



Department of Civil Engineering

Academic Year 2023– 2024 (Odd Semester)

Degree, Semester & Branch: V semester B.E Civil Engineering

Course Code & Title: CCE331 & Air and Noise Pollution Control Engineering

Name of the Faculty member (s): Mr.V.Ragavan

Innovative Practice Description

Unit / Topic: Unit II / Effect of Air Pollution

- **Course Outcome:** CO2
- **Topic Learning Outcome:** TLO5
- **Activity Chosen:** Mind Map
- **Justification:**

Since Effect of Air Pollution is an important topic in concept wise and university exam point of view, I have chosen this topic and the reason for choosing mind map activity is while recollecting the concepts and hints learnt in the classroom, the students will be able to reproduce the concept in the exam.

- **Time Allotted for the Activity:** 10 minutes
- **Details of the Implementation:**

A mind map is a graphical way to represent ideas and concepts. It is a visual thinking tool that helps structuring information, helping students to better analyze, comprehend, synthesize, recall and generate new ideas. It is an easy way to brainstorm thoughts organically without worrying about order and structure. It allows the student to visually structure the ideas which is used to help with analysis and recall.

The students were randomly called and they were asked to write the topic they had learnt in the classroom as a pictorial representation in the white board.

Due to this activity, the students were able to recall the topics they have learnt in the classroom and they were also able to reproduce it in the exam. In the Internal Assessment Test-I most of the students attended the questions under this topic and scored good marks.

CO – PO / PSO mapping:

CO	PO1	PO2	PO6	PO7	PSO4
CO2	3	2	2	2	1

(1 – Low

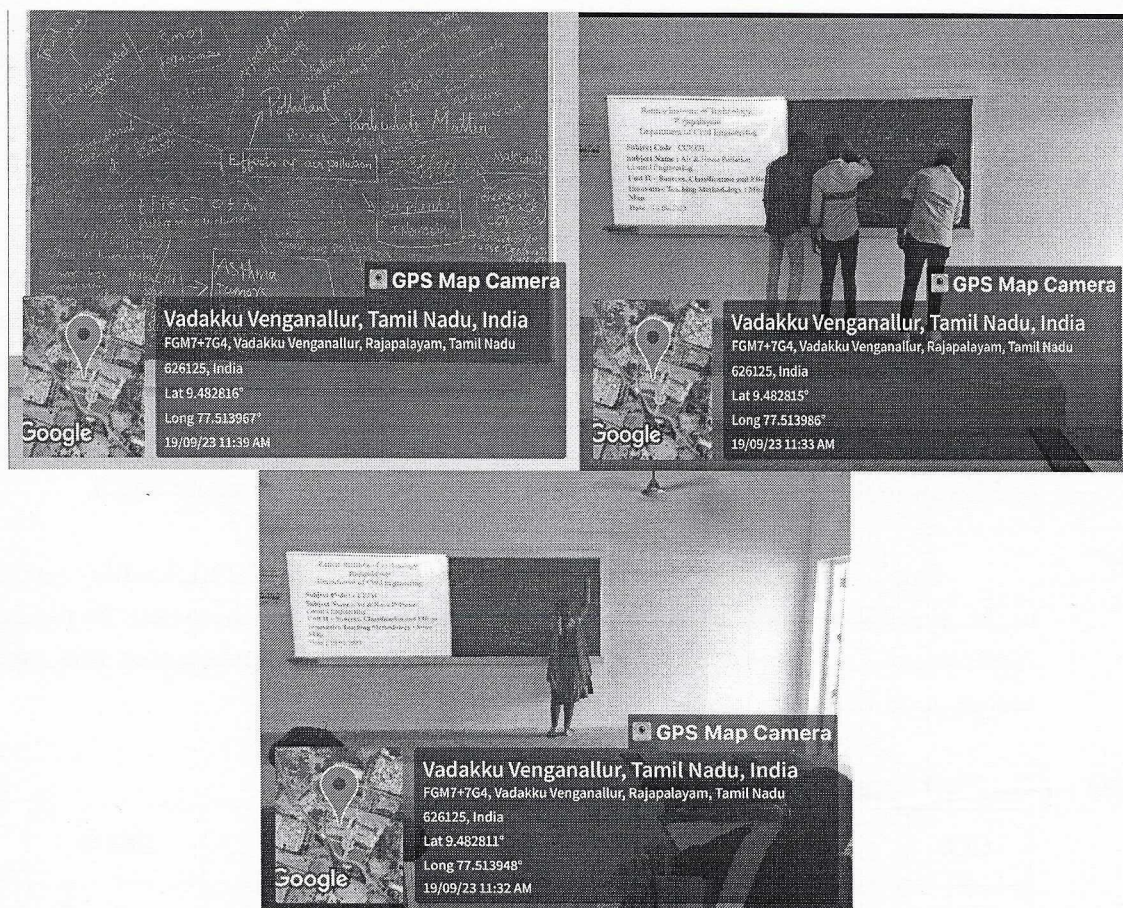
2 – Moderate

3 – High)

• PO / PSO mapped:

Innovative practice	PO1	PO2	PO6	PO7	PSO4
Justification for correlation	Students will be getting Meteorological knowledge which is very essential to aware the impact of air pollution.	Students can be able to determine the rate of air pollutant in atmosphere by help of mathematical equation.	Assess the impact of air pollutant that knowledge will be shared to society for creation of awareness.	Knowledge gained about environmental factors which can pollute the air.	Use new ideas to control the Air Pollution problems

• Images / Screenshot of the practice:



❖ Reflective Critique:

❖ Feedback of practice from students and other stakeholders:

Students were asked me to conduct such activities for forth coming classes. The students felt easy to remember and recollect the concepts involved in the given topic which will make them to attend the questions under this topic in Internal Assessment Test.

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


The students gave oral feedback that now they got a clear idea about Effect of Air Pollution, and they asked me to conduct more such activities like this.

❖ ***Challenges faced in implementation:***

Initially, I planned to conduct this activity within 10 minutes. But it took 15 minutes to finish this activity, since few students got hesitate to come to the board and write; I made those students to come forward. So it took 5 minutes extra time to finish this activity.

References:

- ❖ M.N. Rao and HVN Rao, “Air Pollution”, Tata MCgraw Hill Publishing Company limited 2007.
- ❖ C.S.Rao, “Environmental Pollution Control Engineering”, New Age International (P) Limited Publishers, 2006.


Signature of Faculty Member


HOD