



Computer Science and Engineering

INNOVATIVE TEACHING APPROACHES

The following innovative teaching learning methods can be adopted in the Department:

- Online GDB
- Jigsaw Method
- Online Quiz
- Flipped Classroom
- Online Classes
- Video Lectures
- Animation Videos
- Power Point Presentations
- Simulation Assignments

Online GDB:

Online GDB is online IDE with java compiler. Quick and easy way to run java program online. It allows editing and executing programs, as well as enabling automatic and continuous assessment.

NB: Sample sheets attached..

Jigsaw Method:

The jigsaw technique is a method of organizing classroom activity that makes students dependent on each other to succeed. It breaks classes into groups and breaks assignments into pieces that the group assembles to complete the (jigsaw) puzzle.

NB: Sample sheets attached..

Flipped Classroom:

This blended learning model allows trainers to prioritize active learning during class time, by giving learners the training materials and presentations before the actual class. The trainer can simply share the content via a learning management system (LMS), email, or however training is delivered.

Think Pair Share [TPS]

Think: Students think independently about the question that has been posed, forming ideas of their own.

Pair: Students are grouped in pairs to discuss their thoughts. This step allows students to articulate their ideas and to consider those of others.

Share: Students pairs share their ideas with a larger group, such as the whole class or a group smaller than an entire class.

Moodle / Gnomio

Moodle is a free and open-source learning management system (LMS), used for blended learning, distance education, flipped classroom and other e-learning projects. It is used to augment and move existing learning environments online. As an E-learning tool, Moodle developed a number of features now considered standard for learning management systems, such as a calendar and a gradebook. Moodle is used widely by all subjects to conduct online quizzes, organize and disseminate learning materials.