

Goal and Objective of Innovations by the Faculty in Teaching and Learning

Innovative teaching methodologies help faculty to deliver their lectures in a faster and efficient manner thereby allowing the students to be aware of technological advancements. In addition, innovative teaching aids also impart rationale thinking and self sufficient thought process in the mindsets of students by making them more proactive. Few of the innovative teaching techniques adopted in the department are briefly tabulated below:

| Sl. No. | Innovative Method | Mode of Teaching /Learning process | Objective |
|---------|---|--|---|
| 1. | FLIPPED CLASSROOM | online mode through <u>website</u> | Study material is made available to the students for any time access. |
| 2. | E-LEARNING | NPTEL/UDEMY/COURSERA | Upgrade the quality of engineering education on tip compatibility & resources for beyond curriculum. |
| 3. | VIDEO LECTURE | Online mode through <u>YouTube</u> | Lecture material is made available to the students for all time. |
| 4. | DEMONSTRATION THROUGH WORKING MODELS | Live Demonstration | The students gain clear knowledge about the working principles of the machine/model. |
| 5. | GOOGLE CLASS ROOM | QUIZ/ASSIGNMENT/STUDY MATERIAL | Students are made to join as members of the Google class room. Study materials, Assignments, Quiz questions are posted in the app. |
| 6. | WIT & WIL, | A video or presentation is designed and created using ICT tools in order to present the teacher's perspective ("WIT") about scenario of the respective subject or laboratory. | The video is designed such that it maps every topic of the prescribed syllabus to the real world in order to give the students a tangible experience of understanding the underlying engineering concepts to perceive for themselves ("WIL"). |

Goal and Objective of Innovations by the Faculty in Teaching and Learning

| | | | |
|-----|---------------------------------------|--|--|
| 7. | Interaction with outside world | Student participation in various technical event/competition | Students are made to build their confidence and self identity through award winning. |
| 8. | PROJECT ASSIGNMENTS | The students will be given the project topics and made them to present Hardware model and submit the project report in write up. | Students are made to build their confidence and get satisfaction by designing such kind of hardware prototype using their knowledge on different subject. |
| 9. | VIDEO CLASS ROOM FOR MOOCs | The students will be shown the NPTEL Video on the lecture topics of the resource persons from IITs, NITK, etc. | The students who have enrolled for different online certification courses can use the infrastructure available in the department/institution during the college timings for completing their courses and some respective faculty members are allotted for supporting them. |
| 10. | EMPLOYABILITY SKILLS | Training on Technical Skills & Soft Skills | Awareness and readiness for employability. |