

Innovative Teaching – Learning Practices (2021-2022/ Even Semester)

Subject: Concrete Technology

Class: II - B

Faculty In-charge: Ms. K. Dhivya, AP / Civil.

Method implemented: Group Discussion

Topic: Properties of Fresh and Hardened Concrete



Objective: To create a mind map and discuss different properties of concrete

Outcome:

1. Students were able to understand fresh properties of concrete.
2. Students were able to understand hardened properties of concrete.
3. Students were able to understand mechanical properties of concrete.

Description:

Concrete technology deals with study of properties of concrete and its practical applications. Concrete is a construction material composed of cement, fine aggregates (sand) and coarse aggregates mixed with water which hardens with time. Concrete technology primarily deals with quality, physical and mechanical properties of ingredients used in concrete. Here Mechanical properties of concrete part is preferred for innovative

practices. Students in the II B section has splitted in to five main groups to prepare and discuss about particular topic which is assigned for them. Students are grouped based on their CIAT Performance and based on their interest. Young's modulus of concrete, fresh concrete properties, hardened properties of concrete, stress strain relationships of concrete, are the topics allotted for each groups. Students are instructed before a week to prepare mind map for the same topic. Mind up map can relate all the factors related to the topic like origin of the term, definition, principles involved in the topic, pros and cons, application, probable future advancement in the particular area and many more. All these factors can be pictorially representing in one chart for easy remembrance and understanding the concepts related to the topic. Students are instructed to prepare mind map and as well as to prepare for group discussion. Each group should prepare mind map and discuss the same with their parallel team. Group discussion will help them to share their knowledge which they prepared in the form of mind map and discussion points prepared for group discussion.