



Department of Civil Engineering
Academic Year 2024 – 2025 (Odd Semester)

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

Course Code & Title: CE3302 – Construction Materials & Technology

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

Innovative Practice Description

- **Unit / Topic:** Unit IV - Construction Equipments
- **Course Outcome:** CO4
- **Topic Learning Outcome:** TLO16, TLO17, TLO18
- **Activity Chosen:** Crossword Puzzle
- **Justification:**

There are different types of equipments are used in construction industry especially for earthwork excavation, Concreting, Material handling, Erection of structures, Dewatering and Pumping. These are very essential for Civil Engineers who works onsite. Their understanding level of this particular topic can be ensured by conducting crossword puzzle.

Time Allotted for the Activity: 20 Minutes

• **Details of the Implementation:**

The Crossword puzzle is a very commonly used classroom assessment technique. It really does take about 20 minutes. Students will be divided in to teams and crossword puzzle sheets will be provided. It is a puzzle in which words are filled into a pattern of numbered squares in answer to correspondingly numbered clues and in such a way that the words read across and down.

CO – PO / PSO mapping:

CO	PO1	PO2	PSO4
CO4	2	2	2

(1 – Low 2 – Moderate 3 – High)

• **PO / PSO mapped:**

Innovative practice	PO1	PO2	PSO4
	2	2	2
Justification for correlation	Apply the knowledge of fundamentals to choose equipment used for construction	Identify relevant equipment for one particular work	Perform as design consultants in construction industry



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• Images / Screenshot of the practice:

PuzzleMaker
12/27/2022 10:18 AM

Unit 4 - Construction Equipments

ACROSS

- _____ is a vertical motion device.
- The dewatering of soil by electro-osmosis was developed by _____.
- _____ consists of a large bucket which is attached to a tractor.

DOWN

- _____ is very useful equipment and it can be used for construction work like to clear the site of work, to make the land level, etc.
- In small works, concrete is transported using _____.
- The size of the bulldozer is indicated by the dimension of its _____.
- Which one of the following method can be used to lower water table, using gravity flow?
- _____ is a type of cranes.

Use the clues to fill in the words above.
Words can go across or down.
Letters are shared when the words intersect.

8 of 8 words placed

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Reflective Critique:

❖ Feedback of practice from students and other stakeholders:

Oral feedback was received from students and most of them conveyed that they it was brainstorming.

❖ Benefit of the practice:

This practice gave confident to the students on selecting equipment for different types of construction practices

Signature of Faculty Member

HOD/Civil