECT NOMN:	STRUCTURAL MECHANICS		SEM:	IV

CO	Statement
1	Determine the deflection of determinate structures using energy methods
2	Analyze axially loaded and eccentric columns and calculate buckling loads.
3	Analyze curved flexural members, springs, shells and pressure vessels
4	Compute stresses in beams subjected to unsymmetrical bending.
5	Analyze and interpret response of single degree of freedom systems subjected to harmonic loading.

CO	PO#1	PO#2	PO#3	PO#4	PO#5	PO#6	PO#7	PO#8	PO#9	PO#10	PO#11	PSO1	PSO2	PSO3	PSO4
CO1	3.0	3.0	3.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	3.0	3.0	3.0	0.0	0.0
CO2	3.0	3.0	3.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	3.0	3.0	3.0	0.0	0.0
CO3	3.0	3.0	3.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	3.0	3.0	3.0	0.0	0.0
CO4	3.0	3.0	3.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	3.0	3.0	3.0	0.0	0.0
CO5	3.0	3.0	3.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	3.0	3.0	3.0	0.0	0.0
PO Attainment															
Average PO/PSO Attainment	3.0	3.0	3.0	-	-	-	-	-	-	-	3.0	3.0	3.0	-	-

CO	PO#1	PO#2	PO#3	PO#4	PO#5	PO#6	PO#7	PO#8	PO#9	PO#10	PO#11	PSO1	PSO2	PSO3	PSO4
CO1	2.3	2.3	2.3	0	0	0	0	0	0	0	2.3	2.3	2.3	0	0
CO2	2.3	2.3	2.3	0	0	0	0	0	0	0	2.3	2.3	2.3	0	0
CO3	2.2	2.2	2.2	0	0	0	0	0	0	0	2.2	2.2	2.2	0	0
CO4	2.3	2.3	2.3	0	0	0	0	0	0	0	2.3	2.3	2.3	0	0
CO5	2.6	2.6	2.6	0	0	0	0	0	0	0	2.6	2.6	2.6	0	0
PO Attainment															
Average PO/PSO Attainment	2.3	2.3	2.3	-	-	-	-	-	-	-	2.3	2.3	2.3	-	-

FACULTY NAME:	MR. VIVEK TIWARI, MR. KRISHNA PRATAP VERMA, DR. AAKASH JAISWAL, DR. ARTI SAHU		SESSION:	2023-2027
SUBJECT CODE:	CE 21554 / CE 21804		B.TECH YEAR:	II
SUBJECT NOMN:	STRUCTURAL MECHANICS LAB		SEM:	IV

CO	Statement
1	Develop a thorough understanding of the behavior of various structural elements (beams, trusses, and columns) under different loading conditions
2	Apply theoretical principles such as strain energy methods, Euler's theory, and Castigliano's theorem to analyze and predict structural responses
3	Enhance analytical and computational skills by verifying experimental results through analytical methods and developing computer programs for structural analysis
4	Develop proficiency in conducting experiments related to deflection, bending, shear force, and moment of inertia and verify results with theoretical calculations
5	Gain hands-on experience in using experimental and computational tools to analyze structural elements, enhancing the ability to apply these techniques in real-world engineering

CO	PO#1	PO#2	PO#3	PO#4	PO#5	PO#6	PO#7	PO#8	PO#9	PO#10	PO#11	PSO1	PSO2	PSO3	PSO4
CO1	3.0	3.0	3.0	-	-	-	-	3.0	-	-	3.0	3.0	3.0	-	-
CO2	3.0	3.0	3.0	-	-	-	-	3.0	-	-	3.0	3.0	3.0	-	-
CO3	3.0	3.0	3.0	-	-	-	-	3.0	-	-	3.0	3.0	3.0	-	-
CO4	3.0	3.0	3.0	-	-	-	-	3.0	-	-	3.0	3.0	3.0	-	-
CO5	3.0	3.0	3.0	-	-	-	-	3.0	-	-	3.0	3.0	3.0	-	-
PO Attainment															
Average PO/PSO Attainment	3.0	3.0	3.0	-	-	-	-	3.0	-	-	3.0	3.0	3.0	-	-

CO	PO#1	PO#2	PO#3	PO#4	PO#5	PO#6	PO#7	PO#8	PO#9	PO#10	PO#11	PSO1	PSO2	PSO3	PSO4
CO1	2.9	2.9	2.9	-	-	-	-	2.9	-	-	2.9	2.9	2.9	-	-
CO2	2.9	2.9	2.9	-	-	-	-	2.9	-	-	2.9	2.9	2.9	-	-
CO3	2.8	2.8	2.8	-	-	-	-	2.8	-	-	2.8	2.8	2.8	-	-
CO4	2.9	2.9	2.9	-	-	-	-	2.9	-	-	2.9	2.9	2.9	-	-
CO5	2.9	2.9	2.9	-	-	-	-	2.9	-	-	2.9	2.9	2.9	-	-
PO Attainment															
Average PO/PSO Attainment	2.9	2.9	2.9	-	-	-	-	2.9	-	-	2.9	2.9	2.9	-	-

FACULTY NAME :	Pranav Thepel Ravindra Parmar		SESSION :	JAN JUNE 2025
SUBJECT CODE :	CE-21512		B.TECH YEAR :	II YEAR
SUBJECT NOMN :	Construction Technology -1		SEM :	IV

COURSE OUTCOME

CO1 : Describe the various available conventional and new construction materials and techniques.

CO2 : Explain the suitability of materials required for various structural elements.

CO3 : Describe the suitability different construction techniques

CO4 : Apply the suitability of locally available material in building constructions.

CO5 : Explain the application of globally available equipment's in construction technology.

CO- PO TARGET MATRIX

	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO 1	PSO 2	PSO 3	PSO 4
CO1	3	0	0	0	2	2	2	0	0	0	0	2	3	2	0	0
CO2	3	0	0	0	2	2	2	0	0	0	0	2	3	0	0	0
CO3	3	0	0	0	2	2	2	0	0	0	0	2	2	2	0	0
CO4	3	0	0	0	2	2	2	0	0	0	0	2	2	2	0	0
CO5	3	0	0	0	2	2	2	0	0	0	0	2	2	2	0	0
TARGET	3	0	0	0	2	2	2	0	0	0	0	2	2.4	2	0	0

CO- PO ATTAIN MATRIX

	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO 1	PSO 2	PSO 3	PSO 4
CO1	1.7	0	0	0	0	1.2	1.2	0	0	0	0	1.2	1.74	1.16	0	0
CO2	2.4	0	0	0	0	1.6	1.6	0	0	0	0	1.6	2.37	0	0	0
CO3	2.9	0	0	0	0	2.0	2.0	0	0	0	0	2.0	1.97	1.97	0	0
CO4	2.8	0	0	0	0	1.8	1.8	0	0	0	0	1.8	1.84	1.84	0	0
CO5	2.5	0	0	0	1.7	1.7	1.7	0	0	0	0	1.7	1.69	1.69	0	0
ATTAIN	2.5	-	-	-	1.7	1.6	1.6	-	-	-	-	1.6	1.9	1.7	-	-

FACULTY NAME :	Pranav Thepe / Abinash Paumar		SESSION :	JAN JUNE 2025
SUBJECT CODE :	CE21801		B.TECH YEAR :	II YEAR
SUBJECT NOMN :	CONSTRUCTION TECHNOLOGY-I LABORATORY		SEM :	IV

COURSE OUTCOME

CO1 : Analyze and apply fundamental concepts in building construction, including foundations, masonry techniques, and structural elements

CO2 : Evaluate and compare different types of construction materials and methods used in flooring, roofing, and staircase design.

CO3 : Develop practical skills in interpreting and creating technical drawings related to various building components and systems.

CO- PO TARGET MATRIX

	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO 1	PSO 2	PSO 3	PSO 4
CO1	3	3	0	0	0	0	0	2	0	0	0	3	3	3	0	0
CO2	3	3	0	0	0	0	0	0	0	0	0	3	2	2	0	0
CO3	3	3	0	0	0	0	0	2	0	0	0	3	3	2	0	0
TARGET	3	3	0	0	0	0	0	2	0	0	0	3	2.7	2.3	0	0

CO- PO ATTAIN MATRIX

	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO 1	PSO 2	PSO 3	PSO 4
CO1	3.0	3.0	0	0	0	0	0	2.0	0	0	0	3.0	2.95	2.95	0	0
CO2	3.0	3.0	0	0	0	0	0	0	0	0	0	3.0	1.99	1.99	0	0
CO3	3.0	3.0	0	0	0	0	0	2.0	0	0	0	3.0	2.97	1.98	0	0
ATTAIN	3.0	3.0	-	-	-	-	-	2.0	-	-	-	3.0	2.6	2.3	-	-

FACULTY NAME :	Ms. Shruti Bajpai, Ms. Namrata Khede		SESSION :	23 batch
SUBJECT CODE :	CE 31902		B.TECH YEAR :	III YEAR
SUBJECT NOMN :	CE31902 (Technical Visit)		SEM :	5 SEM

COURSE OUTCOME

CO1 :	Explain about the project visited/studied during the internship
CO2 :	Describe use of advanced tools and techniques encountered in project undertaken during industrial training and visit.
CO3 :	Write the use of evidences about the interaction with industrial personnel
CO4 :	Exhibit awareness about general work/place behaviour and build interpersonal and team skills.
CO5 :	Prepare professional work, reports and presentations.

CO- PO TARGET MATRIX

CO	PO#1	PO#2	PO#3	PO#4	PO#5	PO#6	PO#7	PO#8	PO#9	PO#10	PO#11	PO#12	PSO1	PSO2	PSO3	PSO4
CO1	1	1	1	2	1	1	1	1	1	1	3	1	1	1	1	1
CO2	2	2	2	2	3	2	1	3	3	3	3	3	1	2	2	1
CO3	1	1	1	2	1	2	2	3	3	3	3	3	1	2	1	1
CO4	1	1	1	1	1	1	1	3	3	2	3	3	1	1	1	3
CO5	3	2	2	2	1	1	1	2	3	2	2	1	1	1	1	1
CO6	1	2	2	1	1	1	2	3	3	2	3	3	2	2	3	3
TARGET	1.60	1.40	1.60	1.80	1.60	1.60	1.40	2.00	2.00	1.80	2.80	2.20	1.00	1.40	1.20	1.40

CO- PO ATTAIN MATRIX

	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO 1	PSO 2	PSO 3	PSO 4
CO1	0.00	0.00	0.00	2.00	0.00	0.00	0.00	0.00	0.00	0.00	2.00	0.00	0.00	0.00	0.00	0.00
CO2	1.90	1.90	1.90	1.90	2.90	1.90	0.00	0.00	0.00	0.00	2.90	1.90	1.90	1.90	1.90	0.00
CO3	0.00	0.00	1.90	1.90	0.00	1.90	2.90	2.90	2.90	2.90	2.90	0.00	0.00	1.90	0.00	0.00
CO4	0.00	0.00	1.90	0.00	0.00	0.00	0.00	2.90	2.90	1.90	2.90	2.90	0.00	0.00	0.00	2.90
CO5	2.90	1.90	1.90	1.90	1.90	1.90	1.90	1.90	1.90	1.90	1.90	1.90	0.00	0.00	0.00	0.00
ATTAIN	1.0	0.8	1.1	1.5	1.0	1.1	0.8	1.5	1.5	1.3	2.7	2.1	0.0	0.8	0.4	0.6
TARGET	1.60	1.40	1.60	1.80	1.60	1.40	1.40	2.10	2.10	1.80	2.80	2.20	1.00	1.40	1.30	1.40