

## **Department of Electronics and Communication Engineering**

## **Innovative Methods in Teaching Learning Process**

The following are the methodologies are used by our faculty members in the department in teaching Learning Process.

Table 5.5.1: Innovative Methods in Teaching Learning Process.

Innovativ e method	Process	Outcomes	Supporting Information
Peer Learning	<ul> <li>Identification of student mentors based on Academic performance.</li> <li>Mentors support mentee, who are lagging in their academics.</li> </ul>	<ul> <li>The academic levels of the mentees are improved.</li> <li>Leadership quality is enhanced among the mentors.</li> </ul>	Active participation of ECE students in Peer Learning.

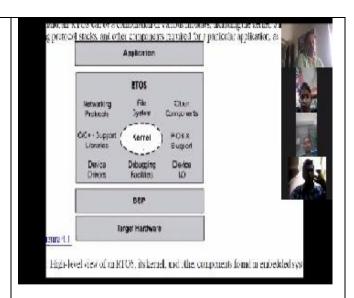
Student Seminars	• The overall objective of this activity is to motivate students for Self-Study and Group Study.	<ul> <li>The team building and leadership abilities among students are fostered.</li> <li>The Oral communication skills of the students are honed.</li> <li>The Individual responsibility and team spirit of the students are fostered.</li> <li>The knowledge up- lift happens as an outcome of knowledge sharing.</li> <li>The time management, conflict management, and oral presentation skills of the students are enhanced.</li> </ul>	Student Seminar Presentation
Mini projects	• Students are motivated to identify a problem in and around their surroundings and identify a solution to it with apt resource management.	<ul> <li>It creates an opportunity to transform theoretical knowledge into working models and prototypes.</li> <li>In the process they identify available resources, negotiate with authorities and pool-up the required resources.</li> </ul>	Pesticide Spraying Machine Model

Online learning	<ul> <li>Students are encouraged to learn through online platforms like NPTEL, Coursera etc.,</li> <li>So that they are evaluated on a common platform- learning environment.</li> </ul>	• The aspirants are globally competitive.	NPTEL Online Certification  (French by the Montary of Pill) Gord of India  **TRips origination is associated to MEGHANA*  **Trips origination of Pills origination origination of Pills origination
Modular Courses	Summer vacation is grabbed and utilized to expose the students to industry oriented elite courses.	<ul> <li>The process makes the students industry ready.</li> <li>It fills the gap between industry and academics</li> <li>Students bag hands on exposure and advanced learning</li> </ul>	Students Involved in Modular Courses
RPT (Revision, Practice & Test)	<ul> <li>Revising the topics unit wise while stressing on important areas.</li> <li>Providing students a chance to recap their preparation with focus.</li> <li>Conducting a test in-line with university end examination.</li> </ul>	<ul> <li>Students find it a cakewalk to face university end examination.</li> <li>It promotes pass percentage in the respective subjects.</li> </ul>	Students Involved in RPT

vlits Moodle	Moodle is a learning platform designed to provide educators, administrators and learners with a single robust, secure and integrated system to create personalized learning environment to share course content.	It provides a unique platform for sharing of knowledge a converged motivation for all levels of learners.	Accessing course materials using Moodle
Flipped Class rooms	<ul> <li>This process includes a pre- Learning, Participatory Approach (PA) and demands maximum focus and involvement of the learners.</li> <li>Relevant materials are provided in advance and students are asked to participate during the delivery of the topic.</li> </ul>	<ul> <li>Students are able to apply the knowledge in real time applications.</li> <li>Focus and participation of the students in learning is ensured.</li> </ul>	Students are involved in Flipped Class

## • Voluntarily a paradigm shift took place in the field of education and we flipped to online teaching and testing to fill the gap due to Virtual COVID-19 pandemic Class • We have used the platforms Room like ZOOM and WebEx to interact with students of the entire class as a whole and led a virtual classroom, we have using google sheets to conduct examinations. Blended Learning is an

- The academic calendar was followed without any lapses.
- Both faculty and students experienced direct interaction, thus beat COVID-19.
- It is observed that absenteeism is minimized during these sessions.



Students are participating in ZOOM class

## Blended Learning

 Blended Learning is an integrated online education to imbibe conventional and virtual learning methods.

- Provides access to global resources and materials that meet the students' level of knowledge and interest.
- Self-pacing for slow or quick learners reduces stress, increases satisfaction and

information retention.



Students are actively participating in Blended Learning