Yashoda Shikshan Prasarak Mandal's
YASHODA TECHNICAL CAMPUS, SATARA
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Affiliated to DBATU Lonere,

Department of Civil Engineering

CA-II (PPT Presentation)		
Class: Third Year	**A.Y. 2025-26**	**Date of Submission: 11/04/2026**
Subject: BTCVPE604F Structural Audit		**Maximum Marks: 25**

Instruction: 1) Solve the following question
2) Prepare proper schematic model of steel reinforcement.
3) Assume the suitable data wherever necessary.

Activity Name		PPT Presentation	CO	Unit No.	BL	Marks
Q.1	**[A]**	Prepare PPT Presentation on two Non-destructive Methods, along with its working principles, advantages and dis-advantages. Rules for PPT 1. Topic – Minimum 2 NDT Tests should be presented. 2. Slides & Time – Minimum 10 slides and 10 min 3. PPT – Usage of attractive slides, animation and photos carried extra weightage. 4. First slide must contain Students name, roll no, PRN, Subject name, Faculty name and date of presentation	**604_3**	**3**	**L3**	**[25]**

Mr. A. S. Shah
Subject Teacher

Dr. A. M. Zende
HOD
H.O.D.
Civil Engineering
YSPM'S Yashoda Technical Campus, Satara

YSPM'S Yashoda Technical Campus ★ Satara ★ Faculty of Engg.(Civil)

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Innovative Teaching and Learning Activity – PPT Presentation on Surveying Modules

Course: Structural Audit (**BTCVPE604F**) **Course Teacher: Mr. A. S. Shah**

AY: 2025-26 (Even) **Assessment For: CAI1 Tool**

1. Objectives of Innovation:

- To improve conceptual clarity using visual aids.
- To enhance student participation and interaction.
- To shift from traditional lecture methods to more interactive learning.

2. Details of Innovation Implemented:

- Teaching Method: Module-wise Presentations
- Topics Covered:
    1. Different NDT Methods
    2. Evaluation of RC and Steel Structures
    3. Working of NDT Methods
- Mode of Delivery: PPT Presentation with Visual Aids, Diagrams,
- Tools Used: PowerPoint, Chalk and Talk using smart board.
- Duration: One presentation on one topic as per allotment notice. (Approx. 5 minutes each)

3. Outcomes Observed:

- Increased student engagement and curiosity.
- Improved understanding of field applications.
- Enhanced participation during Q&A sessions.
- Positive feedback from students.

4. POs Mapped in this activity:

PO1	PO5	PO8	PO11
Engineering Knowledge	Engineering Tool Usage	Individual and Team Work	Life Long Learning

5. Assessment Method:

- **Through Rubrics:**

PO	Assessment Focus	Excellent	Good	Average
PO1 Engineering Knowledge (5 Marks)	Application of engineering fundamentals	Applies mathematics, science, computing, and engineering knowledge accurately to solve complex problems (4-5 marks)	Applies engineering knowledge with minor errors (3-2 marks)	Applies basic concepts with limited correctness (0-1 marks)
PO5 Engineering Tool Usage (5 Marks)	Use of modern engineering tools	Selects and uses appropriate modern tools effectively (4-5 marks)	Uses modern tools with partial understanding (3-2 marks)	Uses basic tools with limited skill (0-1 marks)
PO8 Individual and Team Work (5 Marks)	Team participation	Works effectively as individual and team member or leader (4-5 marks)	Participates satisfactorily in team work (3-2 marks)	Limited participation in team (0-1 marks)
PO11 Life Long Learning (5 Marks)	Continuous learning ability	Actively engages in independent and continuous learning (4-5 marks)	Recognizes need for continuous learning (3-2 marks)	Limited motivation for learning (0-1 marks)

6. Evidence (Attached):

- Photos of presentations.
- Samples of PPT slides.

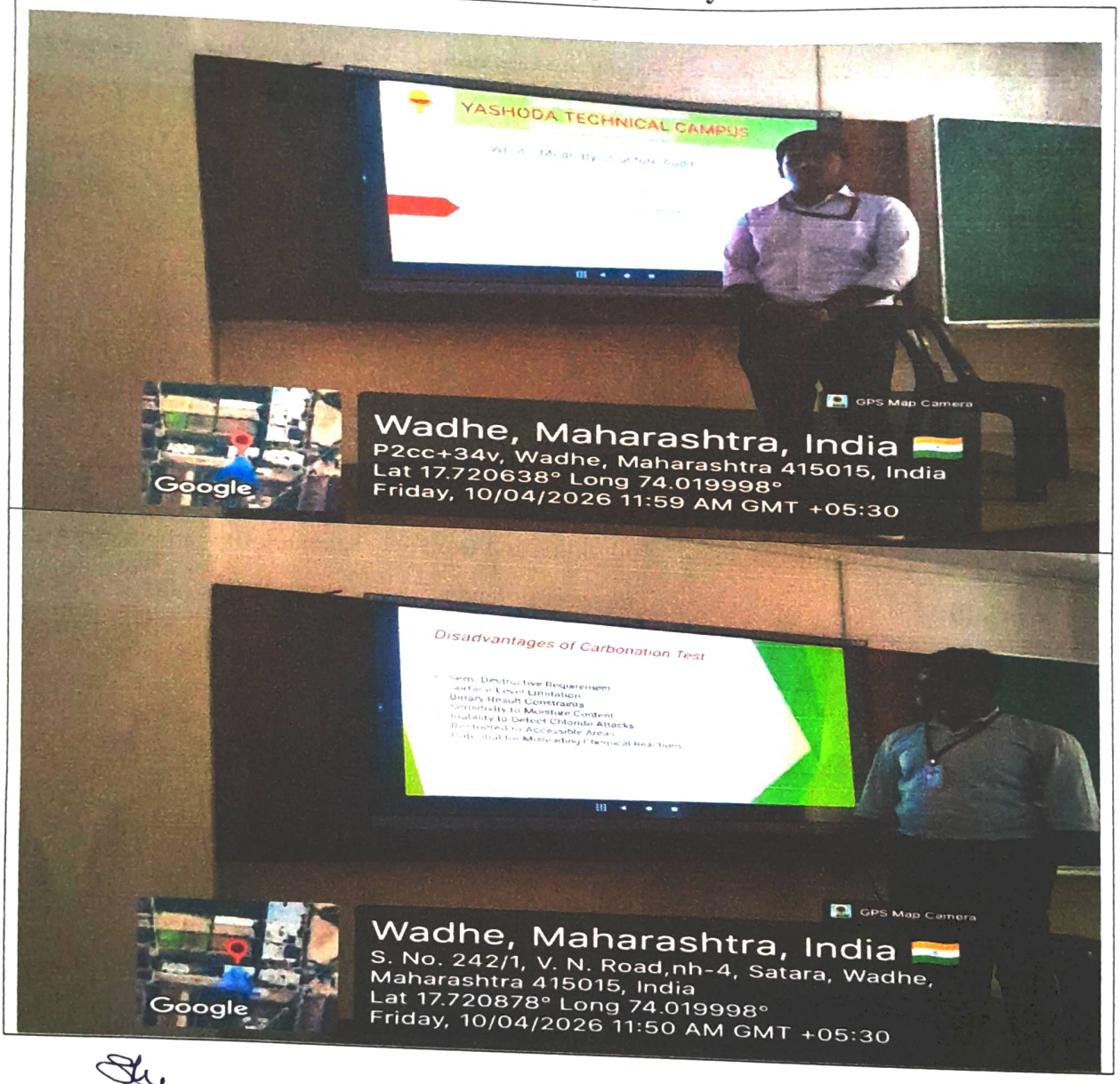
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7. Conclusion:

The use of modular presentations as an innovative teaching-learning method for the Surveying Course resulted in improved student interaction, better clarity of concepts, and active classroom participation.

Photos during Activity



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CA-III (Charts Making)

Class: Third Year **A.Y. 2025-26** **Date of Submission: 08/05/2026**

Subject: BTCVPE604F Structural Audit **Maximum Marks: 25**

Instruction: 1) Prepare Chart on Structural Audit and report.
2) Figures to the right indicate the marks.
3) Assume the suitable data wherever necessary.

Activity Name		Charts Making	CO	Unit No.	BL	Marks
Q.1	[A]	Prepare Chart for Structural Audit which address - Structural Audit Steps, Audit Report. Rules for Chart 1. Chart – Half imperial 2. Content – Use of Photos, Images and Text is allowed 3. Attractiveness – Attractive Chart carried extra weightage. 4. Chart must contain Students name, roll no, PRN, Subject name.	601_1& 5	1 & 5	L3	[25]

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Innovative Teaching and Learning Activity – Charts Making

Topic - Structural Audit

Course: Structural Audit **(BTCVPE604F)** **Course Teacher: Mr. A. S. Shah**

AY: 2025-26 (Even) **Assessment For: CAII1 Tool**

1. Objectives of the Activity:

- To enhance conceptual understanding through visual learning.
- To encourage creativity and subject visualization.
- To improve presentation and communication skills of students.
- To promote active learning beyond classroom lectures.

2. Details of Activity Implemented:

Activity Name: Chart Making

Nature of Activity: Individual

Topics: Structural Audit

Mode: Hand Written chart with attractive use of Photos, Images with oral presentation

Duration: As per schedule

3. POs Mapped in this activity:

PO2	PO3	PO5	PO8
Problem Analysis	Design and Development of Solutions	Engineering Tool Usage	Individual and Team Work

4. Assessment Method:

Through Rubrics:

PO	Assessment Focus	Excellent	Good	Average
PO2 Problem Analysis (5 Marks)	Problem identification and analysis	Clearly identifies, analyzes problems, and supports conclusions using literature	Identifies and analyzes problems with partial support (3-2 marks)	Identifies problems with weak analysis (0-1 marks)

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		(4-5 marks)		
PO3 Design and Development of Solutions (5 Marks)	Design of engineering solutions	Designs effective solutions considering safety, cost, and environment (4-5 marks)	Designs workable solutions with limited consideration of constraints (3-2 marks)	Proposes basic solutions with minimal feasibility (0-1 marks)
PO5 Engineering Tool Usage (5 Marks)	Use of modern engineering tools	Selects and uses appropriate modern tools effectively (4-5 marks)	Uses modern tools with partial understanding (3-2 marks)	Uses basic tools with limited skill (0-1 marks)
PO8 Individual and Team Work (5 Marks)	Team participation	Works effectively as individual and team member or leader (4-5 marks)	Participates satisfactorily in team work (3-2 marks)	Limited participation in team (0-1 marks)

5. Outcomes Observed:

- Improved conceptual clarity among students.
- Enhanced creativity and subject interest.
- Better communication and presentation skills.
- Active student participation during Q&A.

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6. Evidence:

- Photographs of chart display.
- Samples of student charts.

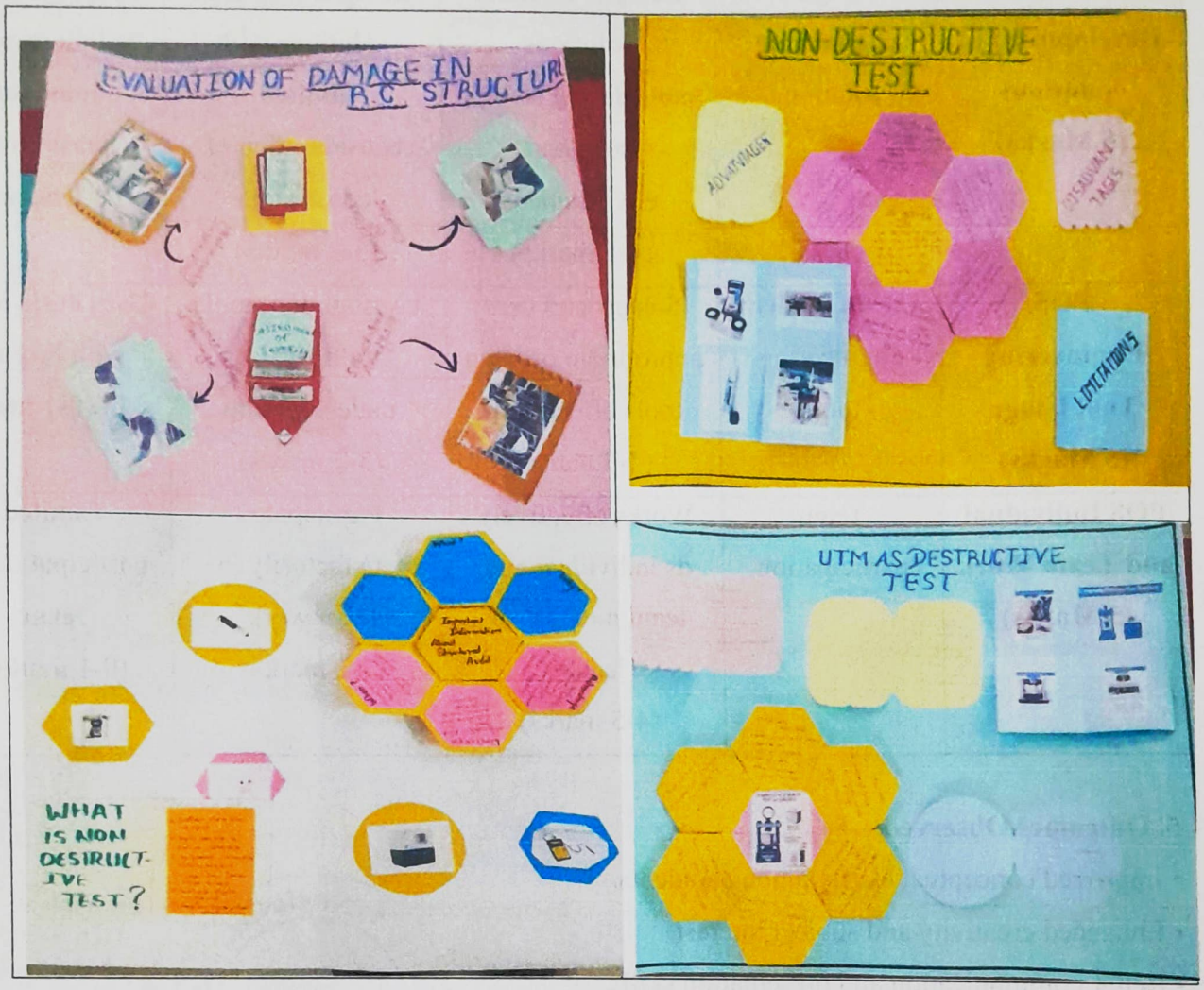
7. Conclusion:

The Chart Making Activity under CA-III proved to be an effective innovative teaching-learning method. It enhanced students' understanding of NDT concepts through visual representation and improved their communication skills.

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