



RAMCO INSTITUTE OF TECHNOLOGY

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Department of Civil Engineering

Academic Year 2022 – 2023 (Odd Semester)

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

Course Code & Title: EN859.1 Solid Waste Management

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

Innovative Practice Description

- **Unit / Topic:** Unit IV / Processing of wastes - Case studies under Indian Conditions
- **Course Outcome:** CO4
- **Topic Learning Outcome:** TLO26
- **Activity Chosen:** Reflective journal
- **Justification:**

Reflective journaling is an important tool which assists students in identifying and processing learning in the Field practicum setting. Journals provide an avenue for students to document what they are learning and to become more intuitive in their practice. So through this practice, the initiatives in solid waste management regarding the functional element of waste processing which is currently following in various city's like Bangalore, Delhi, Mumbai can be studied:

- **Time Allotted for the Activity:** 15 Minutes
- **Details of the Implementation:**

In this methodology, students were clubbed into 4 per group. Then they were given a copy of journals related to case study of solid waste management among various cities in India. Every group were given time to read the journal and finally they were asked to submit a report on inferences from the journal.

- **CO – PO / PSO mapping:**

CO	PO6	PO7	PO10	PO12	PSO2	PSO3
CO4	2	2	1	1	2	2

(1 – Low 2 – Moderate 3 – High)


- **PO / PSO mapped:**

Innovative practice	PO6	PO7	PO10	PO12	PSO2	PSO3
Justification for correlation	Ability to describe suitable incineration technologies without affecting public	Demonstrate a proper method of composting gives a sustainable development in agricultural farming	Emerging technology of waste processing could be communicated using proper medium	Recognize the need and importance of solid waste processing techniques to plan an integrated solid waste management system	Use essential skills and suitable techniques for waste processing of solid waste	Method of composting gives a sustainable solutions to on farm agricultural practices



	health and environment			for a Smart City		
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• Images / Screenshot of the practice:

Innovative teaching method Execution	
	<p style="text-align: center;"><i>Innovative in Solid Waste Management</i> <u>CASE STUDY OF BENGALURU CITY</u></p> <ul style="list-style-type: none"> * Bangalore is most urbanised district of Karnataka with 90.34 percent of population residing in urban areas * This study gives the different phases of the process of MSW in Bangalore * Processing techniques following in Bangalore are: <ol style="list-style-type: none"> 1) Bio-methanisation 2) Composting (Bio-bin, ana digester) 3) Recycling 4) Co-solvent waste Management 5) Thermocatalytic waste processing

• Reflective Critique:

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

Oral feedback was received from students and most of them conveyed that they learnt various waste processing techniques recently following in Indian cities.

❖ *Benefit of the practice:*

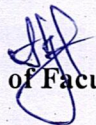
This practice certainly would develop waste processing methods and options suitable to adopt in their home as well as in their streets.


❖ *Challenges faced in implementation:*

Since they have first time gone through a journal, they faced difficulties in reading a full research paper.

References:

- ❖ www.sciencedirect.com


 Signature of Faculty Member


 HOD/Incharge