



## Department of Civil Engineering

Academic Year 2021– 2022 (Odd Semester)

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

Course Code & Title: GE8071 & Disaster Management

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

### Innovative Practice Description

Unit / Topic: Unit I / Types of Natural and Man-made Disasters

- **Course Outcome:** CO1
- **Topic Learning Outcome:** TLO2
- **Activity Chosen:** Cross Word and Jigsaw Puzzle
- **Justification:**

Crossword puzzle and Jigsaw puzzle activity gives the clear idea about the particular topic. It differentiates the important terms clearly which will be helpful for understanding the concept of natural disasters as well as to remember the important terms easily.

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

- **Details of the Implementation:**

- The students were split into a group of two members and the questions with crossword puzzle format were given to each group and the students were asked to answer the questions from the knowledge of what they learnt in the disaster types. At the end of the activity the correct answers were discussed.

- **CO – PO / PSO mapping:**

CO	PO9	PO10	PO12
CO1	1	2	1

(1 – Low      2 – Moderate      3 – High)

- **PO / PSO mapped:**

Innovative practice	PO9	PO10	PO12
<b>Justification for correlation</b>	Understanding the impact of team work while providing solutions for Environmental issues	Providing early warning to the peoples during disaster period	Continuous learning while updating technology as per the changing scenario in facing disasters

- Images / Screenshot of the practice:

**Innovative teaching method Execution**

A. KEERTHI ROSA  
H. SIVA SAKTHINA  
T. NARHADA

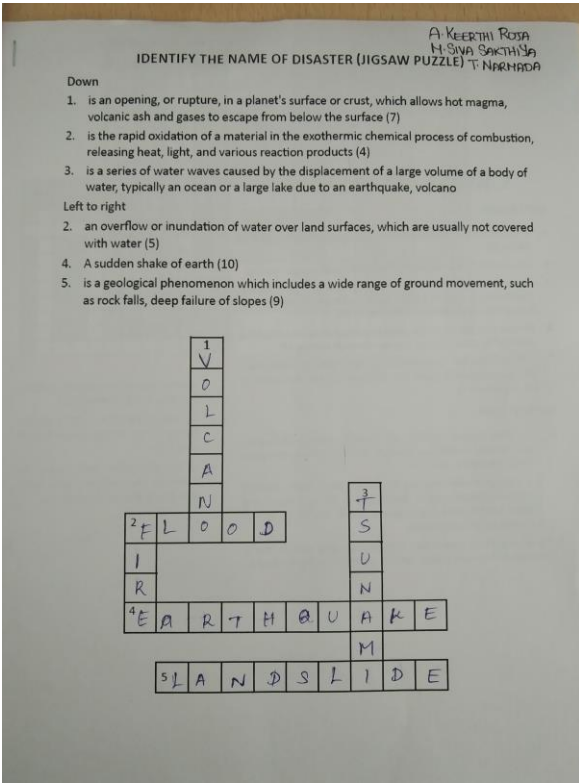
IDENTIFY THE NAME OF DISASTER (JIGSAW PUZZLE)

**Down**

- is an opening, or rupture, in a planet's surface or crust, which allows hot magma, volcanic ash and gases to escape from below the surface (7)
- is the rapid oxidation of a material in the exothermic chemical process of combustion, releasing heat, light, and various reaction products (4)
- is a series of water waves caused by the displacement of a large volume of a body of water, typically an ocean or a large lake due to an earthquake, volcano

**Left to right**

- an overflow or inundation of water over land surfaces, which are usually not covered with water (5)
- A sudden shake of earth (10)
- is a geological phenomenon which includes a wide range of ground movement, such as rock falls, deep failure of slopes (9)



CROSS WORD

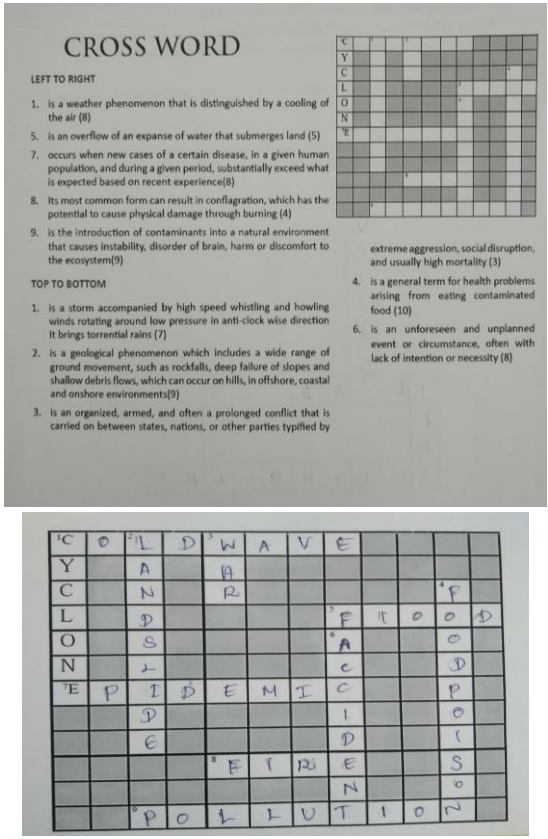
**LEFT TO RIGHT**


- is a weather phenomenon that is distinguished by a cooling of the air (8)
- is an overflow of an expanse of water that submerges land (5)
- occurs when new cases of a certain disease, in a given human population, and during a given period, substantially exceed what is expected based on recent experience(8)
- its most common form can result in conflagration, which has the potential to cause physical damage through burning (4)
- is the introduction of contaminants into a natural environment that causes instability, disorder of brain, harm or discomfort to the ecosystem(9)

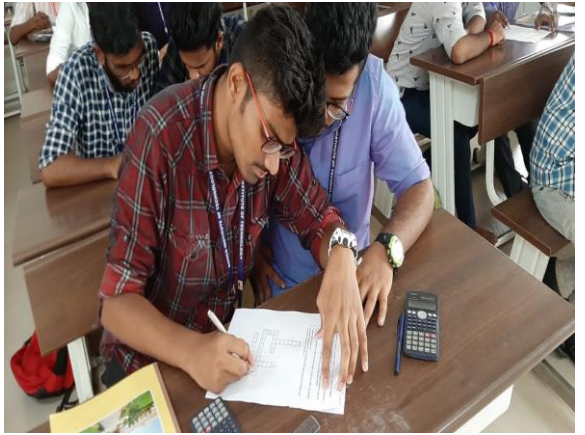
**TOP TO BOTTOM**

- is a storm accompanied by high speed whistling and howling winds rotating around low pressure in anti-clock wise direction It brings torrential rains (7)
- is a geological phenomenon which includes a wide range of ground movement, such as rockfalls, deep failure of slopes and shallow debris flows, which can occur on hills, in offshore, coastal and onshore environments(9)
- is an organized, armed, and often a prolonged conflict that is carried on between states, nations, or other parties typified by

extreme aggression, social disruption, and usually high mortality (3)  
is a general term for health problems arising from eating contaminated food (10)  
is an unforeseen and unplanned event or circumstance, often with lack of intention or necessity (8)







- **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)
  - This activity helped the students to quickly recap the important fundamental knowledge about Natural disaster and Man-made disasters.
  - The students got a clear idea about this topic and they felt it was useful and they were eagerly participated.
- ***Challenges faced in implementation:***

This activity was planned for 15 minutes but it took 20 minutes for completing the discussion.

**References:**

- <https://nptel.ac.in/courses/105/104/105104183/>
- <https://nidm.gov.in/PDF/pubs/ACTIVITY%20BOOK%20DM.pdf>