A REPORT ON
PROJECT BASED LEARNING (PBL)
for
Second Year **Undergraduate Students** of **Computer Science and Engineering** Department
for **Academic Year 2023-2024 (Odd Semesters) Semesters – III**

Objective—To enable the students to apply concepts of the present semester subjects in the form of a design project based on certain applications. It is hoped that it shall eventually lead to a better learning experience as opposed to text-book learning.

A real-time application topic is assigned to a group of students of the same year, to provide a common yardstick for comparison and enable healthy competition among the different teams. The students work in groups (maximum 10 students per group). Queries and doubts are clarified by interactions with the PBL coordinators and subject experts. Student groups submit the PBL report during their demonstrations on a specified date in front of the faculty members.

PBL Coordinator—Ms. Chinnu Ravi

PBL Topic: A real world JAVA application

Develop a micro-project with the idea of creating structural and behavioral UML diagrams, which can help them to get an overall idea of different modules of application. The team will present the idea with the diagrams and screenshot of the application with the code.

The Challenge— Design a real-world application! This activity asks students to design and illustrate the pictorial and the implementation of an application at the micro-project level. The main challenge is in the database connectivity with the limited knowledge of databases so, the students are advised to create web pages with limited updating operations. Students will get an opportunity to learn about application at the micro-project level.

Objective— Create a real-world application in the micro-project level with UML diagrams and screenshots of web pages with limited updating.

Rules for Presentation—

1. The team must present the idea with a time span of 15 minutes.
2. The division of presentation among the members is necessary.
3. The copy of the presentation needs to be submitted.
4. Coordinators will be in the judging panel to assess the team.

Rubrics for assessing the overall PBL work include (but not limited to)—

1. **Presentation of the working of application** (presentation / adherence to the topic)
2. **Structural Representation** (module identification/class identification/use cases identification /with interaction)