

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 3

Date:13/12/2024

Feedback Analysis and Action Taken Report (FAATR)

Department: Civil Engineering

Batch: MO24

Semesters Covered: III, V, and VII

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
III (Batch 2023-27)	MT131	UHV2: UNDERSTANDING HARMONY	N	N	N	N	N	N	N	N
	CE201	SOLID MECHANICS	S	S	S	S	S	S	S	S
	CE202	STRUCTURAL ANALYSIS I	N	N	N	N	N	N	N	N
	CE203	FLUID MECHANICS	S	S	S	S	N	N	S	S
	CE204	BUILDING MATERIALS AND CONSTRUCTION	N	N	N	S	HS	HS	HS	HS
	CE205	CIVIL ENGINEERING DRAWING	N	N	N	N	N	N	N	N
	CE206	FLUID MECHANICS LABORATORY	S	S	HS	HS	HS	HS	HS	HS
V (Batch 2022-26)	CE419	ADVANCED GEOTECHNICAL ENGINEERING	N	CAN	N	N	N	N	N	N
	CE301	STRUCTURAL DESIGN I	S	S	S	S	S	S	S	S
	CE304	ENVIRONMENTAL ENGINEERING	N	N	N	N	N	N	N	N
	CE305	TRANSPORTATION ENGINEERING	S	HS	HS	HS	HS	HS	S	HS
	CE211	STRUCTURAL ENGINEERING LABORATORY I	N	N	N	N	N	S	S	S
	CE307	ENVIRONMENTAL ENGINEERING LABORATORY	S	N	N	N	N	S	N	N
	CE310	COMPUTER AIDED ANALYSIS AND DESIGN	S	N	S	S	N	S	S	N
	CE413	CONCRETE TECHNOLOGY	HS	S	S	HS	HS	HS	S	HS
	CE312	TRANSPORTATION ENGINEERING LABORATORY	S	S	HS	HS	HS	S	HS	HS

Sem	Subject Code	Subject Name	Q1	Q2	Q3	Q4	Q5	Q6	Q7	Q8
VII (Batch 2021-25)	CE412	STRUCTURAL DYNAMICS	S	HS	N	S	N	S	S	S
	CE425	REMOTE SENSING IN CIVIL ENGINEERING	HS	HS	HS	S	N	HS	S	S
	CE213	SPECIFICATIONS ESTIMATION AND COSTING	N	N	S	N	N	N	N	N
	CE423	HARBOUR & AIRPORT ENGINEERING	N	N	N	N	CAN	N	N	N
	CE416	OPEN CHANNEL FLOW	N	N	N	N	HS	N	N	N
	CE402	REMOTE SENSING AND GIS LABORATORY	S	S	HS	S	N	S	S	S

Subject-wise Analysis (Clause 2.4)

Subject Code	Subject Name	Consistent Deviation	Nature	Action Category
CE201	Solid Mechanics	Across Q1-Q8: all positive	Consistent	S
CE202	STRUCTURAL ANALYSIS I	All Qs – all Negative	Consistent	N
CE203	FLUID MECHANICS	Few Negative	Inconsistent	S/N
CE204	BUILDING MATERIALS AND CONSTRUCTION	Negative Then Positive	INCREASING	N/S
CE205	CIVIL ENGINEERING DRAWING	All Qs – all Negative	Consistent	N
CE206	FLUID MECHANICS LABORATORY	Across Q1-Q8: all positive	Consistent	HS

Subject Code	Subject Name	Consistent Deviation	Nature	Action Category
CE419	Advanced Geotech Engg	All Qs – positive	Consistent	S
CE304	Environmental Engineering	Q3–Q8 mostly positive	Consistent	S
CE305	Transportation Engineering	Q1–Q8 Negative	Consistent	N
CE211	Structural Engineering Laboratory I	All Qs – positive	Consistent	S
CE307	Environmental Engineering Laboratory	All Qs – Negative	Consistent	N
CE310	Computer Aided Analysis And Design	Few Negative	Inconsistent	S/N
CE413	Concrete Technology	All Qs – positive	Consistent	HS
CE312	Transportation Engg Lab	Q1–Q8 Negative	Consistent	N
CE412	Structural Dynamics	Few Negative	Inconsistent	S/N
CE425	Remote Sensing In Civil Engineering	All Qs – mostly positive	Consistent	S

Subject Code	Subject Name	Consistent Deviation	Nature	Action Category
CE213	Specifications Estimation And Costing	Q1–Q8 Negative	Consistent	N
CE423	Harbour & Airport Engineering	Q1–Q8 Negative	Consistent	N
CE416	Open Channel Flow	Q1–Q8 mostly Negative	Consistent	N
CE402	Remote Sensing And Gis Laboratory	All Qs – mostly positive	Consistent	S

Batch-wise Performance (Clause 2.5)

1. III Sem (2022–26): Avg ~4.11 - No Batch-level Issue
2. V Sem (2021–25): Avg ~4.11 - No Batch-level Issue
3. VII Sem (2020–24): Avg ~3.98 - No Batch-level Issue

Student Comment Analysis (Clause 2.6)

No Major Comments

Corrective Actions

Negative Deviations:

- 1) Batch: 2022–2026 (III Semester)

CE202 STRUCTURAL ANALYSIS I

Deviation: Consistently negative across Q1–Q8 (Max: –11.96%)

Clause Referenced: 3.1 – For Negative Deviations

Actions:

The faculty has been advised to incorporate problem-solving sessions at the end of each class. Include more one-to-one discussions

Subject: CE205 **CIVIL ENGINEERING DRAWING**

Deviation: Consistently negative across Q1–Q8 (Max: –13.88%)

Actions:

The faculty has been advised to interact with individuals and discuss the complex parts.

2) Batch: 2021–2025 (V Semester)

a) Subject: CE304 – Environmental Engineering

Deviation: Highly Negative (up to –23.86%) - *Corrective Action Needed (CAN)* status

Clause Referenced: 3.1, 3.4 – *Subject with Highest Deviation*

Actions:

Reorganising lesson plan with dedicated sessions for numerical problem-solving, more stepwise teaching, inclusion of solved numerical worksheets, and structured notes.

b)

Subject: CE305 – TRANSPORTATION ENGINEERING

Deviation: consistently Negative (–13.58% max)

Actions:

Reorganising lesson plan, integrating case studies, and visual content.

c) Subject: CE312 – TRANSPORTATION ENGINEERING LABORATORY

Deviation: moderately Negative (–11.69% max)

Actions:

More focused interaction with individuals is advised for the concerned faculty.

3) Batch: 2020–2024 (VII Semester)

a) Subject: CE213 – SPECIFICATIONS ESTIMATION AND COSTING

Deviation: Minor Negative (–15.41% max)

Actions:

Faculty are instructed to discuss sessional and individual assessment continuously.

b) Subject: CE423 – HARBOUR & AIRPORT ENGINEERING

Deviation: Highly Negative (up to –23.04%) - *Corrective Action Needed (CAN)* status

Clause Referenced: 3.1, 3.4 – *Subject with Highest Deviation*

Actions:

Discussion with individuals continuously. Early lecture notes to students. Class assignments.

c) Subject: CE416 – OPEN CHANNEL FLOW

Deviation: Minor Negative (–10.53% max)

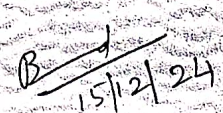
Actions:

Faculty members are instructed to share lecture notes in advance and focus on students who are struggling separately.

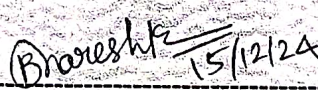
Clause Referenced: 3.2 – For Positive Deviations

Faculty acknowledged for excellent teaching practices in Department Meeting

- a) Subject: CE204 BUILDING MATERIALS AND CONSTRUCTION (III Sem)
Deviation: Highly Positive (Max +17.22%)
- b) Subject: CE206 FLUID MECHANICS LABORATORY (III Sem)
Deviation: Max +16.67% (approaching HS)
- c) Subject: CE419 ADVANCED GEOTECHNICAL ENGINEERING (V Sem)
Deviation: Highly Positive (Max +16.33%)
- d) Subject: CE413 CONCRETE TECHNOLOGY (V Sem)
Deviation: Highly Positive (Max +17.01%)
- e) Subject: CE412 STRUCTURAL DYNAMICS (VII Sem)
Deviation: Highly Positive (Max +10.61%)
- f) Subject: CE425 REMOTE SENSING IN CIVIL ENGINEERING (VII Sem)
Deviation: Highly Positive (Max +16.59%)
- g) Subject: CE402 REMOTE SENSING AND GIS LABORATORY (VII Sem)
Deviation: Highly Positive (Max +10.31%)



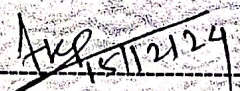
Dr. Bindhu Lal-Chairman
(Chairman)



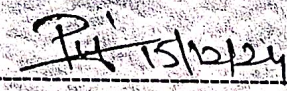
Dr. R Naresh
(Member)



Dr. Mani Mohan
(Member)



Dr. Ashish Kr. Patnaik
(Member)



Dr. Puja Rajhans
(Member)

DECLARATION

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

1. Course feedback for the MO 24 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:

15/12/24

Place:

BIT Mesra

Signature:

B. Lal
15/12/24

Name:

Prof. Bindhu Lal

Name of the Department:

Civil & Env. al Eng.

Annexure I: Analysis

MO 24 - III 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
MT131	UHV2: UNDERSTANDING HARMONY	3.86	3.89	3.8	3.7	3.82	3.78	3.82	3.82	-3.47	-2.78	-7.80	-8.83	-8.61	-10.00	-8.61	-7.44
CE201	SOLID MECHANICS	4.3	4.3	4.3	4.3	4.3	4.3	4.3	4.3	7.54	7.46	4.33	5.95	2.87	2.38	2.87	4.19
CE202	STRUCTURAL ANALYSIS I	3.66	3.68	3.72	3.74	3.77	3.7	3.68	3.72	-8.47	-8.03	-9.74	-7.85	-9.81	-11.90	-11.96	-9.87
CE203	FLUID MECHANICS	4.34	4.32	4.28	4.28	4.17	4.15	4.26	4.23	8.54	7.96	3.85	5.46	-0.24	-1.19	1.91	2.49
CE204	BUILDING MATERIALS AND CONSTRUCTION	3.9	3.8	4	4.1	4.7	4.8	4.9	4.6	-2.47	-5.03	-2.95	1.02	12.44	14.29	17.22	11.46
CE205	CIVIL ENGINEERING DRAWING	3.83	3.72	3.85	3.79	3.7	3.77	3.6	3.62	-4.22	-7.03	-6.59	-6.62	-11.48	-10.24	-13.88	-12.29
CE206	FLUID MECHANICS LABORATORY	4.1	4.3	4.9	4.5	4.8	4.9	4.7	4.6	2.54	7.46	18.39	10.88	14.83	16.67	12.44	11.46
Average		4.00	4.00	4.12	4.06	4.18	4.20	4.18	4.13	4.11							

MO 24 - V Semester										BATCH: 2022-2026							
Subject Code	Subject Name	FEEDBACK								% Deviation							
		Q1	Q2	Q3	Q4	Q5	Q6	Q7	Q8	Q1	Q2	Q3	Q4	Q5	Q6	Q7	Q8
CE419	ADVANCED GEOTECHNICAL ENGINEERING	3.05	2.88	3.00	2.95	2.91	3.00	3.09	2.95	3.60	4.13	4.95	4.27	3.35	2.12	16.33	9.14
CE301	STRUCTURAL DESIGN I	4.29	4.29	4.29	4.29	4.29	4.17	4.9	4.3	-3.41	-2.91	-2.15	-2.78	-3.64	-2.04	-5.04	1.52
CE304	ENVIRONMENTAL ENGINEERING	4	4	4	4	4	4	4	4	1.18	0.97	1.28	4.51	13.22	5.31	16.33	-23.86
CE305	TRANSPORTATION ENGINEERING	4.19	4.16	4.14	4.3	4.7	4.3	4.9	3	-10.89	-10.92	-10.46	-10.80	-10.63	-9.14	-13.58	-6.35
CE211	STRUCTURAL ENGINEERING LABORATORY I	3.69	3.67	3.66	3.67	3.71	3.71	3.64	3.69	6.49	6.80	6.66	6.45	6.00	-7.27	4.46	9.39
CE307	ENVIRONMENTAL ENGINEERING LABORATORY	4.41	4.4	4.36	4.38	4.4	4.38	4.4	4.31	-5.10	-5.34	-6.31	-8.61	-8.22	-6.69	-10.26	-5.08

