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CRITERION 3.2.1.

CARE Innovation Center
The following projects were developed in CARE Innovation Center.

Agricultural Drone for Surveillance and Mapping

M. Hasim Aslam & S. Shahid Afridi of 4th year Mechanical was designed Agricultural Drone for Surveillance and Mapping Under the guidance of Mr. M Antony Kingston , Assistant Professor of Mechanical Engg. during the Academic year 2022-2023. This tool is used for agriculture for spraying fertilizers and on later stage they have enhanced the Drone for Surveillance and Mapping of locations also.

Plastic Injection Moulding Machine for Small Scale Application

S. Venukanth & N.Parthasarathi of 4th year Mechanical was designed and fabricated the Plastic Injection Moulding Machine for Small Scale Application Under the guidance of Mr. M Antony Kingston , Assistant Professor of Mechanical Engg.

Plastic Injection Moulding Machine

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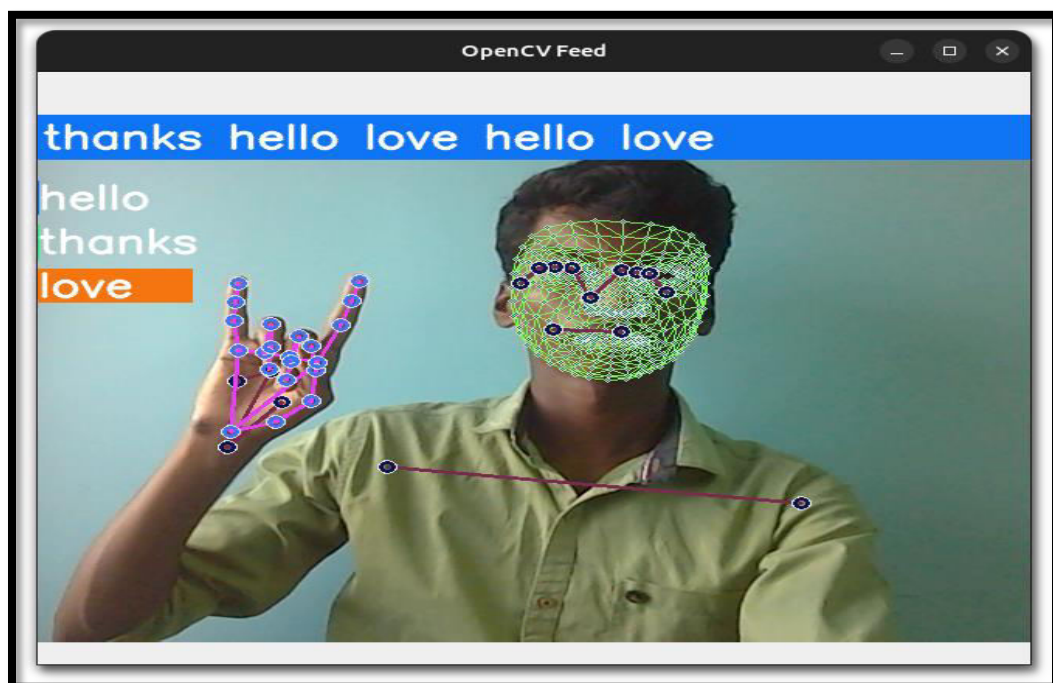**Mechanical Footstep Power Generator**

A.Madhavan, S.Hariharan, A.Pristan Raj Kumar and P.Naresh Prabhu of 3rd year Mechanical was designed and developed a Mechanical Footstep Power Generator Under the guidance of Dr. B Gobalakrishnan, Assistant Professor of Mechanical Engg. This is a stationary device, the electric power is generated by Walk or Run on the foot step available on the device.


Foot Step power Generating Device

Sign Language Recognition with Deep Learning Techniques

G.Gopinath, R.Madhan Prakash, Ram Chandhar, K.E. Sreehar of 4th Year CSE was developed a product for Sign Language Recognition system for people with special needs.

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Real Time Landslide And Flood Monitoring

Adithya. P, Ajay Kumar. K, Gunasekaran. S, Rajarajeswari. S of ECE was designed Real Time Landslide And Flood Monitoring Using IOT under the guidance of Ms. M Shiva shankari, Assistant Professor of ECE during AY 2022-23. This was used to measure the movement of soil, soil moisture and provide early warning.
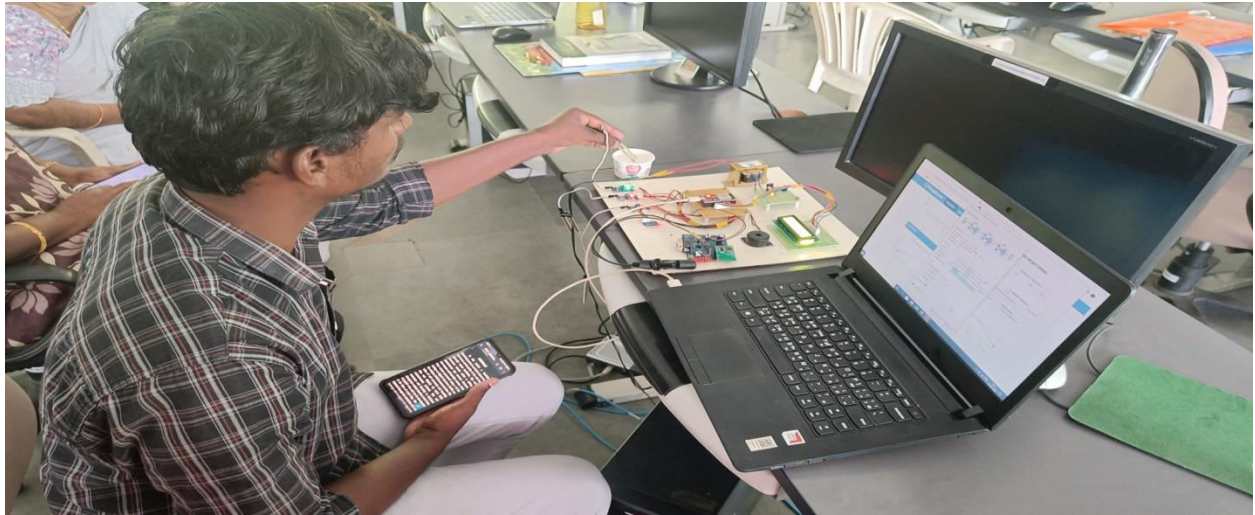
Design And Implementation of a User-Friendly Smart Mirror For Enhanced Home Automation And Information Display

Citybabu.M , Dhinakaran.S, Nishanth.K , Vijei R of ECE was designed and Implementation of a User-Friendly Smart Mirror For Enhanced Home Automation And Information Display Using IOT under the guidance of Mr. S Sriram Sundar, Assistant Professor of ECE during AY 2022-23. This smart mirror was used to control the home appliances.

CRITERION 3.2.1.

HACKATHON

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Proudly Hosts

SDG HACKATHON

in association with

NATIVELEAD
Nurturing Nativepreneurs

HAND IN HAND ACADEMY
FOR SOCIAL ENTREPRENEURSHIP

VERITAS

SUSTAINABLE DEVELOPMENT
SOLUTIONS NETWORK

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SDG HACKATHON
REPORT
(27.05.2023)

CARE
COLLEGE OF ENGINEERING

One Day SDG Hackathon

Agenda - 27th May 2023

9.00 – 9.30 am	Registration
9.30 –9.40 am	Welcome Address
9.40 – 9.50 am	Chief Guest Address 1
9.50 - 10:00 am	Chief Guest Address 2
10:00 - 10:10 am	Hackathon Introduction
10:10 - 11:00 am	Announcement of Problem Statements
11.00 – 1:00 pm	Time For Student Teams To develop Solutions
1:00 - 1:45 pm	Lunch Time
1:45 - 3:00 pm	Time For Student Teams To develop Solutions
3.00 – 05.30 pm	Presentation of solutions on students teams to Jury
5.30 - 06.30 pm	Announcement of winners, Distribution of Prizes, Certificates, Valedictory

Things to Carry:

1. Laptop
2. Pendrive
3. Water Bottle
4. Mobile Charger / Data Cable

NOTE:

1. Team members are restricted to 2 person per team.
2. Food & refreshments will be provided.
3. All Special requirements to be taken care on your own.
4. For further details contact

Sriram Sundar S
Event Coordinator

SDG Hackathon

Sustainable Development Goals (SDG) Hackathon is a one day Tech challenge organized by the CARE College of Engineering, Trichy in association with Native Lead Foundation, Hand in Hand Academy for Social Entrepreneurship, Veritas Finance and Sustainable Development Solutions Network on 27.05.2023.

About the SDG Hackathon

The SDG Hackathon refers to a hackathon event focused on addressing the United Nations' Sustainable Development Goals (SDGs). The SDGs are a set of 17 global goals adopted by UN member states in 2015, aiming to address major social, economic, and environmental challenges by 2030. The 17 sustainable development goals (SDGs) to transform our world are given below,

1. No Poverty
2. Zero Hunger
3. Good Health and Well-being
4. Quality Education
5. Gender Equality
6. Clean Water and Sanitation
7. Affordable and Clean Energy
8. Decent Work and Economic Growth
9. Industry, Innovation and Infrastructure
10. Reduced Inequality
11. Sustainable Cities and Communities
12. Responsible Consumption and Production
13. Climate Action
14. Life Below Water
15. Life on Land
16. Peace and Justice Strong Institutions
17. Partnerships to achieve the Goal

An SDG Hackathon brings together individuals or teams from various backgrounds, such as software development, design, business, and subject matter expertise, to create innovative solutions that contribute to achieving the SDGs. Participants work intensively over a set period, typically a few days, to develop prototypes, apps, or other tech-based solutions that address specific SDGs or related challenges. The hackathon format encourages collaboration, creativity, and problem-solving, with the goal of creating tangible solutions that can make a positive impact in areas such as poverty alleviation, education, healthcare, clean energy, sustainable cities, and more. Participants often have access to mentors, workshops, and resources to support their development process.

SDG Hackathons provide a platform for individuals and teams to showcase their skills, engage in social entrepreneurship, and contribute to global sustainable development efforts. These events promote cross-disciplinary collaboration and foster a sense of urgency and innovation in tackling complex societal issues. By leveraging technology and the power of collective intelligence, SDG

Hackathons play a vital role in fostering creative solutions and driving progress towards a more sustainable future

In the SDG Hackathon 15 teams from various colleges were participated. Cash prizes awarded to 3 teams by Hand in Hand Academy for Social Entrepreneurship

I Prize – INR 5000

II Prize – INR 3000

III Prize – INR 2000

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TECH HACKATHON 2023

REPORT

(31.03.2023 & 01.04.2023)

Tech Hackathon 2023

Tech Hackathon 2023 is a 30 hours Tech challenge organized by the CARE College of Engineering, Trichy, Tamilnadu in collaboration with StartupTN, Google Developer Community, Madurai and Modelon, Trichy from 31.03.2023 10.00 am to 01.04.2023.

Tech challenge is a platform where like-minded students can solve the real time problems faced by the society. These problems solution enable the people to get quality of livings. This Hackathon helps the students to solve problems and step up the technical world.

The following thrust areas were identified Tech Hackathon 2023 and

- Artificial Intelligence
- Data Science
- Blockchain
- Data Analytics
- Image Processing

Problem Statements

1. PS 1 - Build an application to check in-patients in primary healthcare centers with an admin dashboard for district health officials.
2. PS 2 - Build a Platform for District Police to Track the Migrant Workers.
3. PS 3 - Build a Platform for the District Health Department to Organise Digital Health Camps.
4. PS 4 - Develop a feedback management portal for tracking customer feedback
5. PS 5 - Build a platform for doctors to discuss high risk patients cases with integrated chat features.
6. PS 6 - Build a Platform to predict renewable power based on open-source weather information.

52 teams were applied for the event across Tamilnadu and 19 teams were shortlisted to attend the Tech Hackathon 2023 Grand Finale Event.

Problem Statements	Count
PS 1 - Build an application to check in patients in primary healthcare centers with an admin dashboard for district health officials	12
PS 2 - Build a platform for District police to track the migrant workers	14
PS 3 - Build a platform for the District health department to organise digital health camps	2
PS 4 - Develop a feedback management portal for tracking customer feedback.	12
PS 5 - Build a platform for doctors to discuss high risk patients cases with integrated chat features	8
PS 6 - Build a Platform to predict renewable power based on open-source weather information	4
Grand Total	52

Out of 19 shortlisted teams, 17 teams attended the Grand Finale.

| Problem Statements	Count
PS 1 - Build an application to check in patients in primary healthcare centers with an admin dashboard for district health officials	2
PS 2 - Build a platform for District police to track the migrant workers	7
PS 4 - Develop a feedback management portal for tracking customer feedback.	3
PS 5 - Build a platform for doctors to discuss high risk patients cases with integrated chat features.	2
PS 6 - Build a Platform to predict renewable power based on open-source weather information	3
Grand Total	17

Evaluation process done by both Internal and External juries and 50% weightage is given for both.

Our External Juries are,

- Mr. J. Saravanan, Business Manager, Trichy Agribusiness Incubation Forum, Agricultural University, Coimbatore
- Dr. Suvek Bala, CEO, EDII - Anna Business Incubation Research Foundation, Anna University, BIT Campus, Trichy
- Mr. M. Sivakumar, CTO and Founder, Ariviya Deep Tech Pvt Ltd, Thanjavur

Prize Money ₹50000 is awarded 5 winning teams each from one problem statement (₹50000 for each team) and Seed Money ₹50000 will be given to scalable idea.

Sl. No.	Table	Team Name	College Name	Team Lead Name / Year / Department	Problem Statement	No. of Team Members
1	11	Web Wizards	SRM TRP Engineering College	Harivarsha P / III Year/ CSE	PS 4	3
2	4	Medi - Link	Saranathan College of Engineering	Shalik Ahmed S / III Year / CSE	PS 5	3
3	10	Techies of Trichy	Trichy Engineering College	Madhavan K M / III Year / CSE	PS 2	3
4	3	Energy predictor	SRM TRP Engineering College	Narendra prasad.M/ II Year /CSE	PS 6	3
5	9	Code Hunters	SRM TRP Engineering College	Siva Bharath K. S / III Year / CSE	PS 1	3
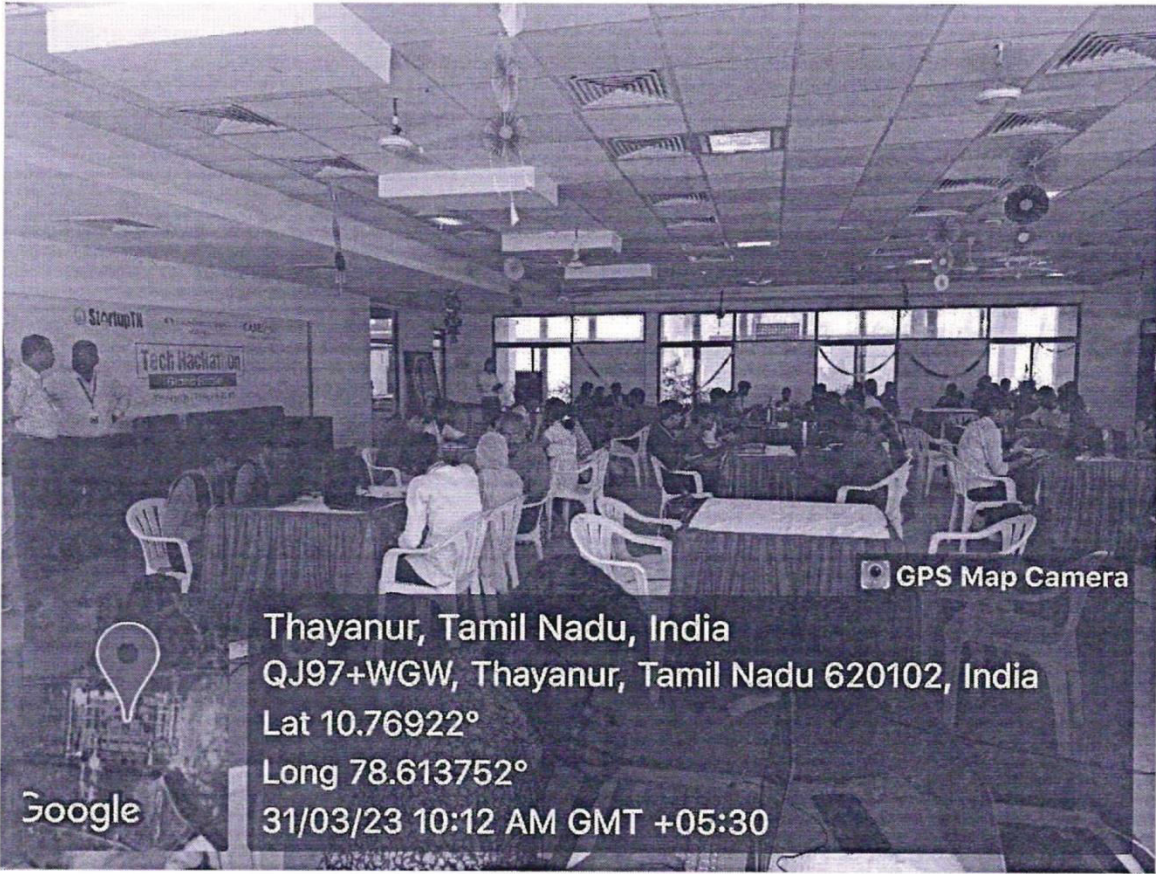
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QJ97+WGW, Thayanur, Tamil Nadu 620102, India
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Long 78.613752°
31/03/23 10:12 AM GMT +05:30

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Long 78.613752°
31/03/23 10:19 AM GMT +05:30

Tech Hackathon
Ground Finale
31st M...... April, 2023