



RAMCO INSTITUTE OF TECHNOLOGY

Approved by AICTE, New Delhi & Affiliated to Anna University
Accredited by NAAC & An ISO 9001:2015 Certified Institution
NBA Accredited UG Programs: CSE, EEE, ECE and MECH

Department of Civil Engineering

Academic Year 2021 – 2022 (Odd Semester)

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

Course Code & Title: CE8491 – Soil Mechanics

Name of the Faculty member (s): Mrs.D.Darling Helen Lydia

Innovative Practice Description

- **Unit / Topic:** Unit I / Index Properties
- **Course Outcome:** CO1
- **Topic Learning Outcome:** TLO2
- **Activity Chosen:** Virtual Laboratory
- **Justification:**

Physical properties of soil which are useful to identify and differentiate soils from one another are known as 'Index Properties of Soil'. Since there are many properties are under this topic, for better understanding I have chosen Virtual lab for the above topic.

Time Allotted for the Activity: 40 Minutes

- **Details of the Implementation:**

The Virtual lab is a very commonly used classroom assessment technique. It really does take about 30 minutes for listening and, while usually take 10 minutes for problem solving at the end of class. I asked all students to listen the virtual lab and made them to solve problems for the questions.

CO – PO / PSO mapping:

CO	PO1	PO2	PO6	PO7	PO12
CO1	3	3	2	1	1

(1 – Low 2 – Moderate 3 – High)

- **PO / PSO mapped:**

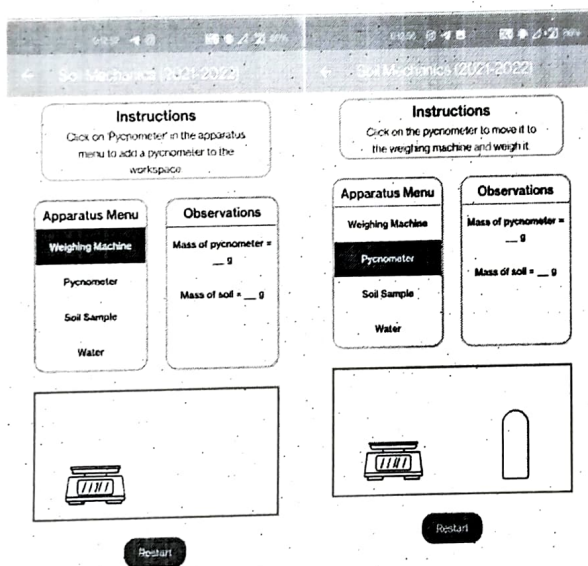
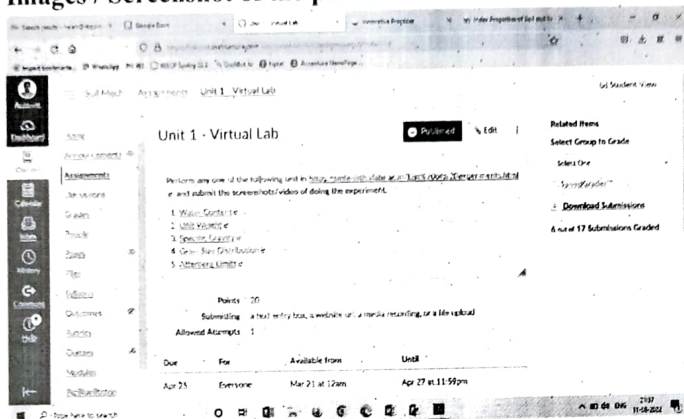
Innovative practice	PO1	PO2	PO6	PO7	PO12
	3	3	2	1	1
Justification for correlation	Apply the engineering fundamentals to find the index properties of soil	Identify, formulate and analyze index properties using first principles of mathematics and engineering sciences.	Apply reasoning by the knowledge to assess formation of soil, its types and the consequent responsibilities	Understand the impact of the index properties in societal and environmental contexts	To engage in independent and life-long learning in the broadest context of technological change.



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• Images / Screenshot of the practice:



Reflective Critique:

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

Oral feedback was received from students and most of them conveyed that they it gives the feel like doing in laboratory.

❖ *Benefit of the practice:*

This practice certainly would develop strong basic knowledge. They can use this virtual laboratory from anywhere.

References:

- ❖ <https://www.vlab.co.in/>

Signature of Faculty Member

Form No. 10c

HOD/Incharge

Rev. No, 1

Effective Date:02.08.2021