

DEPARTMENT OF CIVIL AND ENVIRONMENTAL ENGINEERING
BIRLA INSTITUTE OF TECHNOLOGY
MESRA, PATNA CAMPUS

Ref.: CEE_BITPATNA/2026-27/4

Date: 11/08/2026

Feedback Analysis and Action Taken Report

Department: Civil and Environmental Engineering

Batch: MO 2025

Semester Covered: III, V, and VII

Academic Year: 2025-2026

Overview:

Feedback Questions: 8

A	Q1. Content (breadth and depth), relevance and utility of the course
	Q2. Availability of the 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 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 2024-28)	CE 24201	Solid Mechanics	S	S	S	S	S	S	S	S
	CE 24202	Structural Analysis – I	S	S	S	S	S	S	S	S
	CE 24203	Fluid Mechanics	N	N	N	N	N	N	N	N
	CE 24204	Building Materials and Construction	N	N	N	N	N	N	N	N
	CE 24205	Civil Engineering Drawing	S	S	S	S	S	S	S	S
	CE 24206	Fluid Mechanics Laboratory	N	N	N	N	N	N	N	N
V (Batch 2023-27)	CE 413	Concrete Technology	S	S	S	S	S	S	S	S
	CE 305	Transportation Engineering	N	N	N	N	N	N	N	N
	CE 301	Structural Design – I	S	S	S	S	HS	S	S	S
	CE 304	Environmental Engineering	N	N	N	N	N	N	N	N
	CE 312	Transportation Engineering Laboratory	N	N	N	N	N	N	N	N
	CE 307	Environmental Engineering Laboratory	N	N	N	N	N	N	S	S

	CE 310	Computer-Aided Analysis and Design	S	S	S	S	S	S	S	S
	CE 211	Structural Engineering Laboratory – I	S	S	S	S	S	S	S	S
VII (Batch 2022-26)	CE420	Air Pollution Control	S	N	S	N	N	N	N	S
	CE419	Advanced Geotechnical Engineering	S	S	N	N	N	S	S	S
	CE402	Remote Sensing and GIS Laboratory	N	N	S	S	HS	S	N	N
	CE213	Specification Estimation and Costing	N	S	N	S	N	N	S	N

Subject Wise Analysis (Clause 2.4):

Sem	Subject Code	Subject Name	Consistent Deviations	Nature	Action Category
III (Batch 2024-28)	CE 24201	Solid Mechanics	Across Q1 - Q8 all positive	Consistent	S
	CE 24202	Structural Analysis – I	Across Q1 - Q8 all positive	Consistent	S
	CE 24203	Fluid Mechanics	Across Q1 - Q8 all negative	Consistent	N
	CE 24204	Building Materials and Construction	Across Q1 - Q8 all negative	Consistent	N
	CE 24205	Civil Engineering Drawing	Across Q1 - Q8 all positive	Consistent	S
	CE 24206	Fluid Mechanics Laboratory	Across Q1 - Q8 all negative	Consistent	N
V (Batch 2023-27)	CE 413	Concrete Technology	Across Q1 - Q8 all positive	Consistent	S
	CE 305	Transportation Engineering	Across Q1 - Q8 all negative	Consistent	N

	CE 301	Structural Design – I	Across Q1 - Q8 all positive	Inconsistent	S / HS
	CE 304	Environmental Engineering	Across Q1 - Q8 all negative	Consistent	N
	CE 312	Transportation Engineering Laboratory	Across Q1 - Q8 all negative	Consistent	N
	CE 307	Environmental Engineering Laboratory	Negative then positive	Increasing	N/S
	CE 310	Computer-Aided Analysis and Design	Across Q1 - Q8 all positive	Consistent	S
	CE 211	Structural Engineering Laboratory – I	Across Q1 - Q8 all positive	Consistent	S
VII (Batch 2022-26)	CE420	Air Pollution Control	Few Positive	Inconsistent	N/S
	CE419	Advanced Geotechnical Engineering	Few Negative	Inconsistent	S/N
	CE402	Remote Sensing and GIS Laboratory	Few Negative	Inconsistent	N/S/HS
	CE213	Specification Estimation and Costing	Few Positive	Inconsistent	N/S

Batch Wise Performance (Clause 2.5):

1. III Sem (2024 – 2028): Avg 4.11 (approx.) – No Batch-level Issue
2. V Sem (2023 – 2027): Avg 4.05 (approx.) – No Batch-level Issue
3. VII Sem (2022 – 2026): Avg 3.5 (approx.) – No Batch-level Issue

Students Comments Analysis (Clause 2.6):

No Major Comments

Action Plan Implementation (Clause 3):

For Negative Deviations (Clause 3.1):

1. Batch: 2024 – 2028 (III Sem)

Subject Name with Code: CE 24203 Fluid Mechanics

Deviation: Consistently Negative across Q1 to Q8 (Max: -8.31%)

Actions taken: The faculty has been advised to incorporate problem solving sessions at the end of each class.

Subject Name with Code: CE 24204 Building Materials and Construction

Deviation: Consistently Negative across Q1 to Q8 (Max: -14.84%)

Actions taken: Reorganizing lesson plan, integrating case studies, and visual contents.

2. Batch: 2023 – 2027 (V Sem)

Subject Name with Code: CE 305 Transportation Engineering

Deviation: Consistently Negative across Q1 to Q8 (Max: -16.87%)

Actions taken: The faculty has been advised to incorporate problem solving sessions at the end of each class.

Subject Name with Code: CE 312 Transportation Engineering Laboratory

Deviation: Moderately Negative across Q1 to Q8 (Max: -9.29%)

Actions taken: More focused interaction with individuals is advised from concerned faculty.

3. Batch: 2022 – 2026 (VII Sem)

Subject Name with Code: CE 420 Air Pollution Control

Deviation: Consistently Negative (Max: -12.8%)

Actions taken: More focused interaction with individuals is advised from concerned faculty.

For Positive Deviations (Clause 3.2):

Faculties were acknowledged for excellent teaching practices in Departmental Meeting.

1. Batch: 2024 – 2028 (III Sem)

Subject Name with Code: CE24201 Solid Mechanics

Deviation: Positive (4.14%)

Subject Name with Code: CE24202 Structural Analysis - I

Deviation: Positive (8.56%)

Subject Name with Code: CE24205 Civil Engineering Drawing

Deviation: Positive (8.56%)

2. Batch: 2023 – 2027 (V Sem)

Subject Name with Code: CE 413 Concrete Technology

Deviation: Positive (6.39%)

Subject Name with Code: CE 301 Structural Design - I

Deviation: Positive (10.22%)

Subject Name with Code: CE 310 Computer Aided Analysis and Design

Deviation: Positive (6.85%)

Subject Name with Code: CE 211 Structural Engineering Laboratory

Deviation: Positive (8.44%)

3. Batch: 2022 – 2026 (VII Sem)

Subject Name with Code: CE402 Remote Sensing and GIS Laboratory

Deviation: Positive (14.33%)


11/08/2026

Dr. Angshuman Mandal
(Chairman)


11/08/2026

Dr. Anish (Member)


11/08/2026

Dr. Bandana Mahto
(Member)


11/08/2026

Dr. Kumari Sweta
(Member)

DECLARATION

I, Dr. Angshuman Mandal ^{I/c} Head of the Department of Civil and Environmental Engg. hereby declare that:

1. Course feedback for the MO 25 semester of the academic year 2025-26 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: 11/08/2026

Place: BIT Patna

Signature: Angshuman Mandal ^{11/08/2026}

Name: Dr. Angshuman Mandal

Name of the Department: Civil and Environmental Engineering.

MO 25 - III Semester										BATCH: 2024-2028/ Additional any batch applicable to these subjects										
Subject Code	Subject Name	FEEDBACK								% Deviation										
		Q1	Q2	Q3	Q4	Q5	Q6	Q7	Q8	Q1	Q2	Q3	Q4	Q5	Q6	Q7	Q8			
CE 24201	Solid Mechanics	4.22	4.11	4.17	4.17	4.17	4.22	4.28	4.17	1.69	0.49	0.72	1.46	2.21	3.18	4.14	1.71			
CE 24202	Structural Analysis – I	4.38	4.38	4.44	4.44	4.38	4.44	4.44	4.44	5.54	7.09	7.25	8.03	7.35	8.56	8.03	8.29			
CE 24203	Fluid Mechanics	4	3.81	3.94	3.81	3.81	3.75	3.94	3.81	-3.61	-6.85	-4.83	-7.3	-6.62	-8.31	-4.14	-7.07			
CE 24204	Building Materials and Construction	3.81	3.88	3.69	3.88	3.81	3.81	3.5	3.75	-8.19	-5.13	-10.87	-5.6	-6.62	-6.85	-14.84	-8.54			
CE 24205	Civil Engineering Drawing	4.38	4.38	4.44	4.38	4.38	4.44	4.44	4.44	5.54	7.09	7.25	6.57	7.35	8.56	8.03	8.29			
CE 24206	Fluid Mechanics Laboratory	4.13	4	4.13	4	3.94	3.88	4.06	4	-0.48	-2.2	-0.24	-2.68	-3.43	-5.13	-1.22	-2.44			
Average		4.15	4.09	4.14	4.11	4.08	4.09	4.11	4.1	4.11										

MO 25 - V Semester													BATCH: 2023-2027/ Additional any batch applicable to these subjects												
Subject Code	Subject Name	FEEDBACK								% Deviation															
		Q1	Q2	Q3	Q4	Q5	Q6	Q7	Q8	Q1	Q2	Q3	Q4	Q5	Q6	Q7	Q8								
CE 413	Concrete Technology	4.22	4.22	4.33	4.28	4.28	4.28	4.22	4.22	3.18	4.2	6.39	6.2	4.14	6.2	4.98	6.3								
CE 305	Transportation Engineering	3.71	3.65	3.47	3.35	3.65	3.59	3.53	3.53	-9.29	-9.88	-14.74	-16.87	-11.19	-10.92	-12.19	-11.08								
CE 301	Structural Design – I	4.32	4.32	4.42	4.26	4.53	4.21	4.26	4.16	5.62	6.67	8.6	5.71	10.22	4.47	5.97	4.79								
CE 304	Environmental Engineering	4	3.9	3.9	3.95	4	3.95	3.9	3.85	-2.2	-3.7	-4.18	-1.99	-2.68	-1.99	-2.99	-3.02								
CE 312	Transportation Engineering Laboratory	3.71	3.76	3.88	3.82	3.76	3.82	3.76	3.82	-9.29	-7.16	-4.67	-5.21	-8.52	-5.21	-6.47	-3.78								
CE 307	Environmental Engineering Laboratory	4.05	4	3.95	4	4.11	3.95	4.05	4	-0.98	-1.23	-2.95	-0.74	0	-1.99	0.75	0.76								
CE 310	Computer-Aided Analysis and Design	4.37	4.21	4.32	4.21	4.16	4.21	4.26	4	6.85	3.95	6.14	4.47	1.22	4.47	5.97	0.76								
CE 211	Structural Engineering Laboratory – I	4.37	4.32	4.32	4.37	4.42	4.21	4.21	4.21	6.85	6.67	6.14	8.44	7.54	4.47	4.73	6.05								
Average		4.09	4.05	4.07	4.03	4.11	4.03	4.02	3.97	4.05															

MO 25 - VII 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			
CE420	Air Pollution Control	3.71	3.43	3.43	3.43	2.86	3.29	3.43	3.57	2.49	-6.54	2.08	-4.99	-12.8	-2.95	-3.38	1.42			
CE419	Advanced Geotechnical Engineering	3.75	4	3.25	3.5	3.25	3.5	3.75	3.75	3.59	8.99	-3.27	-3.05	-0.91	3.24	5.63	6.53			
CE402	Remote Sensing and GIS Laboratory	3.5	3.5	3.5	3.75	3.75	3.5	3.25	3.25	-3.31	-4.63	4.17	3.88	14.33	3.24	-8.45	-7.67			
CE213	Specification Estimation and Costing	3.5	3.75	3.25	3.75	3.25	3.25	3.75	3.5	-3.31	2.18	-3.27	3.88	-0.91	-4.13	5.63	-0.57			
Average		3.62	3.67	3.36	3.61	3.28	3.39	3.55	3.52	3.5										