



Department of Civil Engineering

Academic Year 2021– 2022 (Odd Semester)

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

Course Code & Title: CE8591 & Foundation Engineering

Name of the Faculty member (s): Mrs.R.Kalaimani

Innovative Practice Description

- **Unit / Topic:** Unit IV / Types of Piles

- **Course Outcome:** CO4

- **Topic Learning Outcome:** TLO10

- **Activity Chosen:** Mind Map

- **Justification:**

Mind mapping is a visual method to identify the various types of piles and their functions

- **Time Allotted for the Activity:** 15 minutes

- **Details of the Implementation:**

- Mind mapping helps you think, collect knowledge, remember and create ideas. Most likely it will make you a better thinker.
- I asked all students to take a piece of paper and made them to write types of piles with their function whatever they remember related to given topic.

- **CO – PO / PSO mapping:**

CO	PO1	PO2	PO3	PO4	PSO4
CO1	2	2	2	1	2

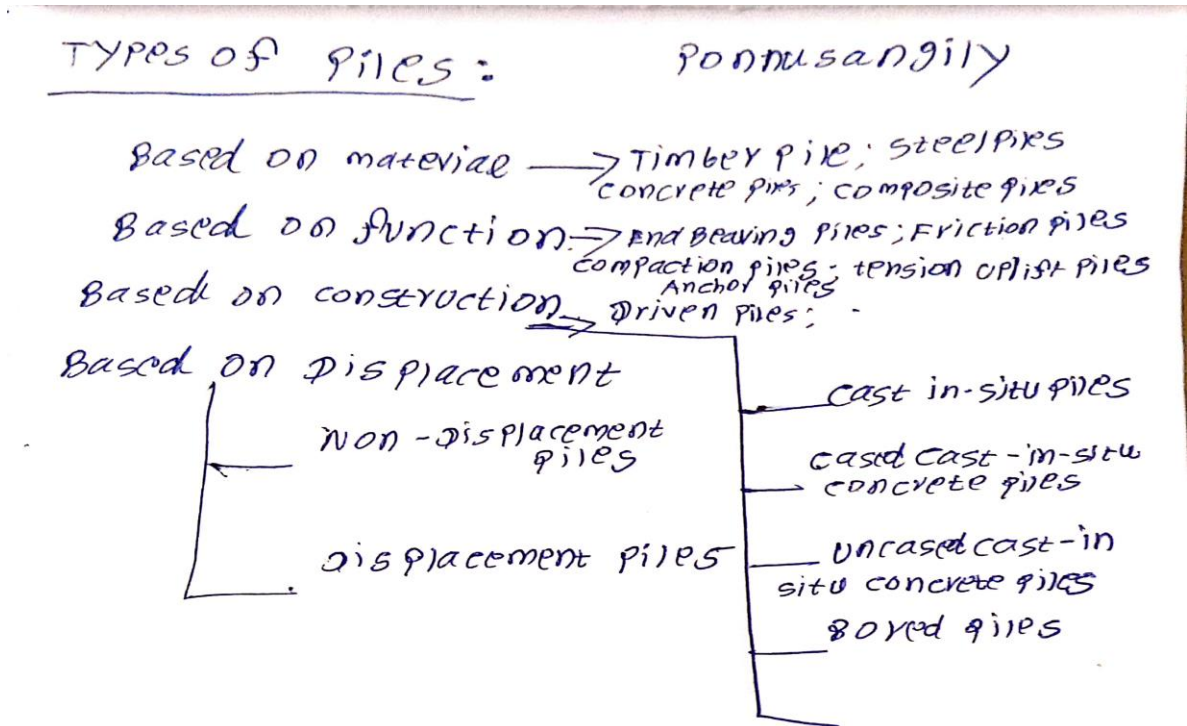
(1 – Low 2 – Moderate 3 – High)

- **PO / PSO mapped:**

Innovative practice	PO1	PO2	PO3	PO4	PSO4
Justification for correlation	Apply the knowledge of mathematics and engineering fundamentals to foundation design	Represent data (in tabular and/or graphical forms) so as to facilitate analysis and explanation data, and drawings of conclusions	Identify engineering systems, variables, and parameters to solve the problems on footing design	Knowledge about the behavior of expansive soil will help students decide the suitable foundation for the soil type	Perform as design consultants in the construction industry for the design of pile foundation



- Images / Screenshot of the practice:



- Reflective Critique:

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

From this activity, the students have given the feedback as made to collect knowledge, remember and create ideas.

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

- Mind map is an effective way of involving all students in class simultaneously
- 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 types of piles and their functions

References: <https://www.mindmeister.com/blog/why-mind-mapping/>