



## Department of Civil Engineering

Academic Year: 2021 - 2022 (Odd Semester)

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

Course Code & Title: CE8392 & Engineering Geology

Name of the Faculty member: Mr.J.Ramprashath

### Innovative Practice Description

#### Unit / Topic: Unit I / Soils - landforms and processes associated with river - relevance to civil engineering

- **Course Outcome:** CO1
- **Topic Learning Outcome:** TLO3
- **Activity Chosen:** One Minute Paper
- **Justification:**

Soils - landforms and processes associated with river - relevance to civil engineering (Geological Work of River) – The topic involves various processes of river erosion, transportation and deposition. During the above geological work of river, various geological landforms are formed on the earth surface. Hence, I wanted to assess the level of understanding of the students on this particular topic.

- **Time Allotted for the Activity:** 1 minute.
- **Details of the Implementation:**
  - One Minute Paper 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 in their own words about the topic at the end of the lecture.
- **CO – PO / PSO mapping:**

CO	PO1	PO2	PO4	PO6	PO12	PSO1	PSO3	PSO4
CO1	3	2	1	2	1	1	2	2

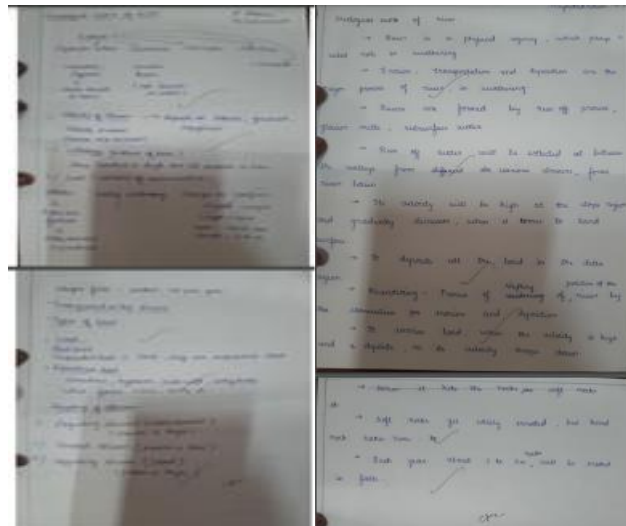
(1 – Low      2 – Moderate      3 – High)

- **PO / PSO mapped:**

Innovative practice	PO1	PO2
<b>Justification for correlation</b>	By understanding the importance of geology in civil engineering, the students will be able to provide solutions for complex civil engineering problems by applying the geological knowledge.	Analysis of complex civil engineering problems can be carried out with the help of natural and engineering sciences related to geological concepts.

	<b>PO4</b>	<b>PO6</b>
	Geological knowledge is very much essential for arriving at suitable conclusion for investigations of complex civil engineering problems.	Applying reasoning informed by the contextual geological knowledge is necessary to assess the consequent responsibilities relevant to the professional civil engineering practice.
	<b>PO12</b>	<b>PSO1</b>
	As geological conditions on and below the earth are subjected to periodical change, lifelong learning is at most important.	Geological knowledge is also an important criterion for presenting the civil engineering projects effectively.
	<b>PSO3</b>	<b>PSO4</b>
	Geological and geotechnical problems can be resolved using sound geological knowledge.	Geological knowledge of the site is a basic requirement for performing as civil engineering consultant and also for design of civil engineering structures.

• **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. One Minute Paper 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 1 minute but students have taken 2 to 3 minutes to write the answers.

**References:**

- ❖ Parbin Singh. A "Text book of Engineering and General Geology", Katson publishing house, Ludhiana 2009.