



RAMCO INSTITUTE OF TECHNOLOGY

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NBA Accredited UG Programs: CSE, EEE, ECE and MECH

Department of Civil Engineering
Academic Year 2022– 2023 (Even Semester)

Degree, Semester & Branch: IV Semester B.E. Civil Engineering

Course Code & Title: CE3403 – Concrete Technology

Name of the Faculty member (s): Dr.G.Karthikeyan

Innovative Practice Description

- **Unit / Topic:** Unit I / Tests on Cement & Concrete
- **Course Outcome:** CO1
- **Topic Learning Outcome:** TLO2
- **Activity Chosen:** Experimental learning
- **Justification:**

By engaging students in hands-on experiences and reflection, they are better able to connect theories and knowledge learned in the classroom to real-world situations. Demonstrated to the students about to check the quality of cement for finding the setting time of cement using Vicat apparatus.

- **Time Allotted for the Activity:** 60 minutes

Details of the Implementation:

Dr.G.Karthikeyan, AP(SG)/Civil delivered his speech on the topic “Tests on cement and Concrete” in the Construction materials laboratory. Also explained about field and laboratory testing for assess the quality of cement. Mr.J.Nagaraj, LT/Civil demonstrated the setting time of test.

CO – PO / PSO mapping:

CO	PO1	PO2	PO11	PSO1	PSO3
CO1	3	2	2	1	1

(1 – Low 2 – Moderate 3 – High)

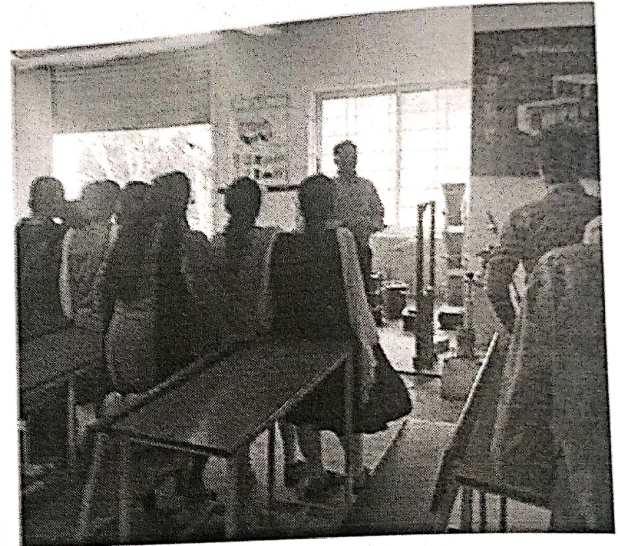
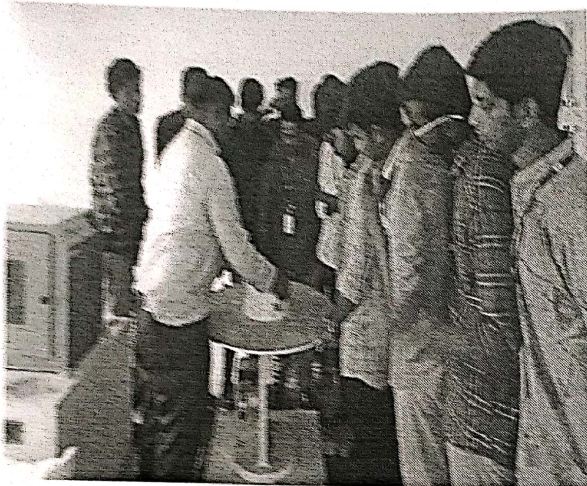
PO / PSO mapped:

Innovative practice	PO1	PO2	PSO1	PSO3
Justification for correlation	Apply fundamental	Using the principles of	Present the data related to	Provide sustainable



	knowledge in construction materials	Engineering mathematics, students will be able to analyze the properties of cement	Quality control	solutions
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• Images / Screenshot of the practice:



• Reflective Critique:

❖ *Feedback of practice from students and other stakeholders:*

The students felt easy to understand, and recollect the concepts involved in the given topic which will make them interest to study this subject and perform well in the continuous assessment test.

Benefit of the practice: (E.g.: Outcome attainment would have increased due to innovative practice over conventional practice)

- Experimental learning is more effective to understand the subject easily.
- Students can refer the manual whenever they interested to learn the topic.

❖ *Challenges faced in implementation:*

More no. of students are unable interact with the expert during the session due to time restriction.

References:

- ❖ IS10262-2009 Recommended Guidelines for Concrete Mix Design, Bureau of Indian Standards, New Delhi, 1998.
- ❖ Santhakumar. A.R., "Concrete Technology", Oxford University Press India, 2006.

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Signature of Faculty Member

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HOD