

## **Project Development Cell (PDC)**

### **About PDC**

The Project Development Cell (PDC) at Coimbatore Institute of Technology (CIT) is established to create a centralized platform for learning, innovation, and collaboration among students and faculty across inter-college and intra-college communities.

The primary objective of PDC is to enhance the quality and impact of research and development projects undertaken by students and faculty members. By encouraging innovation, interdisciplinary collaboration, and industry engagement, the cell aims to bridge the gap between academic learning and real-world technological challenges.

PDC provides opportunities for students to explore technology-driven solutions to real-world problems, build professional networks with CIT researchers and industry partners, and gain exposure to emerging technological domains.

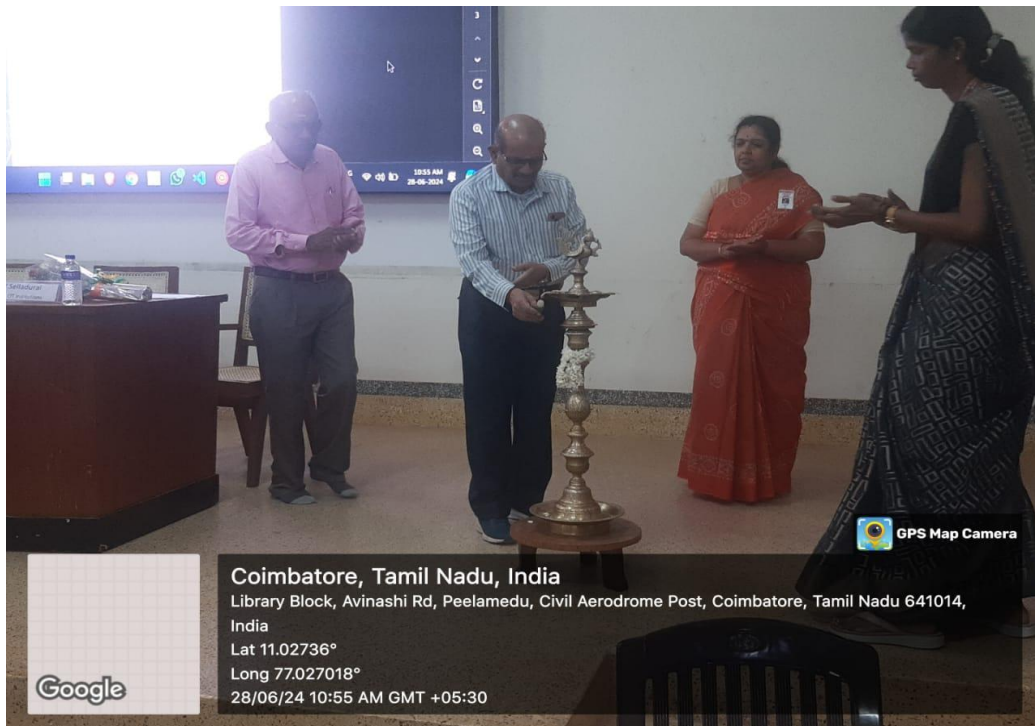
### **Internship Program**

The PDC Summer Internship Program offers intermediate and final-year students an opportunity to gain hands-on experience in real-world development and research projects. Interns work with experienced professionals, develop technical and professional skills, and collaborate with peers from various technical domains. The program helps students build industry exposure, confidence, and valuable professional networks for their future careers.

### **Benefits of Collaborating Your Research with PDC**

PDC provides a structured platform that supports innovative research, efficient project management, and interdisciplinary collaboration. It ensures projects meet institutional and regulatory standards while enabling flexible access to technical resources. The cell also assists researchers in publishing in reputed Scopus/SCI journals and filing patents, helping transform innovative ideas into impactful outcomes.

## PDC INAUGURATION



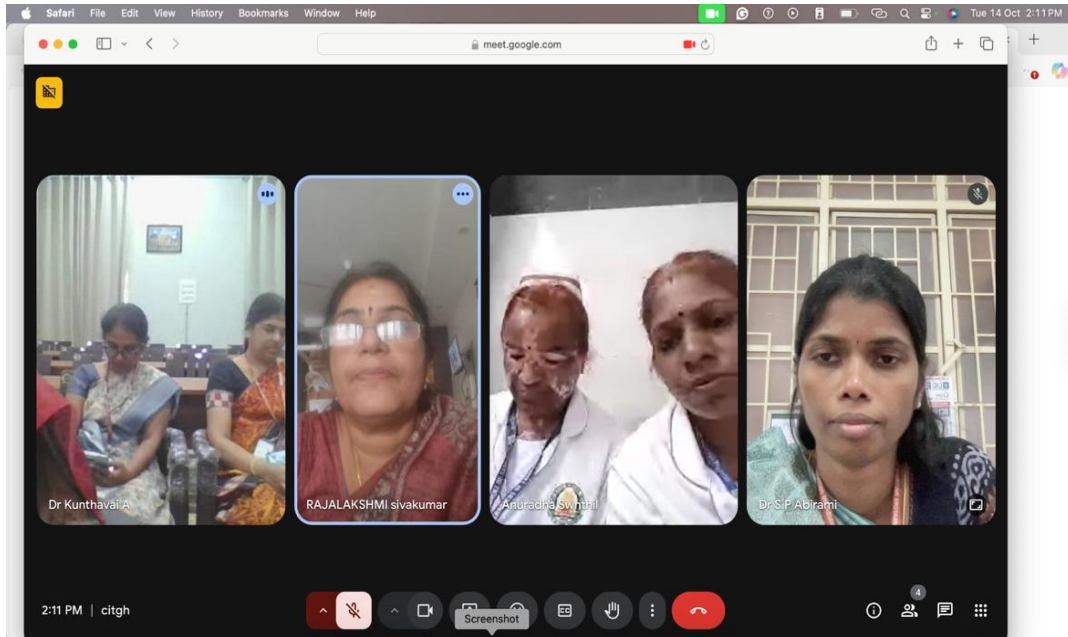
## Lifeline Hospital Digital AI Integrated Clinical App

Conceptualized, developed, and successfully deployed by CIT students, this sophisticated mobile application redefines hospital operations through an AI-driven, closed-loop digital healthcare ecosystem. The platform seamlessly integrates clinical workflows, administrative processes, and patient communication, enabling intelligent decision-making, real-time data orchestration, and enhanced care delivery. This project exemplifies the students' proficiency in crafting scalable, cutting-edge solutions with meaningful real-world impact in the healthcare domain.



## **POLLACHI GOVERNMENT HOSPITAL**

Mobile App for Real-Time Ward Monitoring and Reporting service in Government Hospital: In modern healthcare environments, efficient data management is essential for ensuring quality patient care. Government Hospitals (GH) often face challenges in handling large volumes of patient and ward-related information manually. To address this issue, a Mobile Application is developed to assist nurses in maintaining ward details and generating data-driven reports based on specific criteria. This application improves hospital efficiency by reducing errors, enabling real-time ward monitoring, supporting data-driven decisions, and saving nurses' time for better patient care.



**Aranpani- a non-profit organisation  
MUTTRUM OODHAL – Mobile App Development**

Developed and successfully deployed by CIT students, this mobile application digitizes hall booking for a non-profit spiritual organization. The solution ensures conflict-free scheduling, real-time updates, and improved communication through modern technologies like Flutter and Firebase. This project highlights students’ ability to deliver impactful, real-world digital solutions for community needs.

**TNAU**

The Product Development Cell (PDC) facilitated a collaborative project between CSE, CIT and TNAU from Dec 2024 to Feb 2025, focusing on weather-based blast disease prediction in rice crops. As part of this initiative, IInd Year CSE students successfully developed both a mobile application and a web-based platform for real-time disease monitoring and prediction. This program enhanced practical skills, interdisciplinary learning, and innovation in applying technology to agricultural challenges.

Project Title	Student Name
Mobile App Development for Weather Based Blast Disease Prediction in Rice	Harish vardhan D
	Farhan Abdul Hakkim

Crops	Kaviselvan J
	Akiladithya R
Web App Development for Weather Based Blast Disease Prediction in Rice Crops	Dhinesh kumar S
	Dhinesh Raj A
	Yeshwanthraj G

### Mobile App Development for Weather Based Blast Disease Prediction in Rice Crops



### Web App Development for Weather Based Blast Disease Prediction in Rice Crops

