



RAMCO INSTITUTE OF TECHNOLOGY

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Department of Civil Engineering

Academic Year 2022– 2023 (Even Semester)

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

Course Code & Title: CE8603 & Irrigation Engineering

Name of the Faculty member (s): Mrs.A.Leema Margret

Innovative Practice Description

Unit / Topic: Unit IV / Canal regulatory works & Cross drainage works

- Course Outcome: CO4
- Topic Learning Outcome: TLO27, TLO28, TLO29
- Activity Chosen: Theory to Practice
- Justification:

Canal regulatory works and cross drainage works are taught as theory in their subjects, so students are taken to the Irrigation and Environmental Engineering Models Laboratory to see how the models are set up.

Time Allotted for the Activity: 15 minutes

- Details of the Implementation:

I took all the students to Irrigation and Environmental Engineering Models Laboratory and explained about the working of canal head regulator, canal cross regulator with their gate operation, components of Trapezoidal notch type canal drop and canal, drainage alignment of aqueduct and syphon aqueduct (cross drainage works). Through this activity all the students were clarifying doubts in working and components identification of canal regulatory works and cross drainage works.

- CO – PO / PSO mapping:

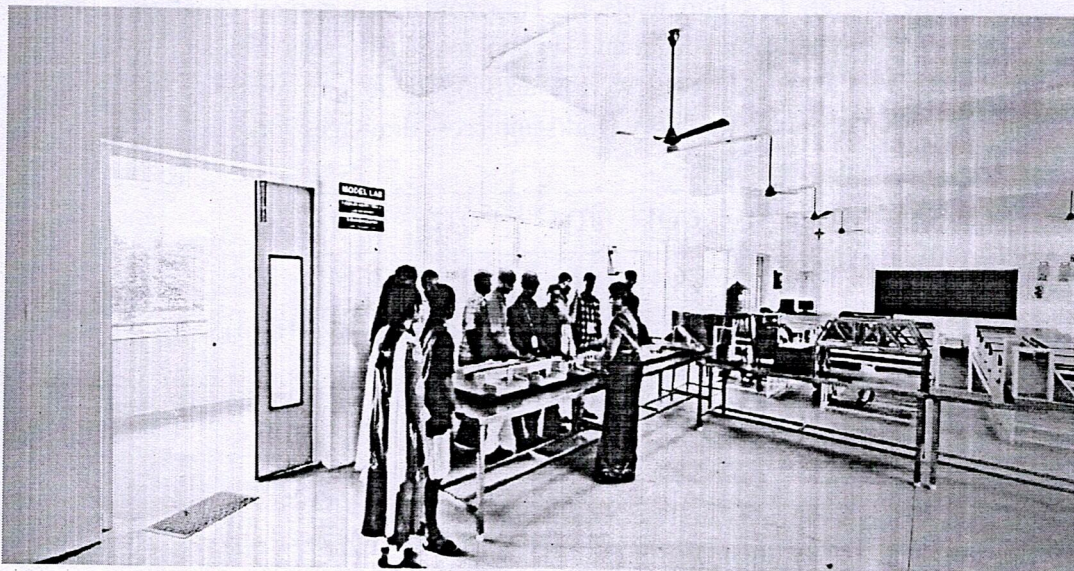
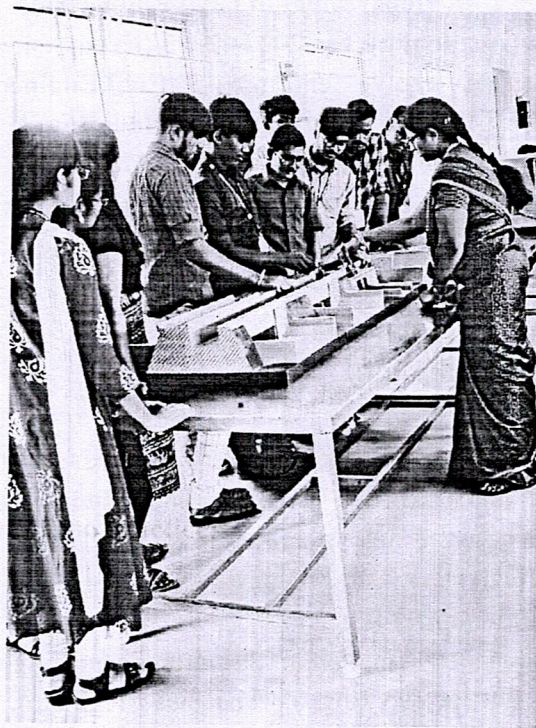
CO	PO6	PO12	PSO1
CO4	1	1	1

(1 – Low 2 – Moderate 3 – High)

- PO / PSO mapped:

Innovative practice	PO6	PO12	PSO1
Justification for correlation	Ability to describe the advantage of canal construction which provides economic, environmental and social benefits	Recognize the need and purpose of canal regulatory works and cross drainage works in the canal irrigation system	Present irrigation projects with engineering or hydraulic structures which convey and deliver water to areas on which crops are grown

- Images / Screenshot of the practice:



- Reflective Critique:

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

According to student feedback, this method of teaching helped them understand the topic more clearly and made it easier for them to remember and recollect the concepts.

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

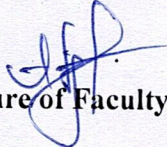
This activity will help the students in recognizing the gap between oral learning and practical experience.

- *Challenges faced in implementation:*

Nil

References:

1. Garg S. K., "Irrigation Engineering and Hydraulic structures", Khanna Publishers, 23rd Revised Edition, New Delhi, 2009.
2. Punmia B.C., et. al; Irrigation and water power Engineering, Laxmi Publications, 16th Edition, New Delhi, 2009


Signature of Faculty Member


HOD