

BEST PRACTICE - 1

TITLE OF THE PRACTICE: **PROJECT BASED LEARNING**

OBJECTIVES OF THE PRACTICE

- ▶ To enhance the learning skill of the students
- ▶ To impart a deeper understanding of the course.
- ▶ To make the students to understand the course content through application oriented projects.
- ▶ To develop skills among the students to work as teams.
- ▶ To provide opportunities to enhance the knowledge through collaborative study.
- ▶ To understand the latest technologies that are practiced in the industries field that is related to the course.

THE CONTEXT

- ▶ Through project based learning, students will improve their attitudes towards learning and exhibit their individual talents. They understand theoretical information through practical work.
- ▶ Students can develop their critical thinking on problem solving skills.
- ▶ Students are motivated to obtain hands on experience and develop an interest to learn more theoretical of a course.
- ▶ To enhance the team spirit.
- ▶ Project based learning leads to the development of lab scale models by students as a part to explain the current scenario of their project or they can also develop models to forecast a suitable solution to that is relevant to their project. Project based learning provides an opportunity for the students to visit various fields / industries pertaining to their project and also to interact with the experts in the field of interest.

THE PRACTICE

- ▶ Meeting was conducted in the beginning stage and also in final stage with concerned Heads.

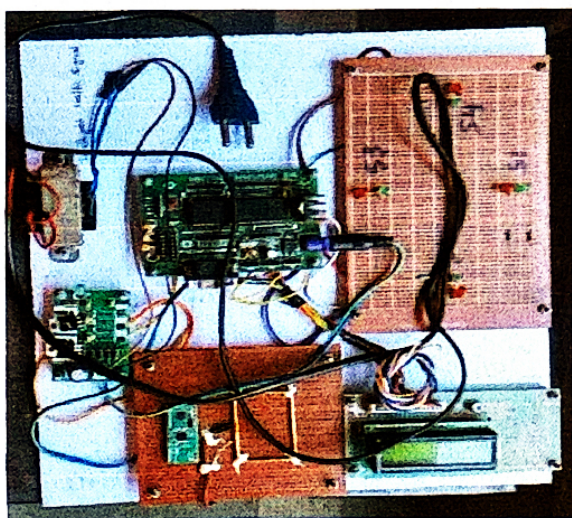


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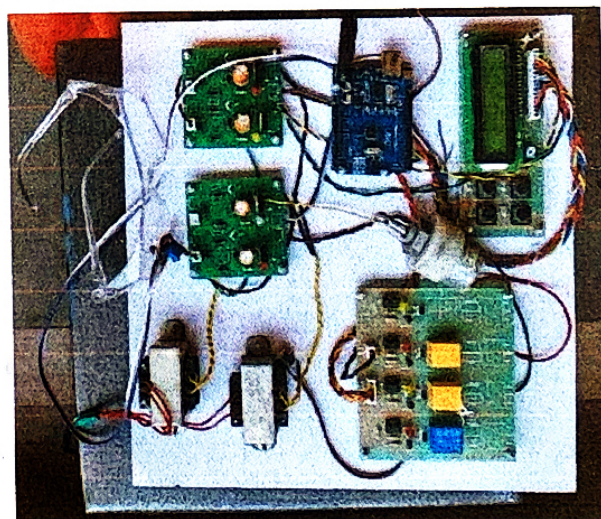
- ▶ Final Review meeting was conducted and all Heads presented the outcome of the Projects implemented by the students for several courses in their programmes.
- ▶ Project based learning also helped the students to select a suitable projects in their higher semesters especially in V11 and VII1 semesters. It was also witnessed that the students have also developed the skill of presentation which included a good communication skill and also presentation skill.
- ▶ Evaluation of the project is done based on their work done; presentation of the project and due weightage is also given for the final project book submitted by the students.

PROBLEMS ENCOUNTERED AND RESOURCE'S REQUIRED

- ▶ Time management by student is one of the problems encountered by the students.
- ▶ Assessment methodology to evaluate the project to be enhanced.
- ▶ Monitoring to be strengthened to identifying the level of the project as per the syllabus of the course.
- ▶ Project scheduling to be enhanced to avoid delay in completing the projects.



Intelligent Traffic Signal



Automatic driver alert system using Arduino



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BEST PRACTICE - 2

TITLE OF THE PRACTICE: SKILL DEVELOPMENT TOWARDS EMPLOYMENT

OBJECTIVES OF THE PRACTICE: The Entrepreneurship and Employability skills are being imparted through the Laboratories established by the support of Messer automobiles, IPCS Automations and CISCO

THE CONTEXT: JCT College of Engineering and Technology is having ingenious Power & Control Systems laboratory facilities. Through this IPCS research-oriented and progressive approach offers perfect automation solutions to a vast array of industries which include but are not confined to software, marine and construction engineering. We have been providing industries with services ranging from proposing and installing to the absolute commissioning of an automated system, Level I and Level 2 automation systems completely adhering to the industry standards. Capitalizing on its long-term industrial experience in Automation sector, IPCS, CISCO conducts various training programs specially tailored for Professionals, Corporate Companies and Colleges. IPCS provides a well-disposed and stimulating study environment addressing the intellectual, professional and leader development of students. The training programs provide the best practice in the latest technologies, trends and challenges in the immensely competitive areas of automation and embedded technologies.

THE PRACTICE: Messer Automobiles helps to work smarter and faster to compete with the industry world. IPCS Automations stimulates learning environment and gives exposure to latest technologies for students. CISCO helps students in gaining practical exposure via real CISCO devices and live equipment promoting innovative ideas leading to elevated professional growth. The company has set up the incubation centre at our campus. The exposure towards the industry environment helps the Students to shape their behavioral attitude.




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EVIDENCE OF SUCCESS:

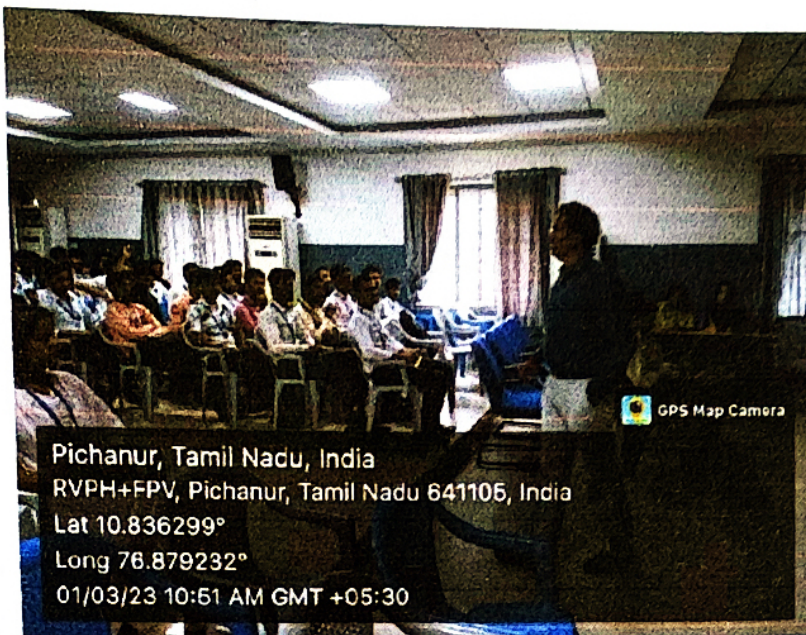
The exposure towards the industry environment helps the Students to shape their behavioral attitude.

PROBLEMS ENCOUNTERED AND RESOURCES REQUIRED:

The main objective is to improve the skill set of engineering students in Automation control, Embedded systems and applications by conducting value added course, certificate course and workshop



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