



DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING

3 Day Workshop on

“AI and 4.0 Tools for Innovators and Entrepreneurs”

Title : 3 Day Workshop on “AI and 4.0 Tools for Innovators and Entrepreneurs”

Date : 25th and 27th Nov 2025

Time : FN: 10:00 AM – 12:00 Noon AN: 1.00 PM – 3.00PM

Venue : NEC Lab, AVIT, Chennai Campus

Organized By: Department of Computer Science and Engineering & Institution Innovation Council

Resource Person:

Day 1 – 25th November 2025:

- Dr. S. Balakrishnan, Professor & Head, Dept. of CSE, AVIT
- Dr. S. Pitchumani Angayarkanni, Professor, Dept. of CSE, AVIT

Day 2 – 26th November 2025:

- Dr. K. Ramu, Professor, Dept. of CSE, AVIT
- Dr. M. Muthukumaran, Professor, Dept. of CSE, AVIT

Day 3 – 27th November 2025:

- Dr. Poonguzhali S, Professor, Dept. of CSE, AVIT
- Mr. B. S. Seshadri, Professor of Practice, Dept. of CSE, AVIT

Targeted Audience: I Year B.E Students

Category : IIC Activity

Objective of the Workshop:

The workshop aimed to introduce first-year engineering students to the foundational concepts of Artificial Intelligence and emerging Industry 4.0 technologies. It focused on enhancing innovation skills through creative use of AI tools, offering hands-on experience with digital platforms for design, research, and prototyping. Students were guided to apply user-centered design thinking supported by AI insights and encouraged to explore entrepreneurial opportunities by developing pitch-ready ideas. The sessions were structured to build technical confidence and inspire future-ready innovation.

About the Session

◆ Day 1 – 25th November 2025

- ***Session 1: Introduction to Artificial Intelligence and Industry 4.0***

Dr. S. Balakrishnan introduced students to the evolution and impact of AI and Industry 4.0. The session covered key technologies such as machine learning, IoT, and automation. Real-world examples were used to illustrate how these tools transform industries. Students actively participated in discussions, gaining clarity on future tech trends.

- ***Session 2: AI Concepts and Real-world Applications***

Dr. M. Muthukumaran explained core AI concepts including data-driven decision-making and intelligent systems. Practical applications in healthcare, agriculture, and smart cities were showcased. Students explored how AI solves real-world problems through interactive case studies. The session emphasized ethical AI use and societal impact.

◆ Day 2 – 26th November 2025

- ***Session 1: Exploring AI Tools for Innovators***

Dr. S. Pitchumani Angayarkanni demonstrated beginner-friendly AI platforms for innovation. Students learned to use tools for design, simulation, and productivity enhancement. The session included hands-on activities to build confidence in using AI interfaces. Emphasis was placed on creative problem-solving and tool adaptability.

- ***Session 2: Design Thinking with AI Integration***

Dr. Poonguzhali S introduced students to the principles of design thinking. AI-assisted insights were used to enhance empathy, ideation, and prototyping stages. Students worked in teams to apply design thinking to tech-based challenges. The session bridged innovation with user-centered design strategies.

◆ Day 3 – 27th November 2025

- ***Session 1: AI in Entrepreneurship and Startup Development***

Dr. K. Ramu discussed how AI drives modern startups and business models. Students explored frameworks for innovation, incubation, and market readiness. Case studies of AI-powered ventures were analyzed for strategic insights. The session encouraged entrepreneurial thinking and opportunity identification.

- ***Session 2: Idea Pitching using AI Tools***

Mr. B. S. Seshadri guided students through the process of pitching tech ideas using AI



support. Participants developed and presented their concepts with feedback from faculty. Tools for visualization, prototyping, and storytelling were introduced. The session concluded with a panel discussion and motivational insights.

Key Takeaways for Students

- Gained foundational knowledge of AI and Industry 4.0 technologies
- Learned to use AI tools for design, research, and innovation
- Applied design thinking to solve real-world problems
- Explored entrepreneurial pathways and startup development strategies
- Built confidence in idea pitching and collaborative problem-solving

Outcomes

- Students demonstrated increased awareness and interest in AI-driven innovation
- Hands-on sessions improved technical competence and creativity
- Collaborative activities fostered teamwork and communication skills
- Participants developed pitch-ready ideas with entrepreneurial potential
- The workshop aligned with IIC goals and AVIT's vision for nurturing future innovators

Coordinator

HoD/CSE

Flyer of the Event



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Vinayaka Missions Chennai Campus



DIAMOND
QS I-GAUGE
INDIAN COLLEGE RATINGS



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INNOVATION
COUNCIL
(Ministry of Education Initiative)

**Institution Innovation Council &
Department of Computer Science and Engineering**

Cordially welcome you to the

**3 Day Workshop on
AI and 4.0 Tools for Innovators and Entrepreneurs**

Resource Persons



Dr. S. Balakrishnan
Professor & Head
Dept. of CSE, AVIT



**Dr. S. Pltchumani
Angayarkanni**
Professor
Dept. of CSE, AVIT



Dr. K. Ramu
Professor
Dept. of CSE, AVIT



Dr. M. Muthukumar
Professor
Dept. of CSE, AVIT



Dr. Poonguzhalli S
Professor
Dept. of CSE, AVIT



Mr. B. S. Seshadri
Professor of Practice
Dept. of CSE, AVIT

25th to 27th November 2025 @ NEC LAB, AVIT




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ENTREPRENEURSHIP CENTER
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Under VMRF - Deemed to be University



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Vinayaka Missions Chennai Campus



INSTITUTION'S
INNOVATION
COUNCIL
(Ministry of Education Initiative)

Day 1 25th November 2025

Resource Persons



Introduction to Artificial Intelligence and Industry 4.0

10:00 AM to 12:00 Noon

Dr. S. Balakrishnan
Professor & Head
Dept. of CSE, AVIT

AI Concepts and Real-world Applications.

01:00 PM to 03:00 PM



Dr. M. Muthukumaran
Professor
Dept. of CSE, AVIT

📍 **NEC LAB, AVIT**



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Day 2 26th November 2025

Resource Persons



Exploring AI Tools for Innovators

10:00 AM to 12:00 Noon

Dr. S. Pitchumani Angayarkanni
Professor
Dept. of CSE, AVIT

Design Thinking with AI Integration

01:00 PM to 03:00 PM



Dr. Poonguzhali S
Professor
Dept. of CSE, AVIT

NEC LAB, AVIT



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Day 3 27th November 2025

Resource Persons



Dr. K. Ramu
Professor
Dept. of CSE, AVIT

**AI in Entrepreneurship and
Startup Development**
10:00 AM to 12:00 Noon

Idea Pitching using AI Tools
01:00 PM to 03:00 PM



Mr. B. S. Seshadri
Professor of Practice
Dept. of CSE, AVIT

NEC LAB, AVIT



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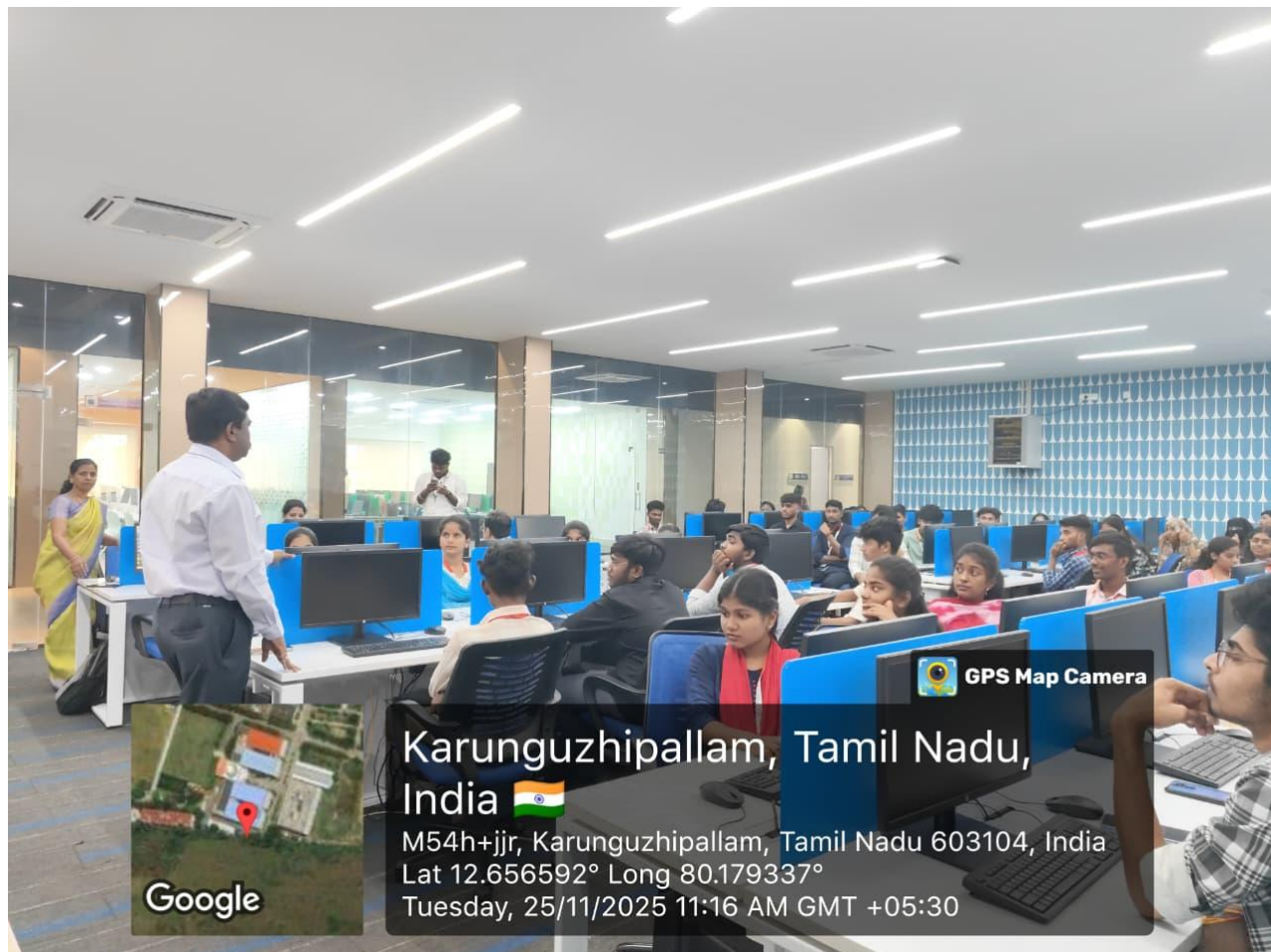
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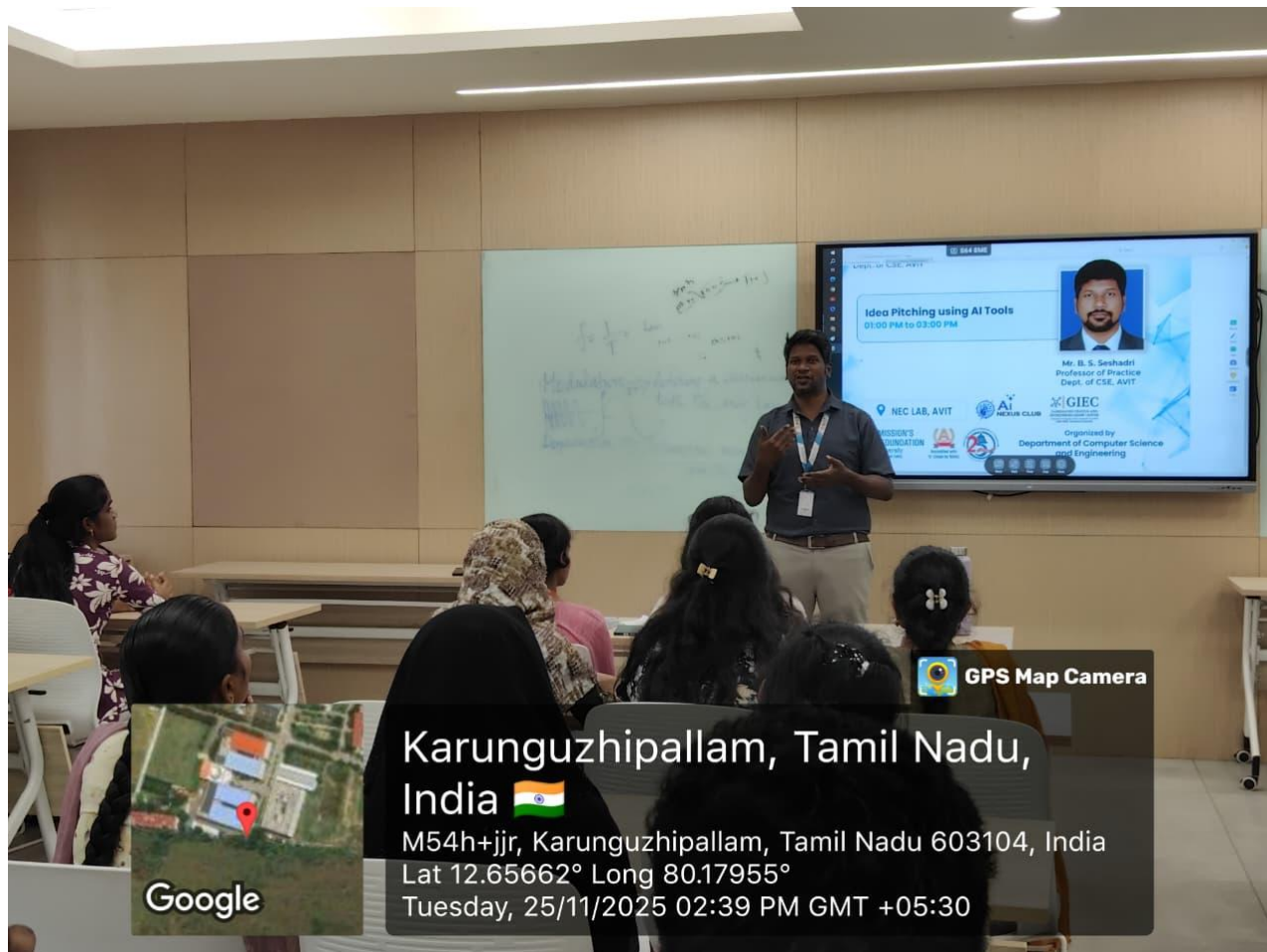
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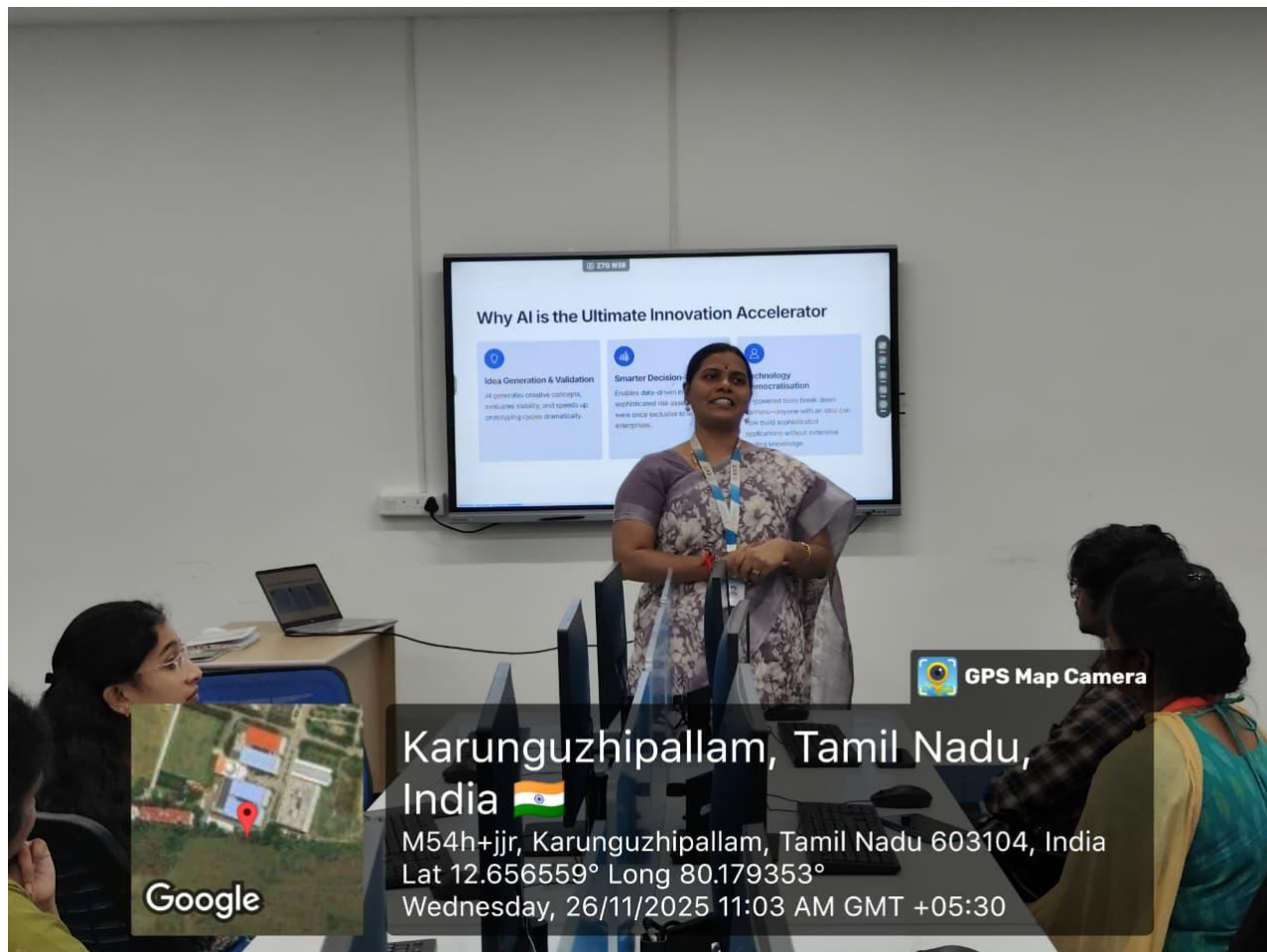
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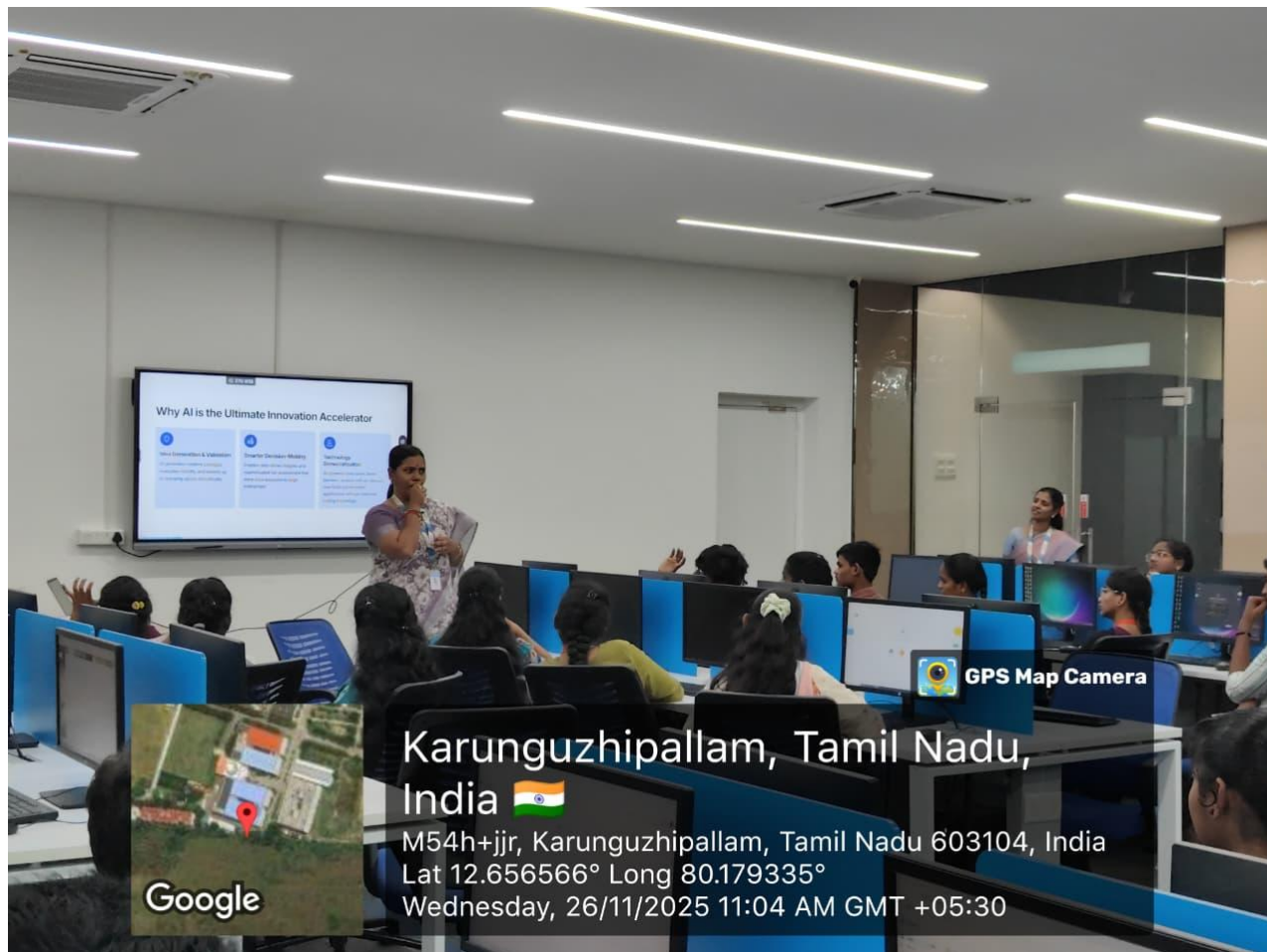




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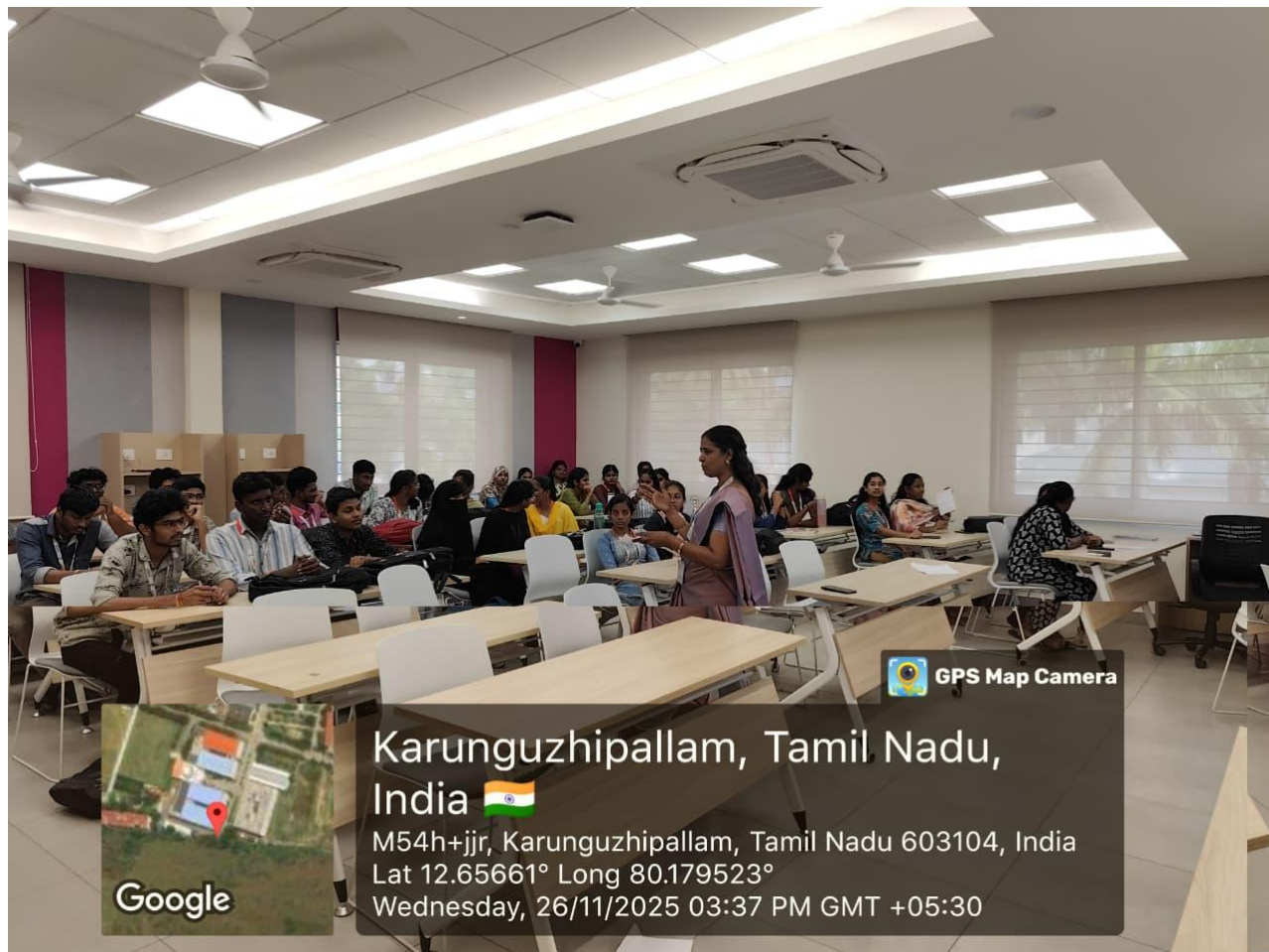




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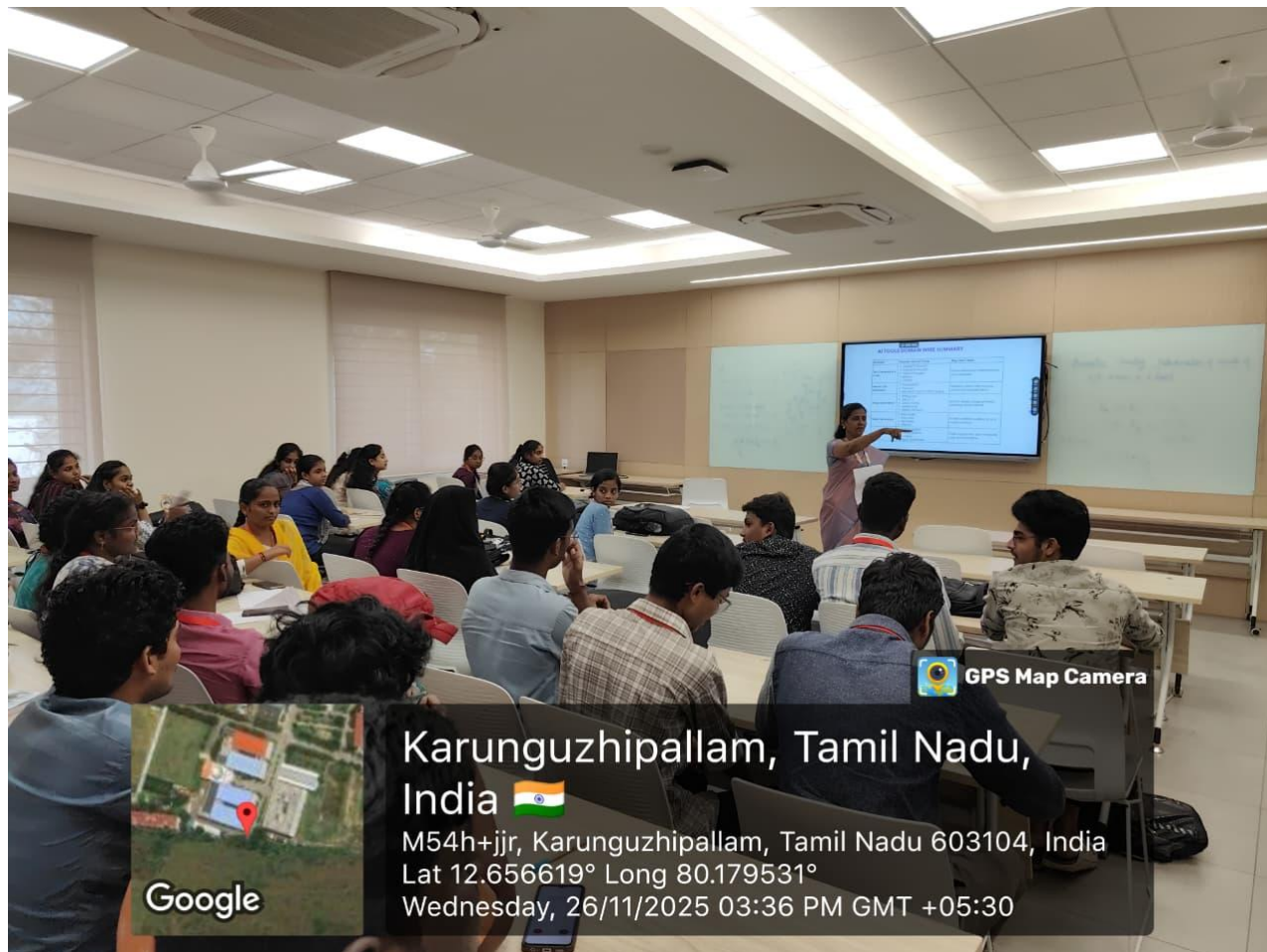
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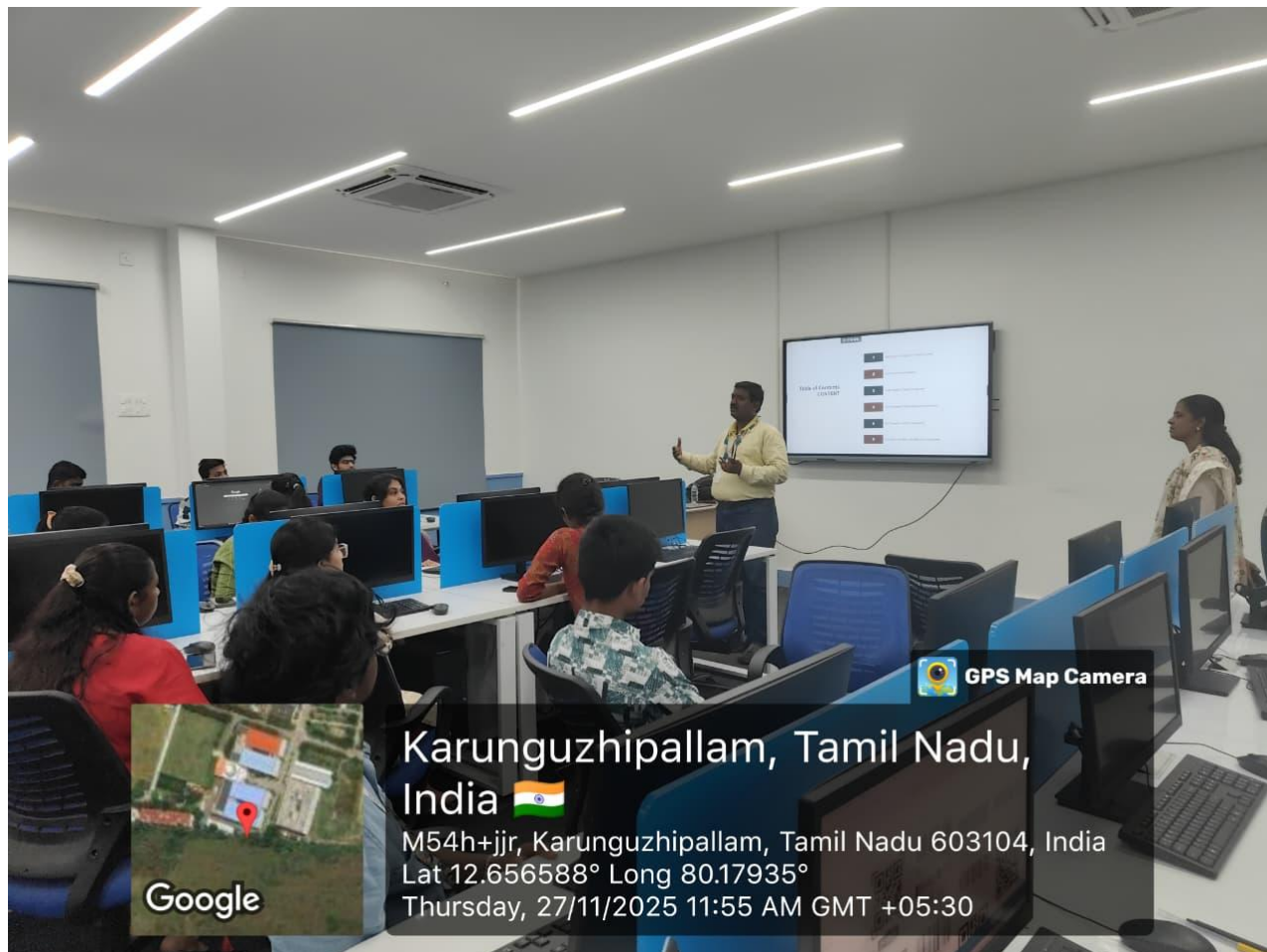




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