



# 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 2024 – 2025 (Odd Semester)

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

Course Code & Title: CE3303 Water Supply and Wastewater Engineering

Name of the Faculty member (s): Mrs. C. Subha

### Innovative Practice Description

- **Unit / Topic:** Unit V- Sewage Treatment and Disposal
- **Course Outcome:** CO5
- **Topic Learning Outcome:** TLO16-21
- **Activity Chosen:** Visible Quiz
- **Justification:**

The topic of sewage treatment and disposal covers various unit operations and processes, their principles, functions, construction, working, merits, and demerits. The portions were revised by conducting a visible quiz.

- **Time Allotted for the Activity:** 20 Minutes
- **Details of the Implementation:**

The visible quiz is a common classroom assessment technique. The students were divided into four groups in the class. The visible quiz was prepared using a Microsoft PowerPoint presentation and was displayed in the classroom using an LCD projector. The groups were named A, B, C, and D. Opportunity was given starting from A team the first time, B team a second time, and so on. All the students participated with interest. Justification of answers was also discussed in the class.

**CO – PO / PSO mapping:**

CO	PO1	PO7	PSO3
CO5	3	2	1

- **PO / PSO mapped:**

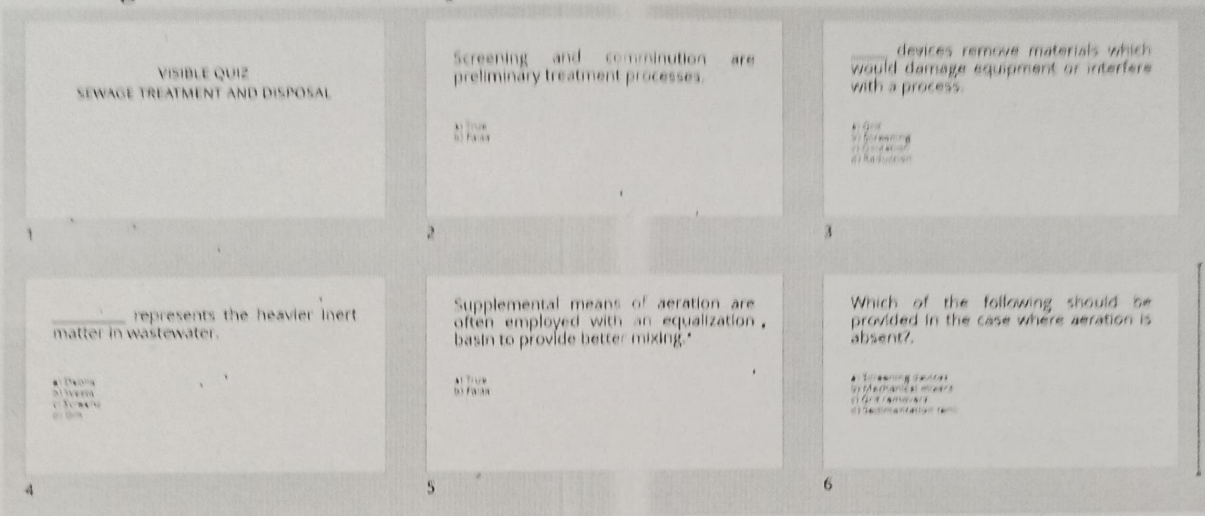
Innovative practice	PO1	PO7	PSO3
Justification for correlation	Apply basic math, science, and engineering to explain sewage treatment	Understanding the impact of engineering solutions on sustainable designs of sewage treatment	Selection and design of treatment units based on sewage characteristics.



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## • Images / Screenshot of the practice:



## Reflective Critique:

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

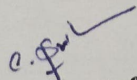
Students provided oral input, describing it as brainstorming.

### ❖ *The benefit of the practice:*

This practice certainly would develop strong basic knowledge and make students to have clarity of various topics

## References:

1. Garg, S.K., Environmental Engineering Vol.II, Khanna Publishers, New Delhi, 2015.
2. Punmia, B.C., Jain, A.K., and Jain.A.K., Environmental Engineering, Vol.II, Laxmi Publications, 2010.

  
Signature of Faculty Member

  
HOD