



IIC Annual Report 2023-24

Vision / Mission of IIC established at the Institute

Vision Statement

“To promote Entrepreneurship culture and to cater this as an ecosystem in the Institute and to encourage, inspire and nurture young students by supporting them to work with new ideas and transform them into a start-up”

Mission Statement

“To develop a system with required infrastructure that can enable students and faculty to innovate and prototype their ideas with industrial standards and support from Government, industry and reputed academic institutions around all parts of the country and help them to realize their potentials”

Objectives of IIC

- ❖ Students/Faculty associated with IIC will have exclusive opportunity to participate in various Innovation related initiatives and competitions organized from institution level to national level.
- ❖ Meet/Interact renowned Business Leaders and top-notch academicians.
- ❖ Opportunity to nurture and prototype new ideas.
- ❖ Mentoring by Industry Professionals.
- ❖ Organize periodic workshops/ seminars/ interactions with entrepreneurs, investors, professionals and create a mentor pool for student innovators.
- ❖ Create an Institution’s Innovation portal to highlight innovative projects carried out by institution’s faculty and students.

Journey of IIC established at the Institute

The Institution Innovation Council (IIC) was established in the year 2018. The journey of IIC at our institute is very inspiring. The internal members, faculty and students are continuously exploring for ideas and are motivated through different activities as listed in “My calendar Activity” of the institute. The external members including the industry representative and the entrepreneur also add value to the initiatives. Through the council meeting all had given insights on effective implementation of IIC activities and attainment of vision and mission of our IIC. The institute is taking many measures in bringing together with the IIC to develop entrepreneurial ecosystem.

Diversified representation in the IIC

Sr. No.	Name of Member	Member Type (Teaching/ Non-teaching / External Expert)	Key Role/ Position assigned in IIC
1.	Dr.N.Mohana sundara raju	Teaching	President
2.	Dr.S.Balamurugan	Teaching	Convener, NIRF coordinator
3.	Mr.K.Prasadbabu	Teaching	ARIIA Coordinator
4.	Dr.M.Suganthi	Teaching	Convener, Member
5.	Dr. Lilly Beaulah	Teaching	IPR activity coordinator
6.	Dr.S.Rajalakshmi	Teaching	Start-up activity coordinator
7.	Dr.T.Akila	Teaching	Social Media coordinator
8.	Dr.R.Anand	Teaching	Internship coordinator
9.	Dr.R.Nandhakumar	Teaching	Innovation activity coordinator
10.	Mr.M.Govindaraj	Teaching	EDC coordinator
11.	Mr.N.K.Saravanan	External Expert	Expert from nearby Industry
12.	Mr.C.Manivannan	External Expert	Startup Entrepreneur
13.	Mr.V.M.K.Udhayakumar	External Expert	Bank
14.	Ms.V. Nandhini	Student	Innovation activity coordinator
15.	Ms.A. Mohanapriya	Student	Innovation activity coordinator
16.	Mr.S.Kalaiyaran	Student	Innovation activity coordinator
17.	Mr.Sujithpriyan	Student	Innovation activity coordinator
18.	Ms.R.Anusuya	Student	Start-up activity coordinator
19.	Mr.G.Mahilan	Student	Start-up activity coordinator
20.	Mr.M.Mohammed Refai	Student	Start-up activity coordinator
21.	Mr.T.Poornesh	Student	Start-up activity coordinator
22.	Mr.B.Sivabharath	Student	Internship coordinator
23.	Ms.A.Aarthi	Student	Internship coordinator
24.	Mr.R.Arjun	Student	Internship coordinator
25.	Mr.D.Divin	Student	Internship coordinator
26.	Ms.N.Muhilaa	Student	Social Media coordinator
27.	Mr.P.Elanchezhiyan	Student	Social Media coordinator

28.	Mr.P.Hariram	Student	Social Media coordinator
29.	Mr.L.Nandhakumar	Student	Social Media coordinator
30.	Mr.S.Pragaladhan	Student	IPR activity coordinator
31.	Mr.S.Vasanth	Student	IPR activity coordinator
32.	Mr.R.Agilan	Student	IPR activity coordinator
33.	Mr.A.Akilan	Student	IPR activity coordinator
34.	Mr.S.Dominikraj	Student	Member
35.	Mr.S.Kowsigan	Student	Member
36.	Mr.K.Vallarasu	Student	Member

Key functionaries at the IIC Institute

Roles and responsibility of President:

The President will constitute the IIC council and appoint its members. He is responsible for ensuring that Quarterly Council Meeting is planned effectively. Conduct Council Meeting in accordance with prescribed rules and that matters are dealt with in an orderly, efficient manner.

- ✓ Will lead the IIC Council.
- ✓ To have the IIC portal Login ID and will be the custodian of IIC portal login and data/reports uploaded therein.
- ✓ To call the meetings, set meeting agenda and will monitor the deliverable.
- ✓ Be the main point of contact with MHRD Innovation Cell.
- ✓ To respond to all communication from IIC National Coordination team (MHRD Innovation Cell) and will be responsible to ensure decent performance of IIC.
- ✓ To coordinate with MHRD innovation cell and responsible for all the IIC activities in the institute.
- ✓ To ensure Institution's participation in IIC calendar activity and take lead in the institution driven activities (own initiatives).
- ✓ To ensure the effective implementation of IIC activities with the help of Convenor.
- ✓ Authority to change the council members as per the decision taken in council meetings and update the information on portal.
- ✓ Will be responsible for submitting the monthly progress/activity reports on the IIC portal.

Roles and responsibility of Convenor:

The Convenor will work in close coordination with IIC president and will provide help wherever required for smooth conduction of activities.

- ✓ To ensure the participation in the meeting and will prepare the meeting agenda at least 10 days earlier to meeting with the inputs from all valuable council members and President.
- ✓ To ensure that the internal examination dates would not interfere with the IIC activities and coordinate with all departments to ensure the same.
- ✓ To collect the inputs from all the members of the council at regular interval, especially external members for better planning of IIC activities and effective delivery of results.

Roles and responsibility of Coordinators:

- ✓ To promote innovation related activities on campus or as mandated in IIC council meeting.
- ✓ To boost startup generation among students and related activities or as mandated in IIC council meeting.
- ✓ To arrange student internships in startups, so to expose them with startup ecosystem in the Institute and the real-life challenges in startup and their success stories or as mandated in IIC council meeting.
- ✓ To promote awareness about IPRs and conduct related activities on campus or as mandated in IIC council meeting.
- ✓ To create and manage IIC page/account on Facebook, and other relevant social media platforms and will be responsible for posting all the relevant information about council meeting resolution and action plan, IIC activities and follow/tag MIC/IIC page and posts on these platforms. And also to ensure that all students follow MIC/IIC page/account on social media to get first-hand information.

Representation of Resource strength

S.No.	Details	Total Nos.
1.	Total No. of IIC Members	36
2.	Total No. of IAs	10
3.	Total No. of faculty Mentors From Portal	28
4.	Pre-Incubation Units, If any	Nil
5.	Incubation Units, If any	Nil
6.	IP Facilitation Unit, If any	Nil

Clubs engaged in promotion of Innovation and Entrepreneurship in the campus

Events conducted through Entrepreneurship Development Cell:

Totally Five Entrepreneurship Awareness Camp (EAC) was conducted in the Institute with the funding support from EDII, Ahmadabad (Under DST-NIMAT Project)

Sr.No.	Event Name	Date
1.	Entrepreneurship Awareness Camp	27.08.2018 to 29.08.2018
2.	Entrepreneurship Awareness Camp	11.02.2019 to 13.02.2019
3.	Entrepreneurship Awareness Camp	30.01.2020 to 01.02.2020
4.	Entrepreneurship Awareness Camp	13.02.2020 to 15.02.2020
5.	Entrepreneurship Awareness Camp	05.03.2020 to 07.02.2020

Number of activities conducted for the calendar year

The following activities are completed to promote and induce entrepreneurship and innovation eco-system in the institute.

S.No.	Activity	Quarter
1.	Workshop on “Entrepreneurship and Innovation” as Career Opportunity	I
2.	My Story - Motivational Session by Successful Innovators	I
3.	My Story - Motivational Session by Successful Entrepreneur/Start-up founder	I
4.	Session on Problem Solving and Ideation Workshop	I
5.	Organise an Inter/Intra Institutional Idea Competition and Reward Best Ideas - Managed through XI/IZ/TFI NIP	I
6.	Mentoring Event: Demo Day/Exhibition/Poster Presentation of Ideas/PoC & linkage with Innovation Ambassadors/Experts for Mentorship Support -	I
7.	Navigating the Entrepreneurial Landscape: An Introduction to Innovation	I
8.	Human-AI Collaboration: Innovative Applications with Python	I
9.	Research Approach on Lung Cancer prediction using Support Vector Machine	I
10.	Skills Required for Entrepreneurs and Factors Affecting Entrepreneurs	I
11.	Innovation in Emotional Intelligence Skills	I
12.	Innovation in Design Thinking	I
13.	Workshop on Design Thinking, Critical thinking and Innovation Design	II
14.	Organising Innovation & Entrepreneurship Outreach Program in	II
15.	Organise an Expert talk on Process of Innovation Development, Technology	II
16.	Workshop on Entrepreneurship Skill, Attitude and Behaviour Development	II
17.	Conduct a Session on Achieving Problem-Solution Fit and Product-Market Fit	II
18.	Organise an Inter/Intra Institutional Innovation Competition and Reward Best	II
19.	Mentoring Event: Demo Day/Exhibition/Poster Presentation of	II
20.	AI-Driven Innovation Machine Learning Strategies for Success	II

21.	The Power of Networking: Leveraging Connections for Entrepreneurial Success	II
22.	From Idea to Prototype: Managing Pre-Incubation Processes Effectively	II
23.	Empowering developers with End-to-End Development expertise	II
24.	Mobile Application Development - An Entrepreneurial Opportunity	II
25.	Awareness on Entrepreneurship & StartUp	II
26.	AI Model Adaptation to Support Machine Learning and Development Research	II
27.	Workshop on Prototype/Process Design and Development.	III
28.	Session/ Workshop on Business Model Canvas (BMC)	III
29.	Session on “How to plan for Start-up and legal & Ethical Steps”	III
30.	Workshop on Intellectual Property Rights (IPRs) and IP management for start up	III
31.	Organize an Inter/Intra Institutional Business Plan Competition and Reward Best Innovations.	III
32.	Mentoring Event: Demo Day/Exhibition/Poster Presentation of Business Plans & linkage with Innovation Ambassadors/Experts for Mentorship	III
33.	A Two day workshop on “Mastering a Medical Equipment: A Comprehensive Guide for Hands-on Training and Troubleshooting Techniques”	III
34.	From Idea to Impact: Applying Design Thinking in Startups	III
35.	Session on “ Engineer to Entrepreneur -The Successful Path”	III
36.	Seminar on "Exploring the Frontiers of Generative AI and Large Language Models"	III
37.	Seminar on Pioneering AI: Transformative Innovations through machine learning	III
38.	Intellectual Property Rights (IPR) & Patents and Design filling	III
39.	Innovation on Problem Solving and Ideation	III
40.	Session on Innovation/Prototype Validation – Converting Innovation into a Start-up or Session on Achieving “Value Proposition Fit” & “Business Fit”	III
41.	Session on Accelerators/Incubation -Opportunities for Students & Faculties – Early-Stage Entrepreneurs	III
42.	Organize Session on “Lean Start-up & Minimum Viable Product/Business”- Boot Camp (or) Mentoring Session	III
43.	Session on Angel Investment/VC Funding Opportunity for Early-Stage Entrepreneurs.	III
44.	Session/ Panel discussion with innovation and Start-up Ecosystem Enablers from the region/state/national level	III
45.	Organizing Innovation & Entrepreneurship Outreach Program in Schools/Community	III
46.	Organize an Inter/Intra Institutional Start-up Competition and Reward Best Start-ups	IV
47.	Mentoring Event: Demo Day/Exhibition/Poster Presentation of Start-Ups & Linkage with Innovation Ambassadors/Experts for Mentorship Support	IV
48.	Biogenesis: Pioneering Biomedical Engineering Startups	IV
49.	Innovative Problem Solving: Applying Design Thinking Principles	IV

50.	Advancing Cyber security: Innovations and Future Challenges in Digital Protection	IV
51.	Seminar on Foundation Skills and Innovations in Python OpenCV	IV
52.	Webinar on “Building a Scalable Startup: Strategies for Long-Term Success”	IV
53.	Innovation on Industrial Internet of Things	IV
54.	Seminar on "Innovative Product Design Strategies for Entrepreneurial Success"	IV
55.	Mass Painting Initiative: Innovating Environmental Awareness and Entrepreneurship through Tree Plantation	IV

Achievements

S.No.	Details	Total Nos.
1.	Number and Different types of I&E and IPR activities Conducted	55
2.	No. of student’s & faculty ideas generated	18
3.	No. of student’s & faculty Innovation/prototypes developed	12
4.	No. of IPs generated, published and granted	1
5.	No. of Student & Faculty Start-ups/Ventures established.	03
6.	Amount spent on promotion and awareness generation on Innovation Entrepreneurship in the campus	1,80,000.00
7.	Amount grant or fund supported to student & Faculty lead Innovations, start-ups and IPR	1,00,000.00
8.	No. of Technology Transfer and Commercialization happened	Nil

Best IIC Faculty

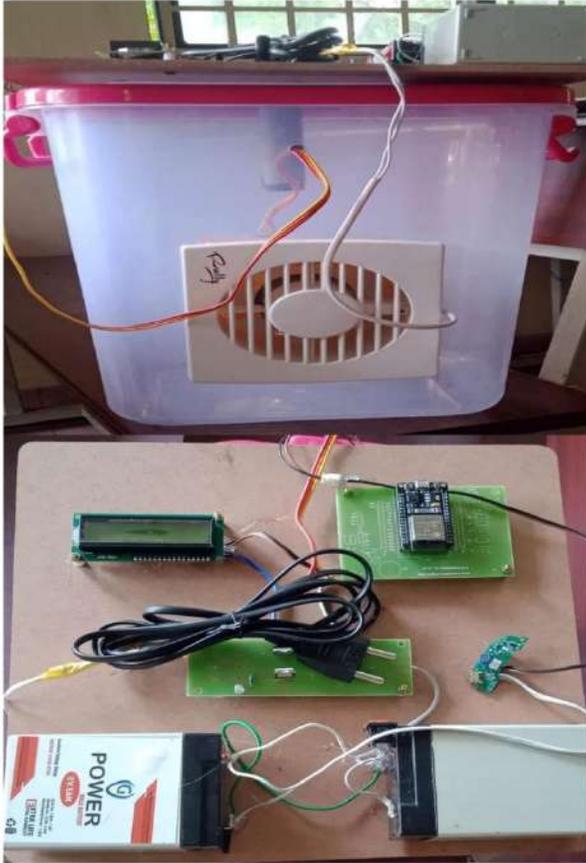
Mr.M.Govindaraj working as an Innovation Ambassador in the Institute takes the responsibility of implementing Entrepreneurship and Innovation culture as an ecosystem in the Institute.

His roles, responsibilities and recognition are:

- ✓ Completed successfully foundation Innovation Ambassador Training
- ✓ Completed successfully advanced Innovation Ambassador Training
- ✓ Responsible for conduct of IIC activities in the institute.
- ✓ To ensure Institution’s participation in IIC calendar activity and take lead in the institution driven activities (own initiatives).
- ✓ To ensure the effective implementation of IIC activities with all the faculty members.
- ✓ Responsible for submitting the monthly progress/activity reports on the IIC portal.

TAMILNADU SKILL DEVELOPMENT CORPORATION

Naan Mudhalvan Niral Thiruvizha



The Project titled "EcoDust Catcher - Innovative Atmospheric Dust Collector Prototype," by final year students G. Kalaiarasan, S. Pragaladhan, K. Velmurugan, and P.K. Tharaniarasan, has been shortlisted as one of the 1000 best projects in Tamil Nadu under the Naan Mudhalvan Niral Thiruvizha, (A Tamil Nadu Government Initiative) Scheme for the academic year 2023-24.



We are proud to announce that our third-year Mechanical Engineering students, Nitish S, Rohit Sabari R, Santhosh S, and Selvadavidraj G, have achieved remarkable success in the state-level Clay Sculpting Competition organized by the Institute of Industrial Design on 17.09.2022. Their outstanding creativity and skill in clay sculpting were recognized as they secured the Second Prize in the competition. This prestigious accomplishment comes with a cash reward of Rs 5000, highlighting the team's exceptional talent and dedication to the art form. Our Principal, Head of the Mechanical Engineering Department, and all staff members join in congratulating the team on this significant achievement.



Second-year Mechanical Engineering students, Mr. S. Srihariprasad and Mr. V. Manoj, have achieved an outstanding milestone in the "Ideas Are Made" (IAM) competition organized by the PEPHANDS Foundation. Out of a total of 1180 innovative ideas, their remarkable creativity and presentation skills have secured them a spot among the Top 50 Finalists. Their innovative ideation and exceptional presentation skills have been recognized in this highly competitive event, showcasing the ingenuity and talent of our students.

Start-ups established by students



Technology Developed at the Institute

- ✓ Centre for excellence related to IoT was developed in the Institute.
- ✓ 3D printing technology is available in the Institute to foster students to do research activities.
- ✓ With the availability of CNC technology the students are encouraged to do innovation in product design.
- ✓ Solar powered lamps were created in the campus to go for green energy concept.
- ✓ Supported students to carry out in making solar powered bi-cycle and battery powered electric car to induce the concept of green energy in the Institute.

Participation of IIC-institute in various programs

S.No	Details	Outcome
1.	NIRF	Rank: Participated
2.	NISP Adoption status	Trained Faculty: 1. Dr. N. Mohanasundararaju IIC - President 2. Mr. M. Govindaraj IIC - Innovation Ambassador Policies: Formulated and Implemented

3.	Smart India Hackathon	Totally four Hackathons were Conducted,			
		Sr,No,	Hackathon	Date	No.of students participated
		1	Hackathon 1	29.11.2022	140
		2	Hackathon 2	21.02.2023	105
		3	Hackathon 3	06.04.2023	125
		4	Hackathon 4	08.08.2023	100
		5	SIH-Internal hackathon	09.09.2024	150
<p>Hackathons encourage students to think creatively and come up with innovative solutions to real-world problems. This can help in developing a culture of innovation within the college. Participants typically acquire technical and problem-solving skills during hackathons. They may learn new programming languages, tools, and techniques, which can be valuable in their academic and professional careers. Hackathons are usually team-based events, and they promote teamwork and collaboration. Students learn to work effectively in diverse teams, which is an essential skill in the engineering field. Hackathons provide a practical and hands-on experience that goes beyond traditional classroom learning. Students can apply what they've learned in a real-world context. Participants are challenged to solve complex problems within a limited timeframe. This enhances their problem-solving abilities and adaptability. projects may have the potential to turn into startups or entrepreneurial ventures. Hackathons can serve as incubators for innovative ideas. Hackathons focus on solving real-world problems, which can have a positive impact on society. Students get a sense of purpose and fulfillment from contributing to meaningful projects.</p>					

Detail of Social Media &Connections of IIC institute

Facebook Link: <https://www.facebook.com/mahendrainstitutionsofficial/>

Testimonials from IIC members and external about IIC institute



புதுமை யோசனைகள் போட்டியில் இறுதிசுற்றுக்கு தேர்வு: மகேந்திரா பொறியியல் கல்லூரி மாணவர்களுக்கு பாராட்டு

சேலம், நவ.23-
சேலம் மகேந்திரா பொறியியல் கல்லூரியில் 2-ம் ஆண்டு பயிலும் எந்திரவியல் துறை மாணவர்கள் ஸ்ரீஹரி பிரசாத், மனோஜ் ஆகியோர் பெப்ஹண்ட்ஸ் அறக்கட்டளை சார்பில் நடத்தப்பட்ட

'ஐடியாஸ் ஆர் மேட்' என்ற போட்டியில் பங்கேற்றனர். மொத்தம் 1,180 புதுமையான யோசனைகளில் நடந்த இறுதிச்சுற்றில் இந்த கல்லூரி மாணவர்கள் இருவரும் சிறந்த விளக்க காட்சி திறனுடன் புதுமையான

யோசனையை வெளிப்படுத்தி முதல் 50 இறுதி போட்டியாளர்களில் தேர்வாகி வந்துள்ளனர். இந்த மாணவர்களை கல்லூரி முதல்வர் மோகனசுந்தரராஜூ, எந்திரவியல் துறை தலைவர் பாலமுருகன், உதவி பேராசிரியர்கள் கோவிந்தராஜ், பார்த்திபன், வகுப்பு ஆலோசகர் ஆகியோர் பாராட்டி வாழ்த்து தெரிவித்தனர்.

Images



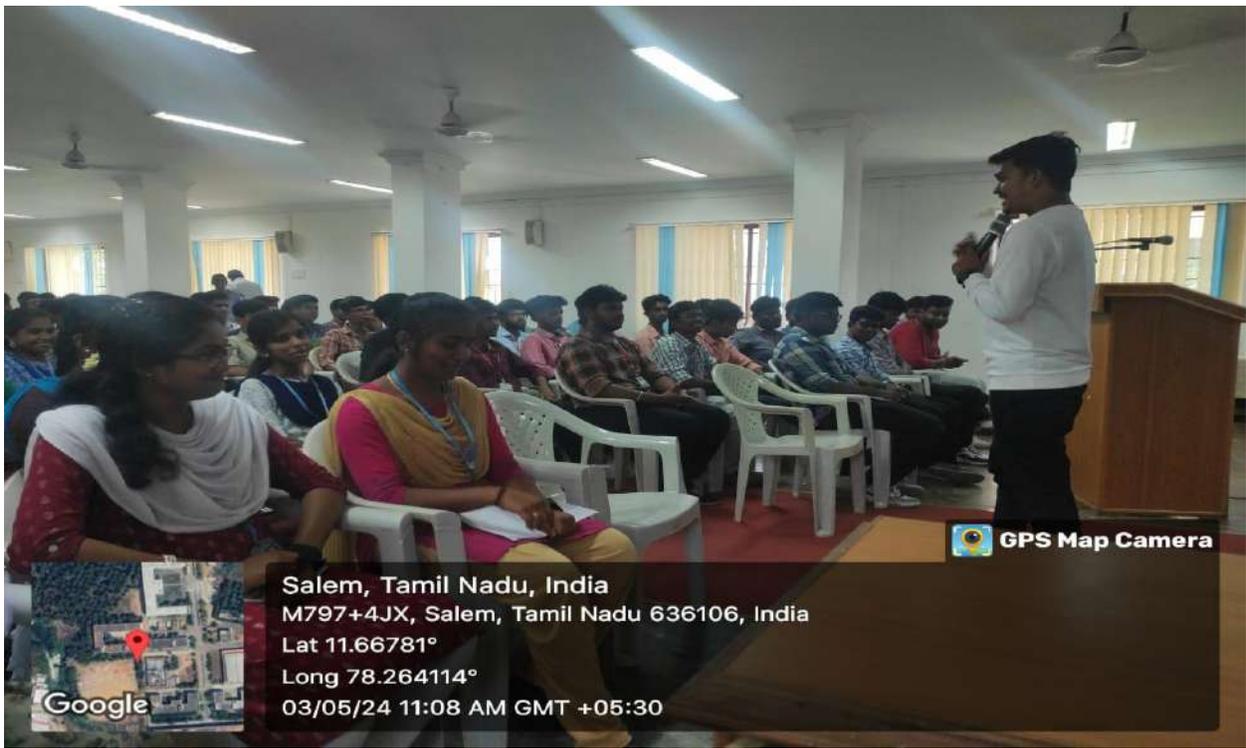




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GPS Map Camera



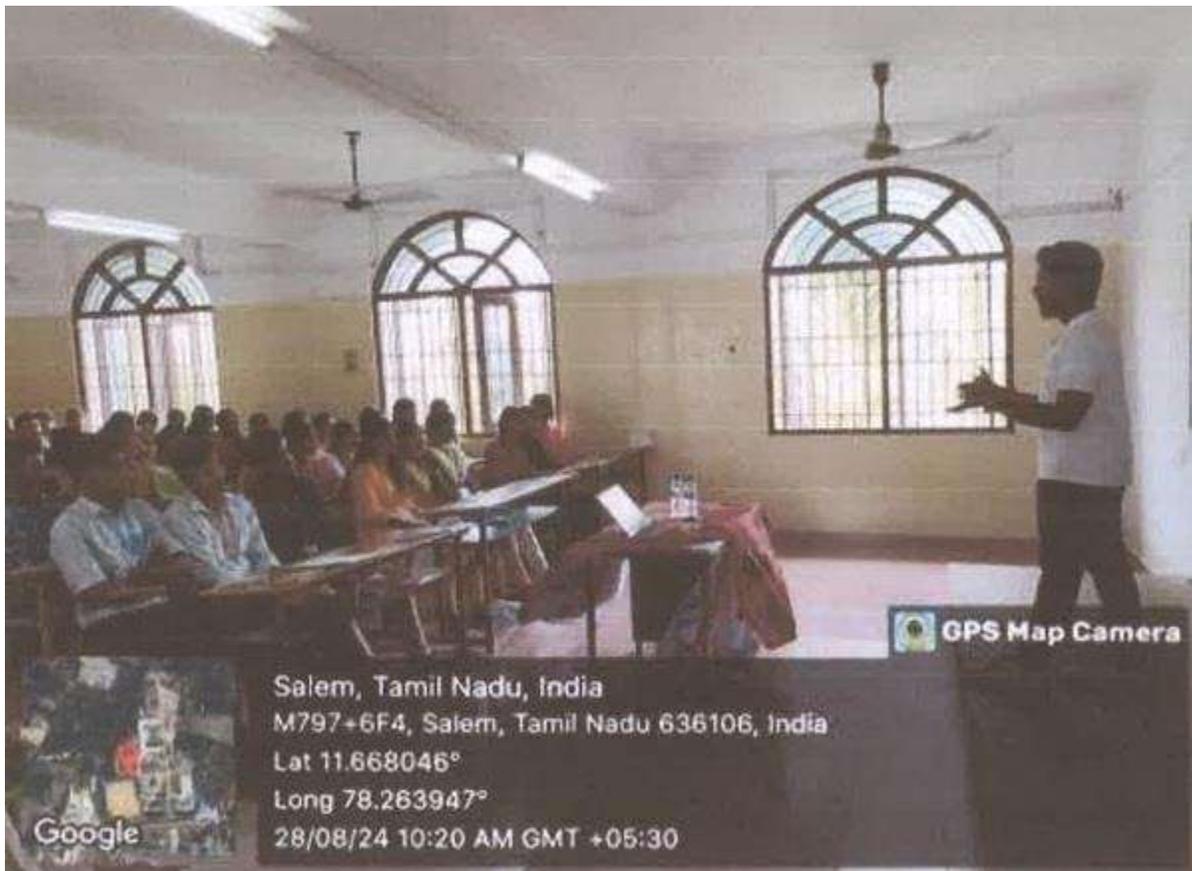
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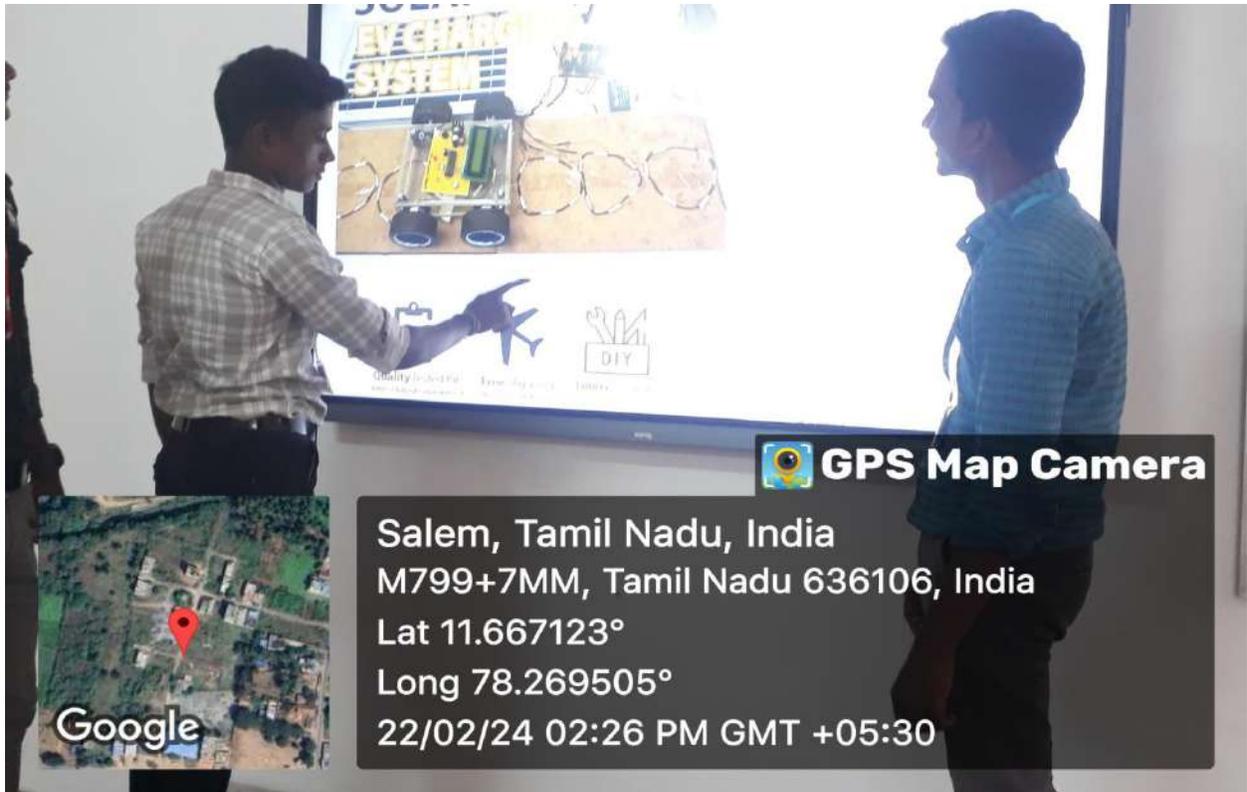
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