



DEPARTMENT OF CIVIL ENGINEERING
ACADEMIC YEAR 2022 – 2023 ODD SEMESTER
BRIDGE COURSE REPORT

The Department of Civil Engineering organized a bridge course for III Year students and IV Year students on 01.08.2022 to 10.08.2022 and II year on 11.8.2022 to 20.8.2022.

OBJECTIVE

The objective of the course is to bridge the gap between students understanding and their knowledge. To equip the student's knowledge, Structural Analysis was taken as bridge course for III year students and Structural Design and Drawing for the final year student and Engineering Mechanics and Strength Of Materials for II year students.

COURSE MAPPING

Structural analysis was taken as a bridge course to map Mechanics of Solids with Structural Analysis I. The course addresses decision analysis for structural engineering Systems based on determinate and indeterminate structure. Students learnt the structural engineering systems by static and kinematic with the external forces and propagating them through the relevant prediction equations. Structural Design and Drawing was taken as a bridge course to map the Design of Reinforced Cement Concrete Elements. Engineering Mechanics and Strength Of Materials was taken as a bridge course to understand the basic units, dimensions and forces through the integrated application of mathematical, scientific, and engineering principles. Special emphasis is placed on the physical principles underlying modern engineering design.

SESSION DETAILS

Ms.K.Elakkiya, AP/CIVIL, handled the session for III year students. She elaborated about the determinate and indeterminate structures. She described the various structural forms and important structural properties.

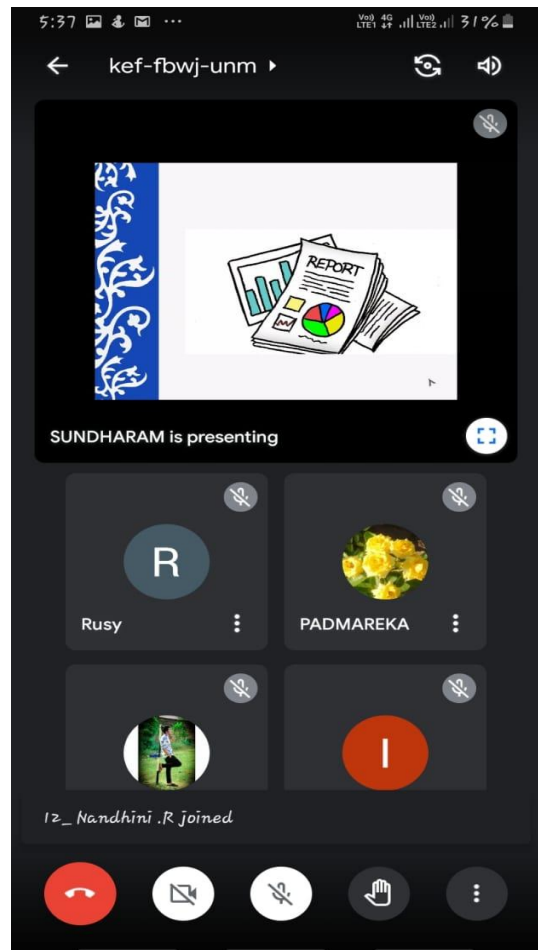
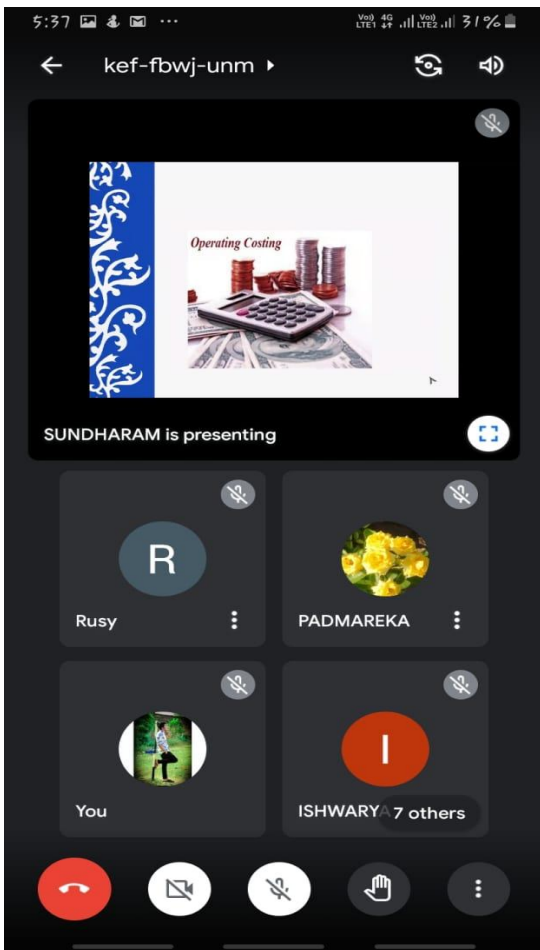
Mr.R.Ramchandrar, AP/CIVIL, handled the session for IV year students. He explained about the importance of various civil building structures, schedule of rates, costing, valuation of buildings and land. He illustrated about the report preparation, tender, contracts.

Ms.D.SHARMILA AP/CIVIL handled the session Engineering Mechanics for II Year students. She explained the basic formula for mechanics to know the properties of materials.

Mr.R.Ramchandrar, AP/CIVIL, handled the session for II year students. He explained about the importance mechanics of materials, typically refers to various methods of calculating the stresses and strains its ability to withstand an applied load without failure or plastic deformation.



III YEAR



IV YEAR

OUTCOME OF THE EVENT

At the end of session, the students would be able to,

- Knowledge in different types of load and supports.
- Identify whether the structure is determinate or indeterminate.
- Understand the various structural properties.
- Understand the basics of estimations of buildings, scheduling, report writing, contracts, and tenders.
- Apply knowledge of mathematics, science, for engineering applications.
- Identify, formulate, and solve engineering & real life problems.
- Design and conduct experiments, as well as to analyze and interpret data.