

# Teaching Learning Process

## Department of Information Technology

1. **Implementation of Mentor-Mentee concept** : Enables focus on individual students, increasing the scope of giving guidance, counseling and monitoring for better improvement of each and every student.
2. **Group Discussions:** The students participate in mock interviews and group discussions to give them a sense of confidence and groom them towards professionalism.
3. **Assignments:** The best teaching practice-formative assessment, assignment design to foster student engagement and ownership
4. **Placement Oriented Training** : Campus recruitment training (CRT) is given to the students from II year onwards to cater the needs of students for placements.





- 5. Incubation Cell:** With the support of Incubation Cell, our students will be given encouragement during their III Year and IV Year to do some Live Projects offered by college or industry. With this students will get more knowledge on programming skills.

6. **Internships:** Internship is a system of on-the-job training provided for our students by real time environment of IT Industry. Internships provide opportunities for students to gain experience in their field, determine if they have an interest in a particular career.



## **Innovations by the Faculty in Teaching and Learning**

In the Department of Information Technology, much importance is given for incorporating innovative techniques in teaching. During the beginning of every semester, a refresher program is conducted to share the innovative practices followed by other faculties pertaining to a new/enriched course offered in the semester.

Such brainstorming sessions help transfer the best practices among faculties in the department. Pedagogues, Innovative Assessments, Assignments, Content beyond the Syllabus are typically discussed in the sessions. A snippet of one of the meetings conducted for one of the courses “Problem Solving using Computer Programming” is depicted in fig. Faculty members use the LCD Projectors for their presentations. The faculty members use these aids to take the teaching learning process to the next level. Lectures are presented by faculty members using a variety of teaching tools such as chalk and board, PowerPoint presentation, video lectures, models, charts, animation, and other teaching techniques such as lecture, group discussion, seminar, tutorials, guest lectures, and demonstration. Apart from this, the following are the various innovative practices followed at IT department to enhance Teaching.

### **1. Virtual lab & Skill Development**

The Powerful forces of the economic growth and development of country are Skill and Knowledge. Skill development is a crucial requirement for any economy to stay globally competitive and provide a good quality of life to its residents. However, despite the understanding that skill development is necessary for the sustenance and growth of any country, there is a considerable lack of quality training and resources in India to develop the skills of its workforce.

In fast growing economies with a huge and increasing population, there is a severe shortage of highly-trained, quality skilled resources, while on the other; large sections of the population possess little or no job skills. We need to produce dynamic and enterprising youngsters for facing technical challenges using Skill Development Training. So the industry is ready to recruit only skilled candidates who can contribute immediately to the well being of the company.

### **Student Can Enhance Using**

- Virtual Labs (<http://vlab.co.in/>)
- NPTEL (<https://nptel.ac.in/>)
- SWAYAM (<https://swayam.gov.in/>)
- Cisco Network Academy

### **2. Think-Pair-Share**

A collaborative learning strategy is used where students work together to solve a problem or answer a question about an assigned task for a specific topic from the course. Various groups are created in the class and each group forms a specific set of questions based on concepts covered in the class sessions. Each group then solves the questions formed by other groups. This tests the understanding of concepts by the students as for forming questions thorough understanding of concepts is required.

### **3. Flipped Learning**

Flipped Learning aims to increase student engagement and learning by having students complete the necessary readings at home and work on live problem-solving during class time. With a flipped classroom, students watch online lectures, collaborate in online discussions, or carry out research at home, while actively engaging concepts in the classroom, with the course teacher's guidance.