

## Innovations by the Faculty in Teaching and learning

### Use of Teaching-Learning techniques

- Incorporating the maxims of teaching such as known to unknown, whole to part, concrete to abstract etc., into Teaching Learning process as much as possible to make it more effective.
- Adapting to different learning styles of students such as verbal, visual, kinaesthetic, interpersonal etc., while planning the Teaching Learning process as much as possible.
- Activity based learning such as group task, student seminar etc.
- Assigning a topic to the group of students and guiding them to give presentations.

### Innovative Practices

Pedagogical Initiatives	Use of ICT	Mentoring students with backlogs	Special classes to 3 <sup>rd</sup> and 4 <sup>th</sup> year students	Software trainings	Expert talk
<ul style="list-style-type: none"> <li>• Incorporating the maxims of teaching</li> <li>• Adopting to different learning styles</li> <li>• Activity based learning</li> </ul>	<ul style="list-style-type: none"> <li>• Use of MOODLE for Access to study material and question bank</li> <li>• Online quiz</li> <li>• Encouraging students to use internet facility</li> </ul>	<ul style="list-style-type: none"> <li>• Encouraging peer teaching</li> </ul>	<ul style="list-style-type: none"> <li>• Preparing for GATE exam</li> <li>• General Aptitude – quantitative, verbal ability etc.</li> </ul>	<ul style="list-style-type: none"> <li>• Workshops</li> <li>• FDPs</li> </ul>	<ul style="list-style-type: none"> <li>• Faculty seminars</li> <li>• Lectures from Industry experts</li> </ul>

#### 1. Use of e-resources and ICT

- Providing quick access to the Instructional material, PPTs, Question Bank etc., by hosting them on the MOODLE platform on the Department website to help students to learn the concepts at their convenient time.
- Conducting online Quiz on MOODLES through Institution website.
- Motivating the students for using Internet facility available in the department for deeper inquiry into the subjects.

#### 2. Mentoring students with backlogs

- Mentoring students with backlogs by concerned subject faculty before supplementary examinations

- Encouraging Peer teaching to enable students to attain self-learning skills.
3. Encouraging Advanced learners
    - Encouraging the students to give presentations on recent advances in Information technology and computer engineering, related to the concerned subject.
    - Conducting special classes to 3rd and 4th year students for GATE
    - Conducting Mock GATE examinations for 4th year students
    - Conducting General Aptitude classes for 3rd and 4th year students to enhance their employability skills.
  4. Software Trainings
    - Organizing workshops/training programs on Software Development, DevOps, Machine Learning, Deep Learning, Artificial Intelligence and other relevant areas to make our students industry ready.
    - Organizing FDPs/Workshops to faculty on new software and Sponsoring faculty for FDPs/Workshops at higher learning Institutes, which will indirectly benefit the students in the Teaching Learning process.
  5. Covering Topics beyond curriculum
    - Faculty seminars / lecture from experts from Industry on topics beyond curriculum in each course in regular class work.
    - Organizing student seminars on topics beyond curriculum.
    - Demonstration of advanced topics beyond curriculum by referring research journals and NPTEL materials.
  6. To help students monitor and reinforce their learning
    - Conducting class tests from a previously circulated Question bank.
    - Guiding the students to solve previous GATE problems.
    - Demonstration of advanced topics beyond curriculum by referring research journals and NPTEL materials.