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

Ref.-CEE/2023-24/ FA |

Date:12/12/2023

Feedback Analysis and Action Taken Report (FAATR)

Department: Civil Engineering
Batch: MO23
Semesters Covered: III, V, and VII
Academic Year: 2023–24

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 (≥ +10%)

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

CAN-Corrective Action Needed (≤ –20%)

N- Neutral (between –20% and 0%)

Sem	Subject Code	Subject Name	Q1	Q2	Q3	Q4	Q5	Q6	Q7	Q8
III (Batch 2022-26)	MT131	UHV2: UNDERSTANDING HARMONY	S	S	S	S	S	S	S	S
	CE201	SOLID MECHANICS	N	N	N	N	N	N	N	N
	CE202	STRUCTURAL ANALYSIS I	S	S	S	S	S	S	S	S
	CE203	FLUID MECHANICS	S	S	S	S	S	N	S	N
	CE204	BUILDING MATERIALS AND CONSTRUCTION	S	S	S	S	S	S	S	S
	CE205	CIVIL ENGINEERING DRAWING	N	N	N	N	N	N	S	N
	CE206	FLUID MECHANICS LABORATORY	S	S	S	S	S	S	S	S
V (Batch 2021-25)	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
	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 2020-24)	CE302	Water Resource Engineering	N	S	S	S	N	N	S	N
	CE420	Air Pollution and Control (APC)	S	N	N	N	N	S	S	S
	CE421	Solid Waste Management (SWM)	S	S	N	N	N	S	N	S
	CE414	Pre-stressed Concrete (PSC)	S	S	S	S	S	S	N	S
	CE306	Water Resources Engineering Laboratory (WRE Lab)	N	N	N	N	N	N	N	N

Subject-wise Analysis (Clause 2.4)

Subject Code	Subject Name	Consistent Deviation	Nature	Action Category
CE201	Solid Mechanics	Across Q1–Q8: all negative	Consistent	CAN
CE419	Advanced Geotech Engg	All Qs – High Negative	Consistent	CAN
CE304	Environmental Engineering	Q3–Q8 mostly negative	Inconsistent	N
CE305	Transportation Engineering	Q1–Q8 Positive	Positive	HS
CE312	Transportation Engg Lab	Q1–Q8 Positive	Positive	HS

Batch-wise Performance (Clause 2.5)

1. III Sem (2022–26): Avg ~4.37 - No Batch-level Issue
2. V Sem (2021–25): Avg ~3.64 - No Batch-level Issue
3. VII Sem (2020–24): Avg ~4.67 - No Batch-level Issue

Student Comment Analysis (Clause 2.6)

No Major Comments

Summary		
Batch	**Strength Highlight**	**Primary Concern**
2022–2026 (III Sem)	Structural Analysis I & UHV	Solid Mechanics & Drawing
2021–2025 (V Sem)	Transportation Theory & Lab	Geotech & Environmental Engg
2020–2024 (VII Sem)	PSC & SWM	WRE Lab scheduling

Corrective Actions

Negative Deviations:

1) Batch: 2022–2026 (III Semester)
   a) Subject: CE201 – Solid Mechanics

   Deviation: Consistently negative across Q1–Q8 (Max: –14.58%)

   Clause Referenced: 3.1 – For Negative Deviations

   Actions:

   The faculty has been advised to Incorporate 15-minute problem-solving sessions at the end of each class, Include more numerical examples

2) Batch: 2021–2025 (V Semester)
   a) Subject: CE419 – Advanced Geotechnical Engineering
   Deviation: Highly Negative (up to –21.42%) - *Corrective Action Needed (CAN)* status
   Clause Referenced: *3.1, 3.4 – Subject with Highest Deviation*
   Actions:
   Reorganizing lesson plan with dedicated sessions for numerical problem-solving. more step-wise teaching, inclusion of solved numerical worksheets, and structured notes.
   b) Subject: CE304 – Environmental Engineering
   Deviation: Moderately Negative (–11.17% max)
   Actions:
   Reorganizing lesson plan, integrate case studies, and visual content.

3) Batch: 2020–2024 (VII Semester)
   a) Subject: CE306 – Water Resources Engg. Lab
   Deviation: Minor Negative (–7.03% max)
   Actions:
   Faculty instructed to give pre-lab briefings for better understanding.

Clause Referenced: 3.2 – *For Positive Deviations*

Faculty acknowledged for excellent teaching practices in Department Meeting

a) Subject: CE305 – Transportation Engineering (V Sem)

Deviation: Highly Positive (Max +13.89%)

b) Subject: CE414 – Prestressed Concrete (VII Sem)

Deviation: Max +7.11% (approaching HS)

12/12/23

Dr. Bindhu Lal-Chairman
(Chairman)

12/12/2023

Dr. R Naresh
(Member)

12/12/23

Dr. Mani Mohan
(Member)

12/12/23

Dr. Ashish Kr. Patnaik
(Member)

12/12/23

Dr. Puja Rajhans
(Member)

DECLARATION

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

1. Course feedback for the M023 semester of the academic year 2023-24 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: 12/12/23

Place: BIT Mesra

Signature: B 12/12/23

Name: Prof. Bindhu Lal

Name of the Department: Civil & Envt.al Eng.

Annexure I: Analysis

MO 23 - III Semester									BATCH: 2022-2026							
		FEEDBACK							% Deviation							
Subject Code	Subject Name	Q1	Q2	Q3	Q4	Q5	Q6	Q7	Q8	Q1	Q2	Q3	Q4	Q5	Q6	Q7	Q8
MT131	UHV2: UNDERSTANDING HARMONY	4.50	4.50	4.50	4.50	4.50	4.50	4.50	4.50	2.17	2.51	2.77	2.67	3.52	3.82	2.67	4.62
CE201	SOLID MECHANICS	3.97	3.97	3.74	3.86	3.80	3.84	3.80	3.76	-9.86	-9.57	-14.58	-11.93	-12.59	-11.40	-13.30	-12.59
CE202	STRUCTURAL ANALYSIS I	4.44	4.46	4.46	4.49	4.43	4.49	4.49	4.43	0.81	1.59	1.86	2.44	1.91	3.59	2.44	2.99
CE203	FLUID MECHANICS	4.43	4.40	4.53	4.49	4.36	4.20	4.43	4.24	0.58	0.23	3.46	2.44	0.30	-3.10	1.08	-1.43
CE204	BUILDING MATERIALS AND CONSTRUCTION	4.67	4.61	4.63	4.57	4.56	4.54	4.56	4.57	6.03	5.01	5.74	4.27	4.90	4.75	4.04	6.24
CE205	CIVIL ENGINEERING DRAWING	4.26	4.23	4.23	4.23	4.24	4.27	4.39	4.14	-3.28	-3.64	-3.39	-3.49	-2.46	-1.48	0.16	-3.75
CE206	FLUID MECHANICS LABORATORY	4.56	4.56	4.56	4.54	4.54	4.50	4.51	4.47	3.54	3.87	4.14	3.59	4.44	3.82	2.90	3.92
Average		4.40	4.39	4.38	4.38	4.35	4.33	4.38	4.30	4.37							

MO 23 - V Semester										BATCH: 2021-2025							
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	-17.76	-21.42	-18.20	-19.43	-18.97	-16.98	-14.96	-17.80
CE301	STRUCTURAL DESIGN I	3.90	3.79	3.74	3.79	3.81	3.76	3.66	3.71	5.16	3.41	1.98	3.52	6.09	4.05	0.72	3.38
CE304	ENVIRONMENTAL ENGINEERING	3.59	3.55	3.33	3.50	3.33	3.21	3.45	3.31	-3.20	-3.14	-9.20	-4.40	-7.27	-11.17	-5.06	-7.77
CE305	TRANSPORTATION ENGINEERING	4.02	4.16	4.14	4.05	4.09	4.09	3.95	3.98	8.39	13.51	12.88	10.62	13.89	13.18	8.70	10.90
CE211	STRUCTURAL ENGINEERING LABORATORY I	3.67	3.66	3.66	3.60	3.53	3.62	3.69	3.66	-1.04	-0.14	-0.20	-1.67	-1.71	0.17	1.55	1.99
CE307	ENVIRONMENTAL ENGINEERING LABORATORY	3.71	3.62	3.57	3.59	3.53	3.62	3.59	3.55	0.03	-1.23	-2.66	-1.95	-1.71	0.17	-1.20	-1.08
CE310	COMPUTER AIDED ANALYSIS AND DESIGN	3.71	3.66	3.81	3.72	3.55	3.66	3.64	3.57	0.03	-0.14	3.89	1.60	-1.15	1.28	0.17	-0.52

MO 23 - V Semester										BATCH: 2021-2025							
Subject Code	Subject Name	FEEDBACK								% Deviation							
		Q1	Q2	Q3	Q4	Q5	Q6	Q7	Q8	Q1	Q2	Q3	Q4	Q5	Q6	Q7	Q8
CE312	TRANSPORTATION ENGINEERING LABORATORY	4.02	4.00	4.09	4.09	3.98	3.95	4.00	3.98	8.39	9.14	11.52	11.71	10.82	9.30	10.08	10.90
Average		3.71	3.67	3.67	3.66	3.59	3.61	3.63	3.59	3.64							

MO 23 - VII Semester										BATCH: 2020-2024							
Subject Code	Subject Name	FEEDBACK								% Deviation							
		Q1	Q2	Q3	Q4	Q5	Q6	Q7	Q8	Q1	Q2	Q3	Q4	Q5	Q6	Q7	Q8
CE302	Water Resources Engineering	4.72	4.83	4.72	4.77	4.62	4.55	4.74	4.62	-0.30	3.38	1.11	1.97	-0.17	-1.17	1.11	-0.82
CE420	Air Pollution and Control (APC)	4.77	4.57	4.64	4.57	4.51	4.62	4.81	4.74	0.76	-2.18	-0.60	-2.31	-2.55	0.35	2.60	1.76
CE421	Solid Waste Management (SWM)	4.74	4.68	4.64	4.64	4.55	4.68	4.66	4.72	0.13	0.17	-0.60	-0.81	-1.69	1.65	-0.60	1.33
CE414	Pre-stressed Concrete (PSC)	4.89	4.81	5.00	4.98	4.89	4.68	4.68	4.72	3.30	2.95	7.11	6.46	5.66	1.65	-0.17	1.33
CE306	Water Resources Engineering Laboratory (WRE Lab)	4.55	4.47	4.34	4.43	4.57	4.49	4.55	4.49	-3.89	-4.32	-7.03	-5.30	-1.25	-2.48	-2.94	-3.61
Average		4.73	4.67	4.67	4.68	4.63	4.60	4.69	4.66	4.67							