



## Department of Civil Engineering

Academic Year 2021– 2022 (Odd Semester)

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

Course Code & Title: OCE551 & Air Pollution and Control Engineering

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

### Innovative Practice Description

Unit / Topic: Unit I / Classification of Air pollutant and their effect

- **Course Outcome:** CO1
- **Topic Learning Outcome:** TLO1
- **Activity Chosen:** Four Corner Four Question
- **Justification:**

Types of air pollutant and their effects on human and property is a topic that involves the understand the source and characteristics of air pollution and identifies the impact of air pollution on human, vegetation, animals and properties. For that, I want to assess the understanding level of the students that's why I have chosen four corner four questions for the above topic.

- **Time Allotted for the Activity:** 3 minutes

- **Details of the Implementation:**

- The four corner four questions is a very commonly used classroom assessment technique. It really does take about a minute and, while usually used at the end of class, it can be used at the end of any topic discussion.
- I asked all students to take a piece of paper and made them to write answers for the questions which are available in four corners in PPT.

- **CO – PO / PSO mapping:**

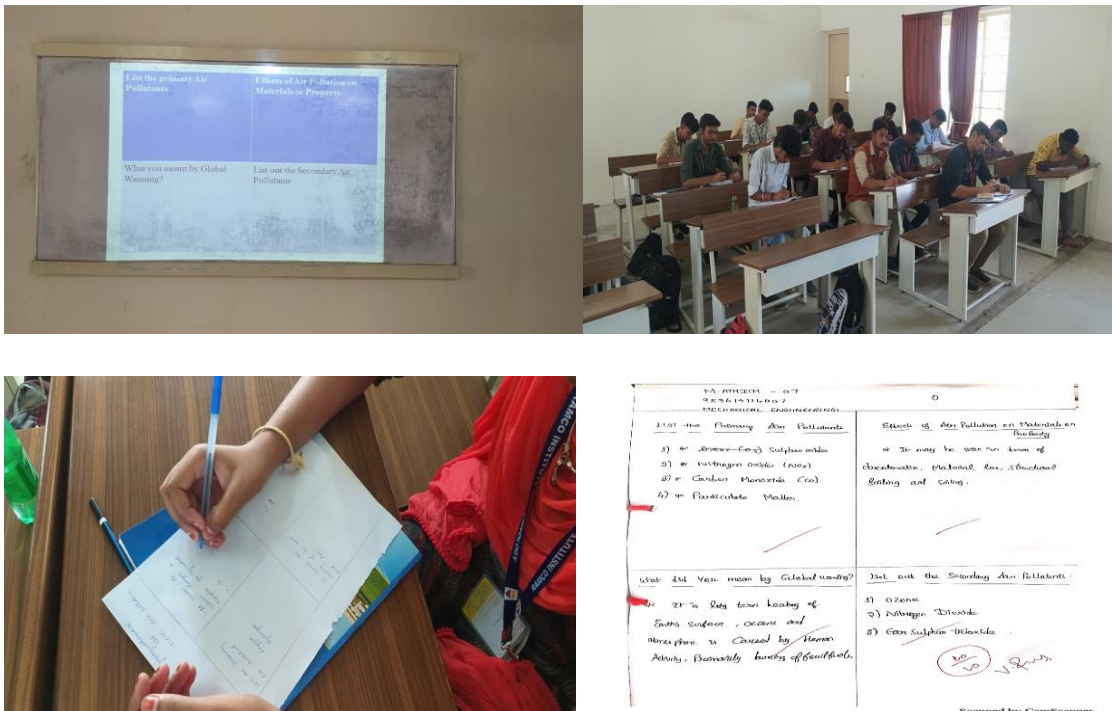
CO	PO1	PO2	PO6	PO7	PSO4
CO1	2	1	2	3	1

(1 – Low      2 – Moderate      3 – High)

• **PO / PSO mapped:**

Innovative practice	PO1	PO2	PO6	PO7	PSO4
<b>Justification for correlation</b>	Understand the source and characteristics of air pollution and identifies the impact of air pollution on human, vegetation, animals and properties, students will be able to aware the impact and give solution to area which is affected by pollutant.	Students can be able to determine the rate of air pollutant in atmosphere 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 solve existing /novel problems

• **Images / Screenshot of the practice:**



- **Reflective Critique:**

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

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)

- i. Four corner four questions activities are an effective way of involving all students in class simultaneously.
- ii. It prompts students to reflect on the day's lesson and provides the instructor with useful feedback.

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

Initially, I have planned the activity for 3 minute but students have taken 5 minutes to write the answers.

**References:**

- ❖ Noel de Nevers, "Air Pollution Control Engineering", Waveland press, Inc 2017.
- ❖ M.N. Rao and HVN Rao, "Air Pollution", Tata MCgraw Hill Publishing Company limited 2007.