

DEPARTMENT OF CIVIL & ENVIRONMENTAL ENGINEERING
BIRLA INSTITUTE OF TECHNOLOGY
(A Deemed to be University u/s 3 of UGC Act)
MESRA, RANCHI

Ref.-CEE/2024-25/ FA 4.

Date:16-05-2025

Feedback Analysis and Action Taken Report (FAATR)

Department: Civil Engineering
Batch: SP25
Semesters Covered: IV, and VI
Academic Year: 2024-25

Overview:

Feedback Questions: 8

A	Q1. Content (breadth and depth), relevance and utility of the course
	Q2. Availability of study materials and course coverage (w.r.t. syllabus and lecture plan)
B	Q3. Temperament, behavior, mannerism, and fairness of the teacher (in dealing with the students, and clarifying the questions and doubts raised by them)
	Q4. Availability and approachability of the teacher and quality of slides, lecture materials or board work
C	Q5. Pace, clarity, continuity of lectures and contents and ease to follow and interaction with students during or outside the class or laboratory
	Q6. Interest and excitement created among the students about the subject domain
D	Q7. Assessment and grading (fairness, objectivity, transparency), Question paper, assignment
	Q8. Level of learning, Satisfaction of teaching-learning process

Method: ERP-based data extraction and deviation analysis

Significant Deviations Report

HS- Highly Significant ($\geq +10\%$)

S- Significant ($> 0\%$ and $< 10\%$)

CAN-Corrective Action Needed ($\leq -20\%$)

N- Neutral (between -20% and 0%)

Sem	Subject Code	Subject Name	Q1	Q2	Q3	Q4	Q5	Q6	Q7	Q8
IV (Batch 2023-27)	CE303	Geotechnical Engineering (GE)	CAN	CAN	CAN	CAN	CAN	CAN	CAN	CAN
	CE207	Structural Analysis - II (SA-II)	HS	HS	HS	HS	HS	HS	HS	HS
	CE208	Surveying (Surv)	S	S	S	S	S	S	S	S
	CE209	Construction Engineering and Management (CEM)	HS	HS	HS	HS	HS	HS	HS	HS
	CE420	Air Pollution and Control (APC)	N	N	N	N	N	N	N	N
	CE421	Solid Waste Management (SWM)	S	S	S	S	S	S	S	S
	CE311	Geotechnical Engineering Laboratory (GE Lab)	N	N	N	N	N	N	N	N
	CE212	Surveying Field Work (SFW)	N	N	S	S	S	S	S	S
VI (Batch 2022-27)	CE308	Structural Design- II (SD-II)	N	N	N	N	N	N	N	N
	CE302	Water Resources Engineering (WRE)	S	S	S	HS	HS	HS	HS	HS
	CE210	Earthquake Engineering and Disaster Management (EEDM)	N	N	N	N	N	N	N	N
	CE414	Pre-stressed Concrete (PSC)	N	N	N	N	N	N	N	N
	CE412	Structural Dynamics	S	S	S	S	S	S	S	S
	CE435	Advanced Concrete Structures Design (ACSD)	S	HS	HS	HS	HS	HS	HS	HS
	CE438	Traffic Engineering & Management (TEM)	N	N	N	N	N	N	N	N
	CE306	Water Resources Engineering Laboratory (WRE Lab)	S	S	S	HS	N	N	HS	N
	CE309	Structural Engineering Laboratory – II (SE Lab - II)	N	N	N	N	N	N	N	N

Subject-wise Analysis (Clause 2.4)

Subject-Wise Analysis (Clause 2.4)

SP25 – IV Semester (Batch: 2023–2027)

- Subjects with Consistently High Positive Deviations ($HS \geq +10\%$):
 - i. Structural Analysis – II (CE207): All questions show highly significant positive deviation (17.13% to 22.62%)
 - ii. Construction Engineering and Management (CE209): Deviation consistently $>10\%$ (10.33% to 15.48%)
- Subjects with Consistently High Negative Deviations ($CAN \leq -20\%$):
 - i. Geotechnical Engineering (CE303): All questions show highly significant negative deviation (-21.32% to -26.13%)
- Mixed or Mild Performance (N or S):
 - i. CE208, CE420, CE421, CE311, CE212 show neutral to significant deviations in some areas, needing topic-specific review.

SP25 – VI Semester (Batch: 2022–2027)

- Highly Positive Subjects (HS):
 - I. Water Resources Engineering (CE302) and Advanced Concrete Structures Design (CE435) showed consistent high positive deviation (up to 13.98%)
- Negative Trend (N or CAN):
 - I. PSC (CE414) and EEDM (CE210) consistently below neutral (-7% to -13.13%)
 - II. TEM (CE438) and SE Lab. II (CE309) show mild but consistent negative trends.

Batch-wise Performance (Clause 2.5)

1. IV Sem (2023–27): Avg ~ 3.9 - No Batch-level Issue
2. VI Sem (2022–27): Avg ~ 3.9 - No Batch-level Issue

This trend suggests either stricter expectations or perception issues.

Student Comment Analysis (Clause 2.6)

No Major Comments

Corrective Actions

Negative Deviations:

- 1) Batch: 2023–2027 (IV Semester)
 - a) Subject: CE303 – Geotechnical Engineering

Actions:

Faculty is advised to restructure lecture content with more real-life examples and ensure stronger conceptual explanations.

- b) Subject: CE311 – GE Lab

Actions:

Faculty instructed to give pre-lab briefings for better understanding.

- 2) Batch: 2022–2027 (VI Semester)
 - a) Subject: CE414 – Pre-Stressed Concrete & CE210 – EEDM

Actions:

Content delivery audit and supplementary sessions to enhance conceptual understanding.

Clause Referenced: 3.2 – For Positive Deviations

Faculty acknowledged for excellent teaching practices in Department Meeting for the below subjects:

- a) CE207: Structural Analysis - II,
- b) CE209: Construction Engineering and Management (CEM)
- c) CE302: Water Resources Engineering (WRE)
- d) CE435: Advanced Concrete Structures Design

B
16/5/25

Dr. Bindhu Lal-Chairman
(Chairman)

Bh
16/5/25

Dr. R Naresh
(Member)

Dr. Mani Mohan
(Member)

16/05/25

A
16/05/25

Dr. Ashish Kr. Patnaik
(Member)

P
16/5/25

Dr. Puja Rajhans
(Member)

DECLARATION

I, Prof. Bindhu Lal, Head of the Department of Civil & Environmental Eng., hereby declare that:

1. Course feedback for the SP25 semester of the academic year 24-25 has been collected.
2. The feedback has been thoroughly analysed according to the institutional Standard Operating Procedure for Course Feedback Analysis.
3. Appropriate measures for reward and appreciation have been taken for courses/faculty showing significant positive deviation from average.
4. Appropriate corrective actions have been identified and implemented for courses showing significant negative deviations from averages.
5. Where applicable, meetings with student batches have been conducted to address overall satisfaction issues.
6. All findings and actions have been documented in this Feedback Analysis and Action Taken Report.
7. The report has been presented to the department faculty, published on the department webpage, and submitted to the IQAC.

Date: 16/5/25

Place: BIT Mesra

Signature: B. Lal
16/5/25

Name: Prof. Bindhu Lal

Name of the Department: Civil & Environmental Eng.

SP25 - IV Semester										BATCH: 2023-2027							
Subject Code	Subject Name	FEEDBACK								% Deviation							
		Q1	Q2	Q3	Q4	Q5	Q6	Q7	Q8	Q1	Q2	Q3	Q4	Q5	Q6	Q7	Q8
GE303	Geotechnical Engineering (GE)	3.08	3.10	2.94	2.88	2.94	2.90	2.88	2.85	-22.42	-21.32	-25.12	-26.13	-24.64	-24.87	-25.34	-25.54
CE207	Structural Analysis - II (SA-II)	4.65	4.65	4.65	4.69	4.65	4.69	4.73	4.67	17.13	18.02	18.43	20.29	19.19	21.50	22.62	22.01
CE208	Surveying (Surv)	4.17	4.10	4.06	4.06	4.15	4.06	4.13	4.10	5.04	4.06	3.41	4.14	6.38	5.18	7.06	7.12
CE209	Construction Engineering and Management (CEM)	4.38	4.35	4.35	4.35	4.38	4.33	4.38	4.42	10.33	10.41	10.79	11.57	12.27	12.18	13.55	15.48
CE420	Air Pollution and Control (APC)	3.83	3.83	3.89	3.72	3.66	3.39	3.39	3.44	-3.53	-2.79	-0.92	-4.58	-8.75	-12.18	-12.12	-10.12
GE421	Solid Waste Management (SWM)	4.23	4.13	4.27	4.20	4.20	4.20	4.20	4.03	6.55	4.82	8.76	7.73	7.66	8.81	8.88	5.29
GE311	Geotechnical Engineering Laboratory (GE Lab)	3.46	3.44	3.25	3.33	3.29	3.27	3.23	3.23	-12.85	-12.69	-17.22	-14.59	-15.67	-15.28	-16.27	-15.61
CE212	Surveying Field Work (SFW)	3.96	3.92	4.00	3.96	4.04	4.04	3.92	3.88	-0.25	-0.51	1.88	1.57	3.56	4.66	1.62	1.37
Average		3.97	3.94	3.93	3.90	3.90	3.86	3.86	3.83	3.90							

SP25 - VI Semester										BATCH: 2022-2027									
Subject Code	Subject Name	FEEDBACK								% Deviation									
		Q1	Q2	Q3	Q4	Q5	Q6	Q7	Q8	Q1	Q2	Q3	Q4	Q5	Q6	Q7	Q8		
CE308	Structural Design -II (SD-II)	3.95	3.89	3.84	3.82	3.76	3.71			-1.14	-1.91	-1.44	-2.01	-0.41	-0.15	-3.31	-2.34		
CE302	Water Resources Engineering (WRE)	4.33	4.33	4.33	4.33	4.33	4.33			8.37	9.19	9.71	10.49	12.89	13.19	11.34	13.98		
CE210	Earthquake Engineering and Disaster Management (EEDM)	3.64	3.58	3.55	3.51	3.56	3.53			-8.90	-9.72	-10.05	-10.43	-7.18	-7.20	-9.23	-7.08		
CE414	Pre-stressed Concrete (PSC)	3.62	3.54	3.50	3.42	3.42	3.30			-9.40	-10.73	-11.32	-12.73	-10.83	-10.60	-12.06	-13.13		
CE412	Structural Dynamics	4.14	4.14	4.10	4.07	3.93	3.90			3.62	4.40	3.89	3.86	3.51	2.73	1.06	2.66		
CE435	Advanced Concrete Structures Design (ACSD)	4.37	4.37	4.37	4.33	4.30	4.33			9.37	10.20	10.73	11.51	12.89	13.19	10.57	13.98		
CE438	Traffic Engineering & Management (TEM)	3.67	3.67	3.67	3.67	3.67	3.67			-8.15	-7.45	-7.01	-6.35	-4.32	-4.07	-5.63	-3.39		
CE306	Water Resources Engineering Laboratory (WRE Lab)	4.33	4.33	4.33	4.33	3.67	3.67			8.37	9.19	9.71	10.49	-4.32	-4.07	11.34	-3.39		
CE309	Structural Engineering Laboratory -II (SE Lab -II)	3.91	3.84	3.78	3.73	3.75	3.75			-2.14	-3.17	-4.22	-4.82	-2.23	-3.02	-4.09	-1.29		
Average		4.00	3.97	3.95	3.92	3.84	3.83	3.89	3.80	3.90									