

INNOVATIVE TEACHING LEARNING

To inculcate the intrinsic interest of learning in students the faculty of the Civil Engineering Department use modern innovative methods along with traditional class room lectures to teach the curriculum to the students. The different innovative teaching methods applied by the faculty for the theory and laboratory-based courses include:

1. Interactive Learning - AVM

Use of audio-visual materials (AVM) to enhance the learning experience. Use of LCD projectors, interactive board etc. for bringing real life aspects and modern techniques of civil engineering into the class rooms with the help of multimedia, animation, videos etc. Use of 3D modelling software for improving visualisation and spatial skills of students in learning courses like engineering graphics etc..

2. Online Sharing of Materials

The Institution has dedicated software platform ET Lab in which faculty and students have login ID. Using this campus software and other virtual platforms platform like google classroom etc. the course material, assignments, NPTEL video lectures etc. are shared to students for increased flexibility in learning. Also, online evaluations are conducted for courses in the form of MCQS etc.

3. Application-Based Learning

- Students are encouraged to attend workshops on application-based learning.
- Students are encouraged to an internship in an industry of their choice.
- Students are taken to industrial visits at least once a semester to see the real-time operation of different companies, organisations.

4. Practical Learning

- Virtual laboratory classes are assigned to the students for developing prerequisite knowledge about lab classes.
- In addition to the experiments provided in the curriculum, students are instructed to practice additional experiments which are suggested by the faculty.
- Civil software like AutoCAD, STAAD, ABAQUS, ANSYS etc. are used by the students

5. Other Innovative Teaching methods adopted by the faculty

Real-Time Demonstration: Models are displayed in department model room through which the students can see the different aspects of civil engineering structures such as bridges, multi-storied buildings, etc.

Peer Group Learning: Students are encouraged to form peer groups to actively participate in learning process by teaching each other. The peer group consists of academically different level of students.

Funded Projects: To develop problem solving and research aptitude students are encouraged and guided by faculty members to do the projects.

Online MOOC courses: Students are encouraged to attend online MOOC courses in relevant areas.

Organisation of Technical Conferences and Exhibitions: International Technical Conference in Civil Engineering like ICETEST -2022 and technical festivals such as CONCETTO are organised by the department at regular intervals which aim to bring together engineers, construction practitioners, academicians and researchers to campus to share their knowledge, expertise and experience in Civil engineering with the students.

Expert Lectures by Academicians and Industrial experts: Other than this innovative and creative teaching methods, the focus of the department is also on the all-round development of the students. To that end, guest lectures and seminars are arranged from some of the best industrial and academicians so that students get updates on the state of the art in different domains of Civil Engineering.