



## **Innovative Teaching – Learning Activity**

### **Project Based Learnings**

**Class: FE, SE, TE, BE**

#### **Objective:**

1. To develop collaborative learning and teamwork
2. To enhance students' presentation and communication.
3. To develop students' technical report writing abilities.
4. To promote innovation and creativity.
5. To work towards bridging the gap between academia and industry by involving industry professionals and alumni as judges and mentors.

#### **Outcomes:**

1. Improves teamwork and collaboration.
2. Improves presentation skills.
3. Improves technical report writing skills.
4. Participation in PBL exhibition and e-Ganesha competition improves communication skills and confidence among students.

#### **Details of the activity:**

- All students, from first year (FE) to final year (BE), are engaged in project-based learning. FE and SE students undertake course-based projects, while TE students focus on mini-projects, and BE students work on more complex major-projects as a part of their curriculum.
- At the end of each semester, a PBL exhibition is organized within the department, where student groups present their project models. Industry professionals, often alumni of the department, serve as judges.
- Prizes are awarded to the top three winning teams based on their project presentations. The department also hosts an annual E-Ganesha competition, where students showcase their creativity by designing and decorating ideas using innovative electronic components.
- Alumni of the department serve as judges for this competition, and winners are awarded exciting prizes to encourage their innovative spirit.

#### **Photo for Activity:**

Photographs of project-based learning exhibition cum competition



### **Impact of the activity:**

1. Working in a group strengthened improved teamwork and collaboration among students.
2. PBL experience enhanced students' performance in campus and internship interviews.
3. Students published research papers based on their projects.
4. Students actively participated in project exhibitions and diverse competitions, including Smart Hackathon, Dipex, and Karmaveer EXPO, where they achieved award-winning results.
5. Students participated in and won debate competitions.
6. Students published patent based on their projects.

## Student achievements

1. Won 1<sup>st</sup> Place at TechFiesta International Hackathon at PICT Pune. The team members have interdisciplinary backgrounds.

- Ayush Pund
- Yash Giri
- Yash Barve
- Vidhi Metkar



2. Ritesh Sakhare Won the first prize in the ABB Live Project Competition





3. Team Matrix is an interdisciplinary team that competes in robotics competitions. Team secured 7<sup>th</sup> place in the ISRO Robotics Challenge and 2<sup>nd</sup> place at National Robotex

