PANIMALAR ENGINEERING COLLEGE

An Autonomous Institution
Affiliated to Anna University, Chennai

Presents

PEC
TECHATHON 1.0

- *Innovation beyond Imagination*

POWERED BY

cognizant®

on

September 25th & 26th 2023

Register Here: *https://pectechathon.netlify.app/*

IEEE COMPUTER SOCIETY OF INDIA ESTD. 1965 INSTITUTION'S INNOVATION COUNCIL (Ministry of Education Initiative) **acm** *CODERS FORUM*

College Profile

Panimalar Engineering College, a Christian Minority Institution of Higher Education governed by JAISAKTHI Educational Trust aims at imparting quality engineering education for the aspiring youth.

The College is accredited by the National Board of Accreditation (NBA) in New Delhi, approved by the All India Council for Technical Education (AICTE), and recognized by the University Grants Commission (UGC) with 12(B) & 2(f) status. The Trust established Panimalar Engineering College in 2000, aligning with the government of Tamilnadu's policy to prioritize meeting the demand for skilled engineers for various industrial and development projects within Tamilnadu and across India.

The college maintains high standard of education by providing a wide array of world class of academic facilities, employing highly qualified and experienced faculty members and creating an ambience conducive of quality education.

Purpose of PEC - Techathon 1.0

The PEC - TECHATHON 1.0 focuses on addressing specific problem statements across diverse domains. The goal is to develop practical solutions that can have a positive impact on society, industries, or specific communities. By providing problem statements with real-world relevance, the hackathon encourages participants to work on projects that can lead to tangible outcomes and implementations.

Overall, the hackathon aims to inspire participants to think outside the box, collaborate effectively, and apply their skills and creativity to develop solutions that can make a difference. It creates an exciting and dynamic environment where participants can showcase their talents, learn from one another, and contribute to meaningful problem-solving.

Problem Statement

🌐 Network and Technology Monitoring

1. **Dashboard for availability of Cloud Containers** including CPU/Memory/IO, reading open telemetry stream

2. **App on phone to Measure Wifi Strength** inside home

3. **5G signal strength dashboard** based on the connection parameters, and available towers

4. **Auto classification of customer problems** into telecom customer service categores
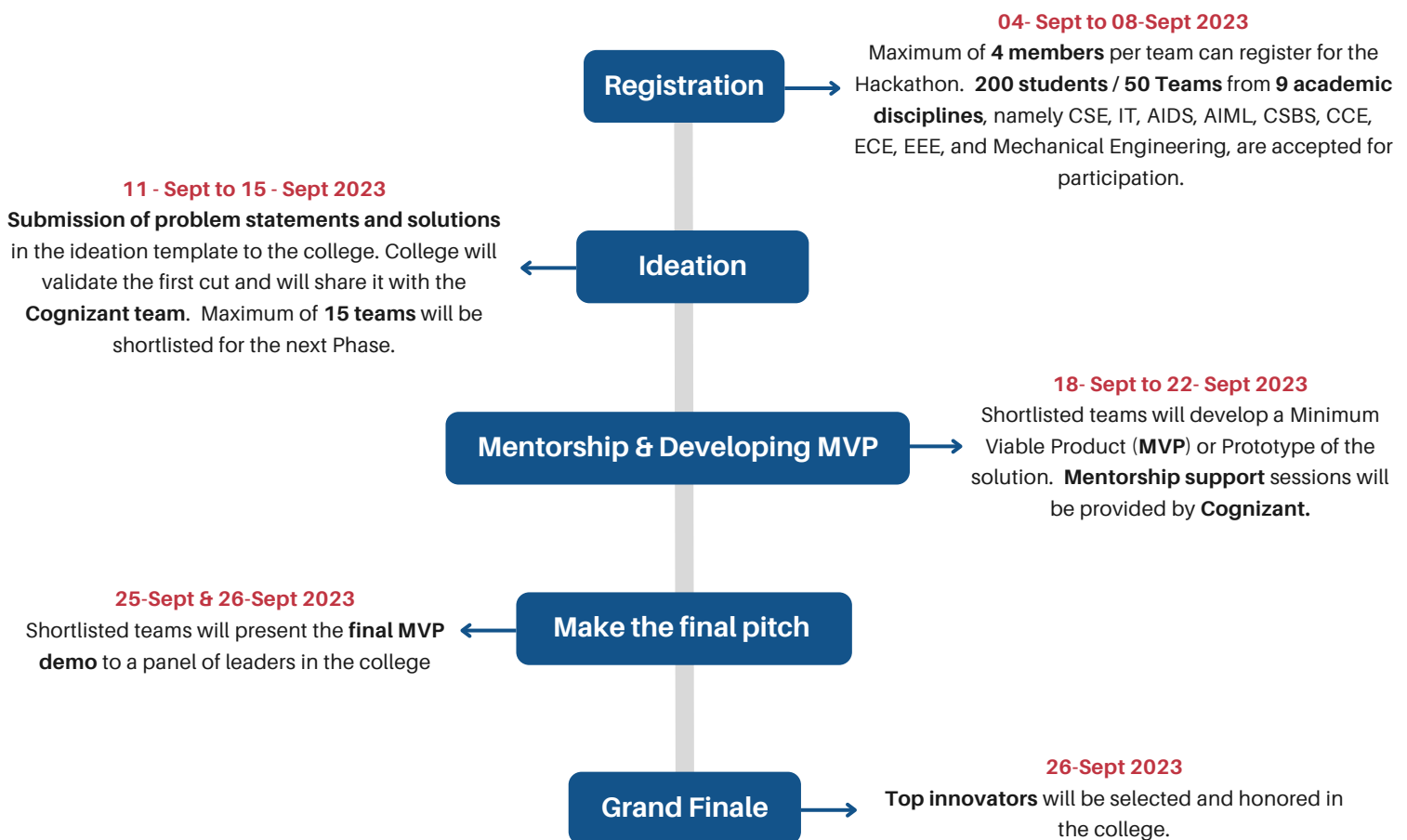
❤️ Health and Wellness

1. **Medication tracker:** A mobile application that helps patients keep track of their medications and reminds them to take their doses on time.

2. **Symptom checker:** A web application that allows users to enter symptoms and get a list of potential conditions, along with basic information on each. With the use of NHS / WebMD free API support, we can get the required information.

3. **ML for Predicting Heart Disease:** A binary classification model that predicts the probability of a patient having heart disease based on various risk factors.

4. **ML for Fall Detection:** A binary classification model that predicts the likelihood of an elderly patient falling based on various physical and environmental factors.

5. **Mental Health Game:** A mobile or web game that focuses on improving mental health through mindfulness and relaxation techniques. This can be integrated with the You Tube Videos for the various types of exercise. NHS API can be used.

6. **Exercise Game:** A mobile or web game that encourages physical activity and provides a fun way to exercise. This can be integrated with the You Tube Videos for the various types of exercise.

Hackathon Journey & Timeline

Registration

04- Sept to 08-Sept 2023
Maximum of **4 members** per team can register for the Hackathon. **200 students / 50 Teams** from **9 academic disciplines**, namely CSE, IT, AIDS, AIML, CSBS, CCE, ECE, EEE, and Mechanical Engineering, are accepted for participation.

Ideation

11 - Sept to 15 - Sept 2023
Submission of problem statements and solutions in the ideation template to the college. College will validate the first cut and will share it with the **Cognizant team**. Maximum of **15 teams** will be shortlisted for the next Phase.

Mentorship & Developing MVP

18- Sept to 22- Sept 2023
Shortlisted teams will develop a Minimum Viable Product (**MVP**) or Prototype of the solution. **Mentorship support** sessions will be provided by **Cognizant.**

Make the final pitch

25-Sept & 26-Sept 2023
Shortlisted teams will present the **final MVP demo** to a panel of leaders in the college

Grand Finale

26-Sept 2023
Top innovators will be selected and honored in the college.

PEC TECHATHON 1.0 | cognizant

Important Dates

• Registration	September 4 - 8, 2023
• Ideation	September 11 - 15, 2023
• Developing MVP	September 18 - 22, 2023
• Grand finale-36 Hours Hackathon	September 25 - 26, 2023
• Valedictory and Prize Distribution	September 26, 2023

Registration

For Registration: https://pectechathon.netlify.app/
For Queries Contact: +91 99627 23582, +91 86800 86215
Email Us At: peccsehackathon@gmail.com

Chief Patrons

Dr.P.Chinnadurai
SECRETARY & CORRESPONDENT

Mrs.C.Vijayarajeswari
DIRECTOR

Dr. C. Sakthi Kumar
DIRECTOR

Dr. Saranya Sree Sakthi Kumar
DIRECTOR

Patrons

Dr. K. Mani
PRINCIPAL

Mr. P N Anand Kumar
ASSOCIATE VICE PRESIDENT COGNIZANT

Mrs. Rophia Rose
SENIOR HR MANAGER COGNIZANT

Mrs.Sujithra Rajendran
HR EXECUTIVE COGNIZANT

Co-Patrons

Dr.L.Jabasheela
HOD - CSE

Dr.Kavitha Subramani
CONVENOR

Dr.V.Subedha
CONVENOR

Co-Ordinators

STAFF CO-ORDINATORS

Dr. P. J. Sathish Kumar M. Tech, Ph. D
Mr. A. Karthikeyan M. E, (Ph. D)

STUDENT CO-ORDINATORS

Rishab H
Raj Kumar B

PEC TECHATHON 1.0

cognizant