



AISSMS

COLLEGE OF ENGINEERING

ज्ञानम् सकलजनहिताय

An Autonomous Institute Affiliated with
Savitribai Phule Pune University



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Report on

“Course Activity - Hydraulic Structures Failure: Causes and Remedials”

Title: Course Activity – Hydraulic Structures Failure: Causes and Remedials in association with IIC, IWWA and ICI chapters

Type: Poster Competition cum Presentation on “Dams and Hydraulic Structures”

Date: 29th April 2026

Introduction: A course activity titled “Hydraulic Structures Failure: Causes and Remedials” was organized for the students of B.E. Civil Engineering as a part of the subject Dams and Hydraulic Structures. The activity was conducted in the form of a Poster Competition cum Presentation, aimed at enhancing students’ understanding of real-world challenges associated with hydraulic structures.

Objectives of the Activity:

- To create awareness about different types of failures in hydraulic structures such as dams, spillways, and canals.
- To understand the causes of structural failures and their impact on safety and environment.
- To explore suitable remedial measures and preventive strategies.
- To encourage research-based learning and case study analysis.
- To develop presentation, communication, and teamwork skills among students.

Students actively participated by preparing informative posters and delivering presentations on selected topics related to structural failures, case studies, and preventive strategies. Students explored different aspects such as structural failure due to poor design, foundation issues, overtopping, seepage, and lack of maintenance. They also suggested remedial measures including proper design practices, regular inspection, use of advanced materials, and modern monitoring techniques. The activity encouraged students to engage in research-based learning, improve their presentation skills, and develop a deeper understanding of practical engineering problems. It also promoted teamwork, creativity, and critical thinking among students. Judge Sc. V. S. Ramarao and Faculty members evaluated the posters and presentations based on criteria such as technical content, clarity, innovation, and presentation skills. The

competition created a healthy learning environment and motivated students to explore beyond textbooks.

Outcomes of the Activity:

- Students gained knowledge about various failure modes of hydraulic structures.
- Improved understanding of causes and remedial measures for structural failures.
- Enhanced ability to analyze real-life case studies critically.
- Development of presentation, communication, and teamwork skills.

Overall, the activity was highly informative and successful in achieving its objective of linking theoretical knowledge with practical applications in the field of hydraulic engineering.

Few Glimpses:



Evaluators assessing the posters during the competition



Students presenting their posters to the evaluators