



RAMCO INSTITUTE OF TECHNOLOGY

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Department of Civil Engineering

Academic Year: 2021 - 2022 (Even Semester)

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

Course Code & Title: CE8401 & Construction Techniques and Practices

Name of the Faculty member: Mr.J.Ramprashath

Innovative Practice Description

Unit / Topic: Unit - V / Types of earthwork equipment - tractors, motor graders, scrapers, front end loaders, earth movers

- **Course Outcome:** CO5
- **Topic Learning Outcome:** TLO13
- **Activity Chosen:** Cross Word Puzzle
- **Justification:**

There are variety of construction materials used for various construction activities. Hence, I made a cross word puzzle on the above topic to make the students more familiar.

- **Time Allotted for the Activity:** 10 minutes.
- **Details of the Implementation:**
 - i. Cross Word Puzzle is a very commonly used classroom assessment technique. It is a fun filled assessment technique which also engage the students actively in the class.
 - ii. I took all the students to Civil Cadd lab and asked the students to take the cross word puzzle.
- **CO – PO / PSO mapping:**

CO	PO1	PO5
CO5	2	1

(1 – Low 2 – Moderate 3 – High)

- **PO / PSO mapped:**

Innovative practice	PO1	PO5
Justification for correlation	Application of knowledge of civil engineering is must for demonstration about the Selection and operation of hand and power tools and equipment used in the building construction sites.	Demonstration about the Selection and operation of hand and power tools and equipment used in the building construction sites is very much essential for arriving at suitable conclusion for investigations of complex civil engineering problems.

- Images / Screenshot of the practice:

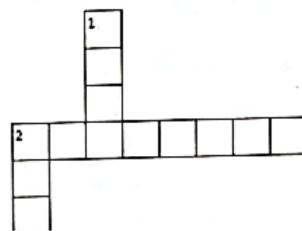
Crossword Labs

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Types of earthwork equipment - tractors, motor graders, scrapers, front end waders, earth movers

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ACROSS

2. excavation in sea
3. excavator motor grader

DOWN

1. hammer pile driving
2. cutting and filling
3. large bucket

- **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:**

- i. Cross Word Puzzle is 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 10 minutes but students have taken 15 to 20 minutes to complete.

References:

- ❖ Peurifoy, R.L., Ledbetter, W.B. and Schexnayder, C., "Construction Planning, Equipment and Methods", 5th Edition, McGraw Hill, Singapore, 1995.
- ❖ <https://crosswordlabs.com/view/types-of-earthwork-equipment-tractors-motor-graders-scrappers-front-end-waders-earth-movers>

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Signature of Faculty Member

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HOD