

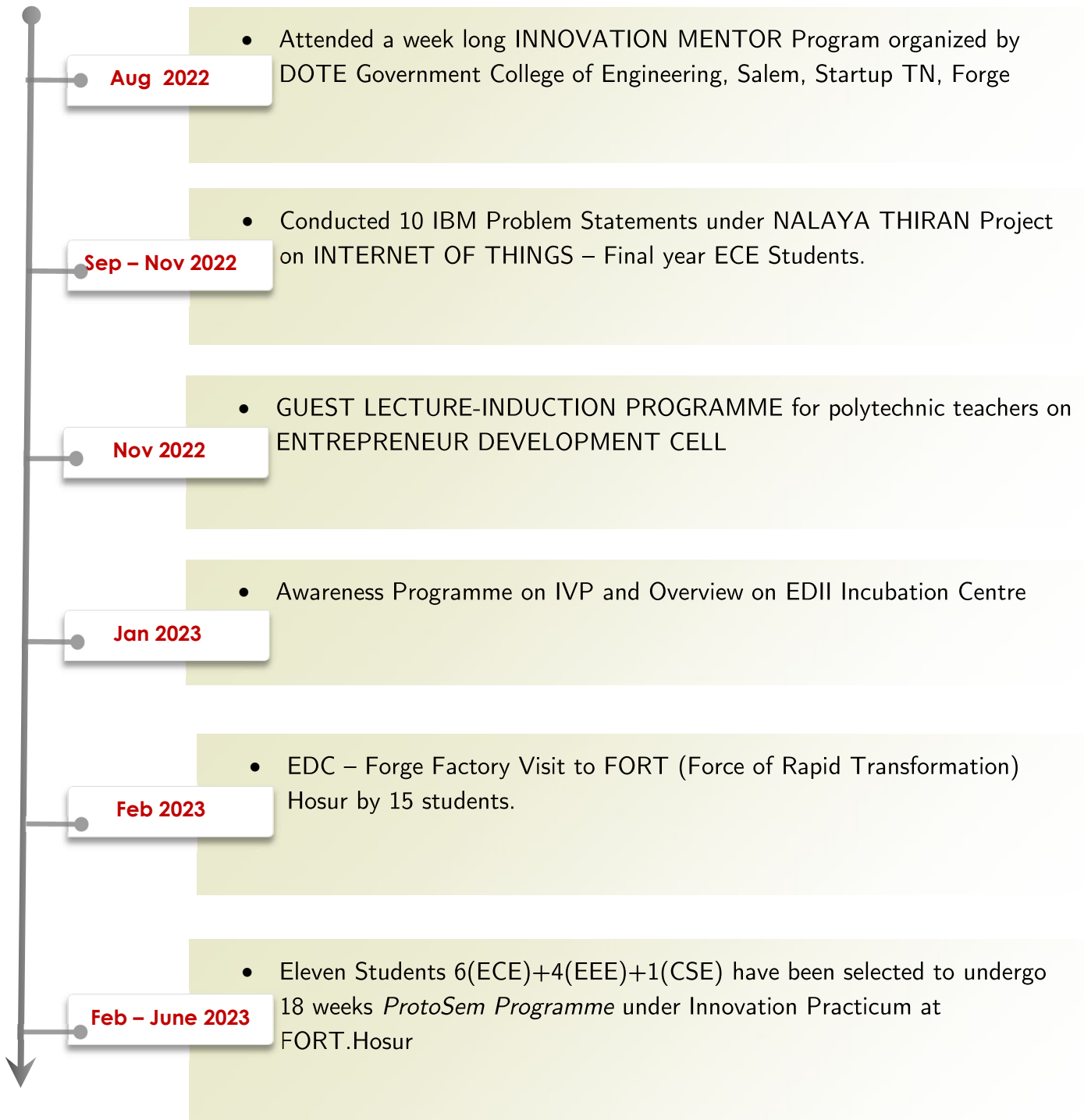
ENTREPRENEURSHIP DEVELOPMENT CENTRE GOVERNMENT COLLEGE OF ENGINEERING DHARMAPURI

Report 2022-2023

Mission & Objective:

To develop a startup ecosystem that would impart the necessary skill development for product conceptualization to prototype development using additive manufacturing process.

EDC Timeline



1. INNOVATION MENTOR Programme

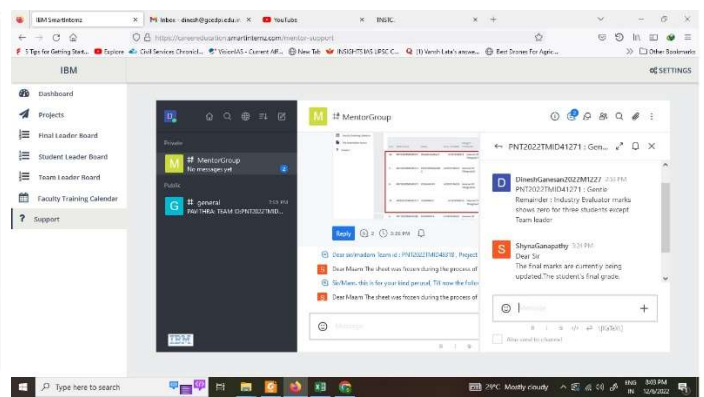
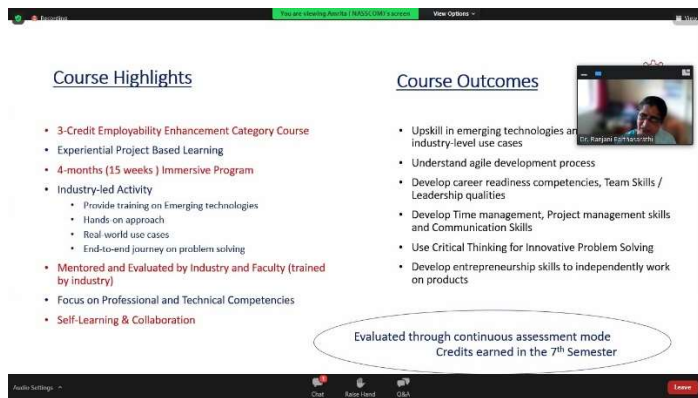
- One week mentor training programme on startup, Ideas worth Prototyping, Innovation Sandbox and Handbook, how to pitch and presentation, IPR and drafting patents.
- Workshop on rapid prototyping and Innovation centric learning pedagogy was demonstrated.
- One industry ready problem was given to analyse and develop feasible solution.
- Venue : GCE , Salem
- Date : Aug 1- 5 2022



2. 12 IBM Problem Statements under NALAYA THIRAN Project :

The following 12 problem statements were implemented under Project Based Learning – 100 hrs.
(4 Months)

- 6 hours of Agile Training and 2 hours of Design Thinking
 - 40 hours of Technology Training
 - 40 hours of Project Development
 - 10 hours of Self-Learning
1. Smart Waste Management System For Metropolitan Cities
 2. Signs with Smart Connectivity for Better Road Safety
 3. Smart Farmer - IoT Enabled Smart Farming Application
 4. Real-Time River Water Quality Monitoring and Control System
 5. Hazardous Area Monitoring for Industrial Plant powered by IoT
 6. IoT Based Smart Crop Protection System for Agriculture
 7. IoT Based Safety Gadget for Child Safety Monitoring and Notification
 8. Smart Solutions For Railways
 9. Hazardous Area Monitoring for Industrial Plant powered by IoT
 10. Industry-specific intelligent fire management system
 11. Gas Leakage Monitoring and Alerting System
 12. Deep Learning Fundus Image Analysis for Early Detection of Diabetic Retinopathy



3. GUEST LECTURE-INDUCTION PROGRAMME for polytechnic teachers on ENTREPRENEUR DEVELOPMENT CELL

Venue: Faculty Development Training Centre, Government College of Technology, Coimbatore

Date: 02.12.2022 from 11:00am to 12:30pm

Talk on the following themes were shared

- Entrepreneurial mindset.
- Out of box thinking.
- Developing a prototyping lab.
- Funding Opportunities for startup.



4. Awareness Programme on IVP and Overview on EDII Incubation Centre

Date of meeting: 04/01/2023 11.00 AM **Place of meeting:** Online Zoom Meeting

- Introduction on Innovation Voucher Programme – Voucher A (Idea to Prototype) Till 2 Lakhs Voucher B (Market Support) Till 5 Lakhs.
- Tamil Nadu Student Innovator Award for students - An annual innovation challenge.
 - Brief on the four stages of the challenge.

5. EDC – Forge Factory Visit to FORT (Force of Rapid Transformation) Hosur

- Twelve students have visited Forge FORT. Hosur as part of Industrial Visit to gain initial exposure to the state of the art facilities at the SIPCOT INNOVATION ECOSYSTEM. Hosur.



6. Eleven Students - 18 weeks *ProtoSem Programme* under Innovation Practicum at FORT. Hosur

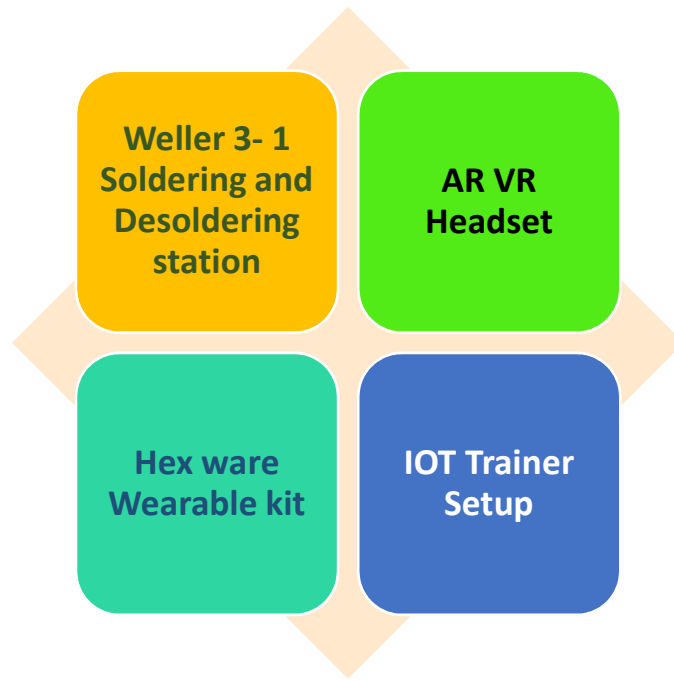
Place of Internship: FORT. Hosur

Date: Feb 15 – July 15 2023.

- Multidisciplinary team were formed and imparted with necessary interdisciplinary skills on cutting edge technology like 2D, 3D Drawing and Fabrication, PLC, UI/UX Interface, Embedded and IOT, Machine Learning.
- Various industry problem statements from M/s TITAN, Elakeyam, Augsense, MicroCNC were introduced to the students during the semester and trained to developing working MUP (Minimum Usable Prototype) and MVP (Minimum Viable Product) generation.



Additional Resource Availability:



EDC COORDINATOR
Dr. Dinesh G. AP/ECE

HOD/ECE
Dr. Ameena Bibi ASP/ECE