

RAMCO INSTITUTE OF TECHNOLOGY
Department of Electronics and Communication Engineering
Academic Year: 2020- 2021 (Even Semester)

Innovative Practices Description

UNIT II Environmental Pollution

Degree, Semester & Branch: IV Semester B.E ECE A

Course Code & Title: GE 8291 Environmental Science and Engineering

Name of the Faculty member: Dr.G.Kanthimahti

Name of the topic: Air Pollution

Name of the Activity: Mind Map

Date & Duration: 24.03.2021 (10 minutes)

Description:

Mind Mapping is a useful technique that supports learning, improves information recording, shows how different facts and ideas are related, and enhances creative problem solving.

Goals (Learning Outcomes):

1. The students will be able to learn the causes, effect and control measures of air pollution, water pollution, soil pollution, noise pollution, radioactive pollution and thermal pollution with their relevant case studies.

Use of appropriate methods:

Justification for choosing the topic using mind map:

The mind map help the student to learn with practice, as they allow the students to think back to the information previously learned and remember them while using mind map.

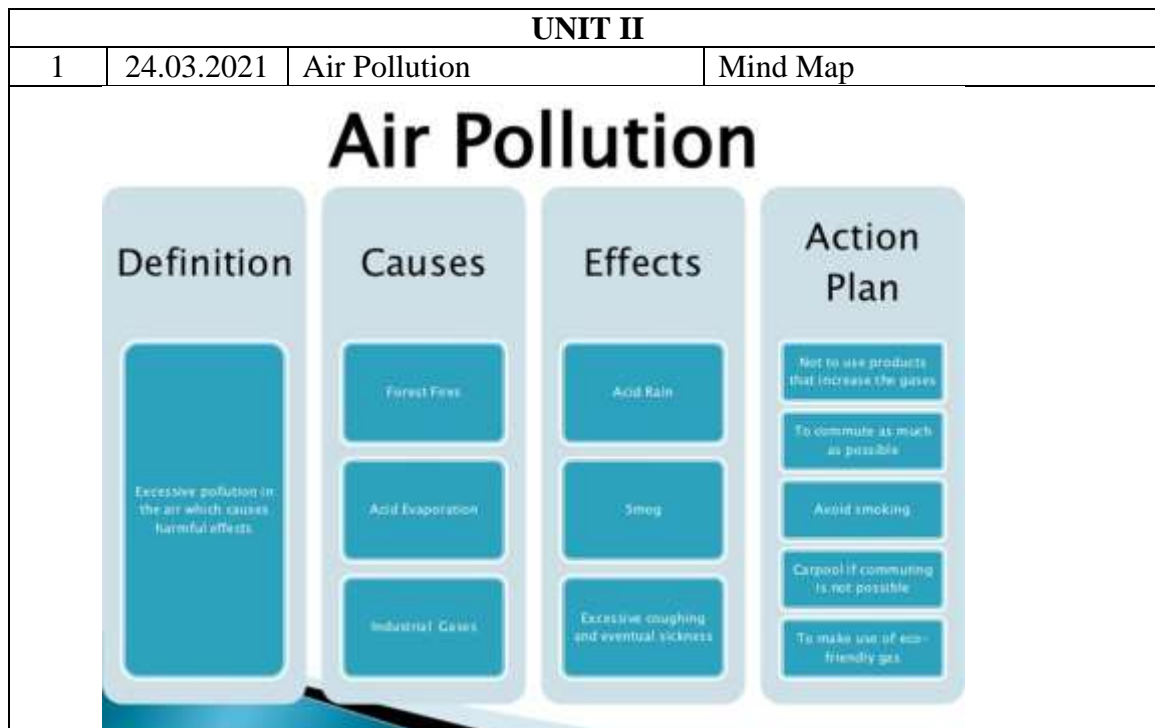
Mind map regularly helps in learning and long-term memory, leading to better performances in examinations.

Effective presentation

Implementation (Plan & Execution) with Proof:

- ✓ Mind map is an effective way of involving all students in class simultaneously. It ensures equal participation of each and every class member, including anyone who may be too shy or fearful to participate orally.
- ✓ Mind map help students to note down only the most important information using key words, and then make connections between facts and ideas visually – keeping all of topic thoughts together on one sheet. This makes note making easier or students, as it reduces pages of notes into one single side of paper.
- ✓ Mind map is an easy tool to share data, save time and take notes.

Sample Images:



Significance of Results:

Assessment of Effectiveness/Success of the Activity:

- By conducting this activity, the students were able to recall the topics and they were able to score good marks for the questions under this topic during Internal Assessment Test I.
- They were able to realize the points.
- **Reflective Critique:**
 - **Benefits:**
 - Mind map can improve the quality of class discussion by having students write briefly about a concept or issue before they begin discussing it.
 - I have found that this gives the more reflective chance to the students to gather their thoughts prior to verbalizing them and benefits that student who are more fearful of public speaking by giving them a script to fall back on (or build on)
 - **Challenges:**
 - As it is mentioned above that it takes one minute to conduct this activity. But, the students are failed to remember all equations in a given duration. They took five minutes to complete this activity.

Course Outcome	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
CO2	1	1	1	1	1	1	1	1				1

CO2: Describe the causes, effect and control measures of air pollution, water pollution, soil pollution, noise pollution, radioactive pollution and thermal pollution with their relevant case studies.

References:

1. Erach Bharucha, “Textbook of Environmental Studies”, Universities Press (I) Pvt, Ltd, Hyderabad, 2015.