



SSM INSTITUTE OF ENGINEERING AND TECHNOLOGY,
Dindigul – Palani Highway, Dindigul – 624 002.

Circular

1.2.2023

We are glad to inform you that based on the MOU with **Maxelerator Foundation, Madurai** an FDP has been planned exclusively for 20 faculty members on **"AI & ML" from 6.2.2023 to 10.2.2023.** Henceforth, Registered faculty members are requested to kindly make use of this opportunity and enrich their knowledge.

Note : Registered faculty members are requested to bring your Laptop for Hands On Session.

Resource Persons:

Mr.Nanu Swamy
Managing Director of Maxelerator Foundation, Madurai

Date & Time: 6.2.2023 to 10.2.2023 & 09.30 AM – 4.30 PM

Venue: CSE Lab – I

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Program Coordinators
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Principal
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From

G. Prabu,
Associate Professor/CSE,
SSMIET,
Dindigul.

To

The Principal,
SSMIET,
Dindigul.

Respected Sir,

Subject: To organize Five-day FDP on "AI&ML" requested- reg;

I would like to bring to your kind notice that the Department of CSE planned to organize a **Five Day FDP on "AI & ML" from 6.2.2023 to 10.2.2023** for our faculty members. **Mr.Nanu Swamy, Managing Director of Maxelerator Foundation, Madurai** has accepted our invitation to act as a resource person. So, I request you to give approval to organize this program.

Thanking You

Dindigul

31/1/2023

G. Prabu
31/1/23
Yours Sincerely

[Dr. G. Prabu]

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PROGRAM COORDINATORS

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Dr. D. Senthil Kumaran
31/1/23
PRINCIPAL



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ARTIFICIAL INTELLIGENCE & MACHINE LEARNING

Every industry has been touched by AI-powered technology one way or the other. From software that can detect cancer cells to developing driverless vehicles in the automotive industry, to natural language processing - ML and AI has become the crucial cornerstone. AI is predicted to contribute \$15.7 trillion to the global economy by 2030 and the number of job opportunities are skyrocketing.

In this 5 day hands on workshop, we'll learn from hands on examples that will help you overcome the fear of embarking on building custom AI solutions for various types of problems. A basic knowledge of programming in python will be useful.

Tentative Agenda:

Date	Topics
06-02-2023	<ol style="list-style-type: none"> 1. Introductions 2. Pre-Evaluation 3. Traditional Programming vs Machine Learning? 4. Introduction to OpenAI/GPT3 5. Python Basics 6. Hands On Exercises
07-02-2023	<ol style="list-style-type: none"> 1. Machine Learning Lifecycle 2. ML Types and Algorithms 3. Machine Learning tools / libraries: Tensorflow, Keras 4. Browser Based Machine Learning 5. Design of Real Time Machine Learning System - 1 6. Hands On Exercises
08-02-2023	<ol style="list-style-type: none"> 1. Data Annotation Tools 2. Introduction to Neural Networks 3. ML Models



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	4. Image Classification (Transfer Learning, KNN Classifier) 5. PoseNet, Face-api, FaceMesh, HandPose 6. Design of Real Time Machine Learning System - 2
09-02-2023	1. AI Demos - Image Classification on Edge 2. Pytorch as a Deep Learning Framework, 3. Building Neural Network From Scratch, 4. Custom Object Detection - YoloV5 5. In & At Memory Computation 6. Design of Real Time Machine Learning System - 3 7. Hands on exercises
10-02-2023	1. Transfer Learning, Natural Language Processing, 2. Explainable AI 3. Design of Real Time Machine Learning System - 4 4. Wrap up Applications Discussion 5. Project Demos 6. Closing Ceremony



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Department of Computer Science and Engineering

Report

Date: 12/1/2023

Two days workshop on "**Innovation Activity- Build Club**" was conducted from 11/1/23 to 12/1/23 in ECE Communication Lab for all the department 3rd Year 50 students. Our chief guest **Mr. Nanu Swamy, Managing Director of Maxelerator Foundation, Madurai** delivered an introduction about the activities to be carried out for the 2 day hands-on training session on Innovation Activity and **Ms. Naveena Swamy**, Founder, Maxelerator Foundation, **Mr. Emmanuel Robin Joseph**, Program Director, Maxelerator Foundation and IITM Incubation Cell, IITM Research Park Team handled the session.

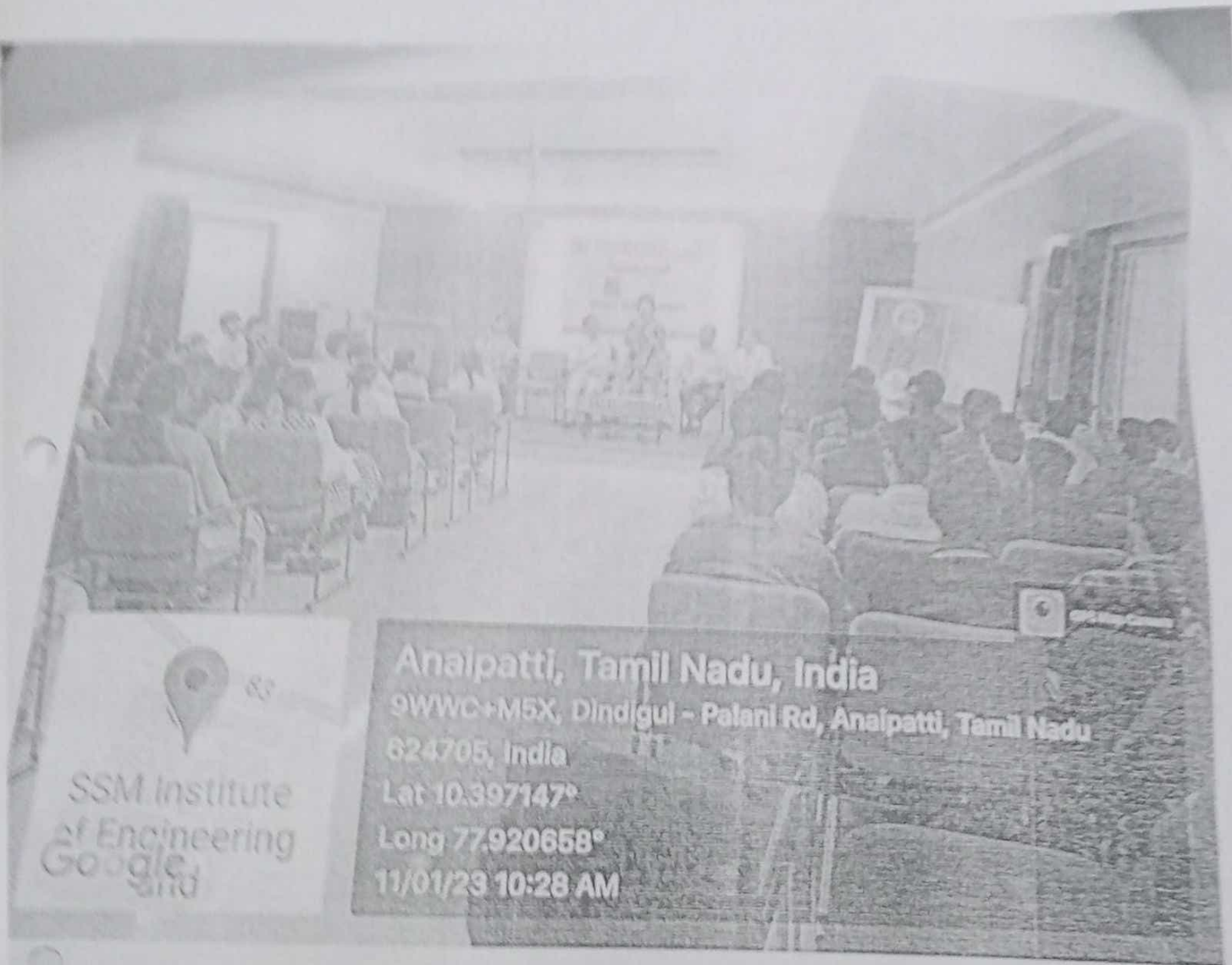
Inauguration



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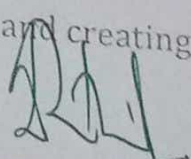
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DAY - I Agenda

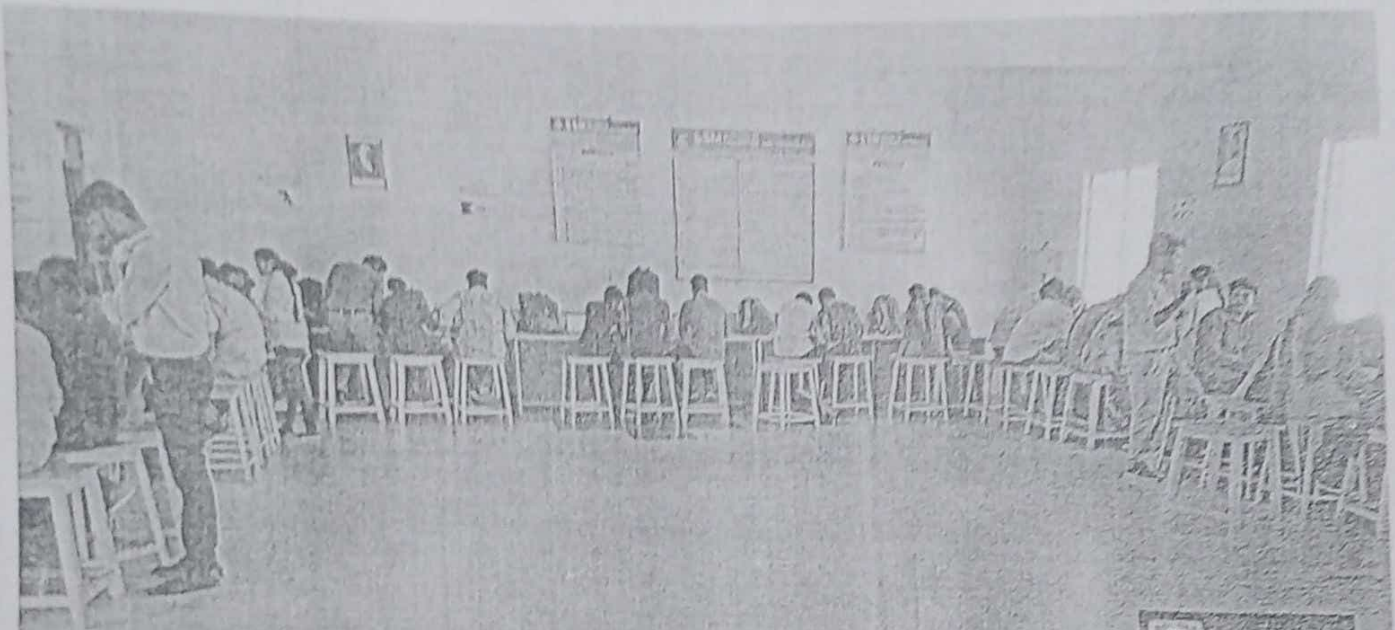
11 Jan '23, Monday, Day I		
Schedule (24 hrs)	Description	Speaker / Facilitator
10:00 to 10:05	Tamil Thai Vazthu	Students
10:05 to 10:10	Welcome note	Dr. C. Sujatha HOD / CSE
10:10 to 10:25	Presidential Address	Dr Senthil Kumaran, Principal
10:25 to 10:30	Introduction about chief guest	Students
10:30 to 10:40	Build Club and its significance	Mr Nanu Swamy & Ms Naveena Swamy, Founders
10:40 to 10:45	Introduction to core team, SSMIET Build Club	Dr. G. Prabu SPOC
10:45 to 10:50	Vote Of Thanks	Dr. G. Prabu SPOC
10:50 to 13:00	Workshop of Build Projects	Maxelerator & IITMIC Team
13:00 to 14:00	Lunch	
14:00 to 16:30	Workshop of Build Projects ¹	Maxelerator & IITMIC Team
16:30 to 17:00	Students Exhibit (Non-Academic Projects) ²	

Team Head gave an introduction about the team members of the Build club and handed over the session to resource persons Mr Nanu Swamy and Ms. Naveena Swamy, who has trained the students on the basics of Innovation Activity in detail and creating new ideas on their own.



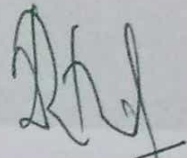

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And from 12.00 p.m to 4.30 p.m the students worked on how to create a project using Softwares and showed their results individually to the trainer and clarified their doubts in that.



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DAY - 2 Agenda

12 Jan '23, Tuesday, Day 2		
Schedule (24 hrs)	Description	Involved Team
10:00 to 13:00	Workshop of Build Projects	Maxelerator & IITMIC Team
13:00 to 14:00	Lunch	
14:00 to 16:00	Workshop of Build Projects	Maxelerator & IITMIC Team
16:00 to 16:30	Open Discussion & Queries, Feedback	All

Notes:

1. Project based learning for the pre-built projects

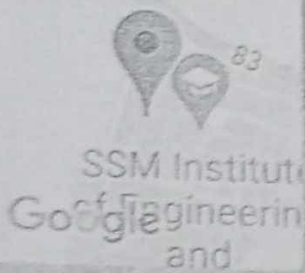
1. Smart Display (Dot Matrix Board)
2. Plant Monitoring
3. Weather Monitoring System,
4. People Counting System
5. Human Body Temperature System
6. Dancing LED's
7. Maze Robot
8. Water meter
9. Energy Meter
10. RFID Tag Reader

2. Queries and Demos – Based on the workshops, the floor is open for queries and also exhibiting the projects that are built in these workshops



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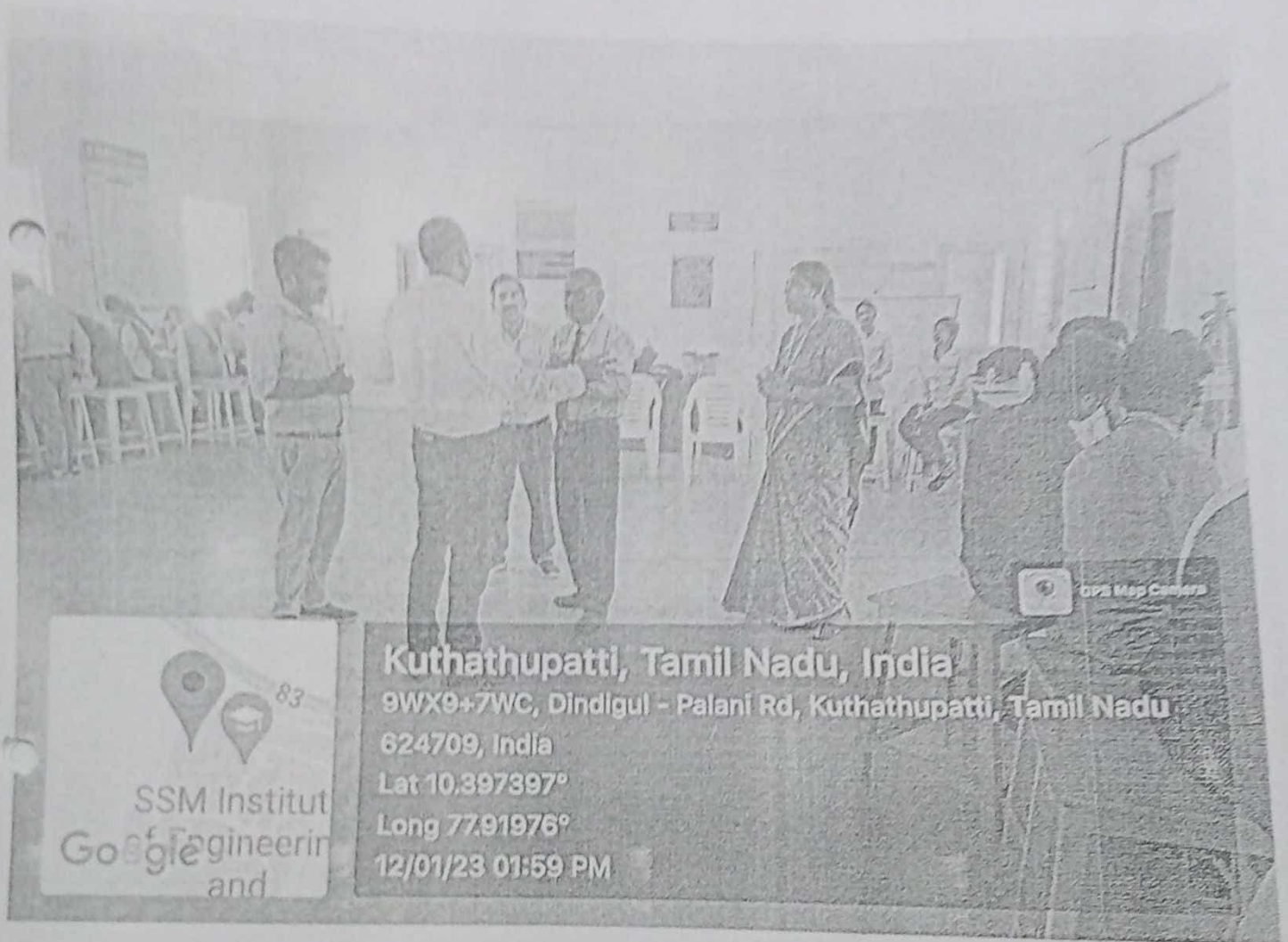
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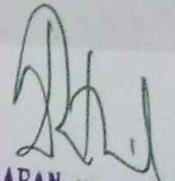
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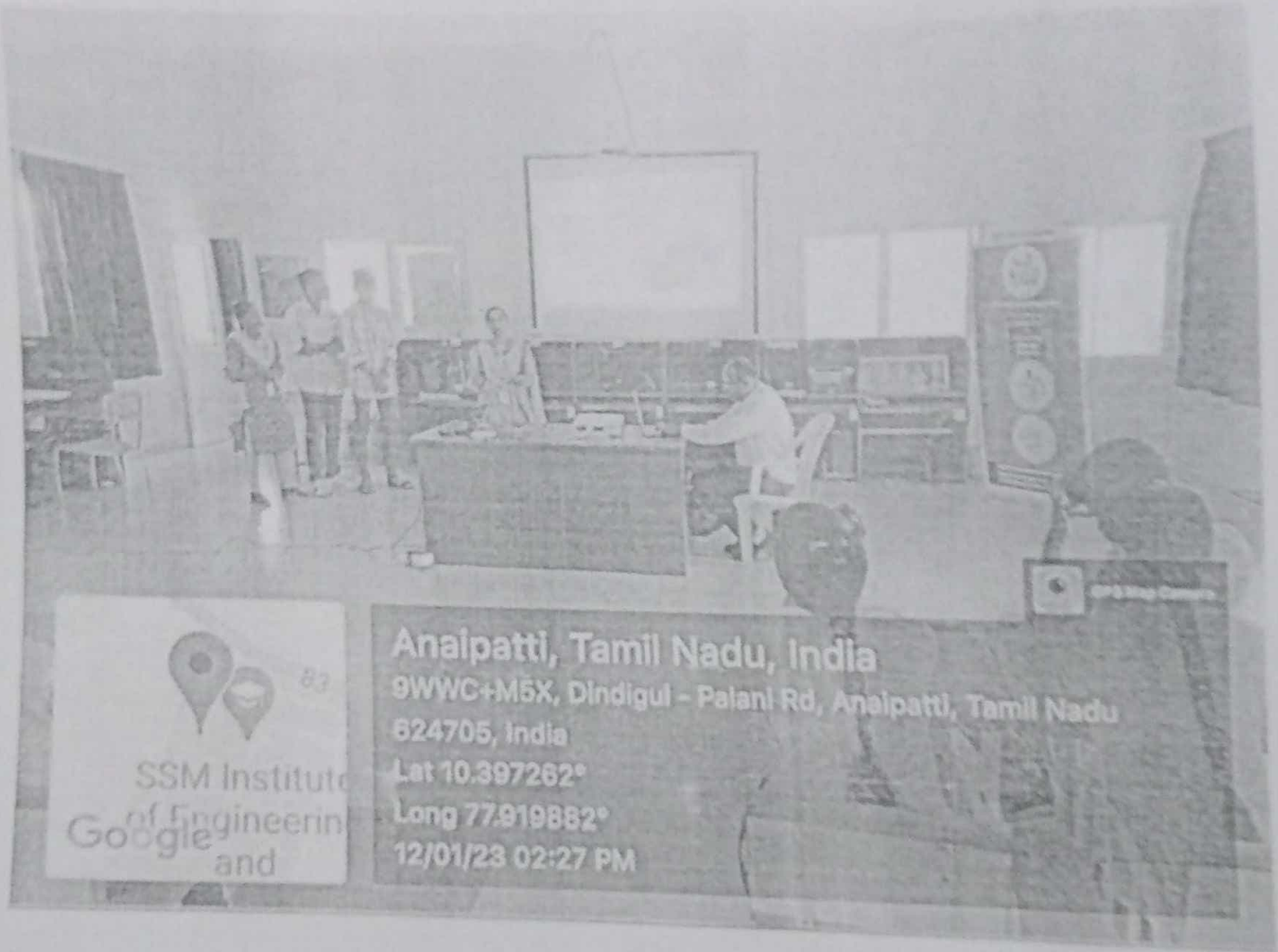
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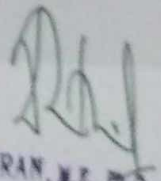
Students actively asked their doubts about the creation application with innovative ideas and the trainer resolved their queries instantly.

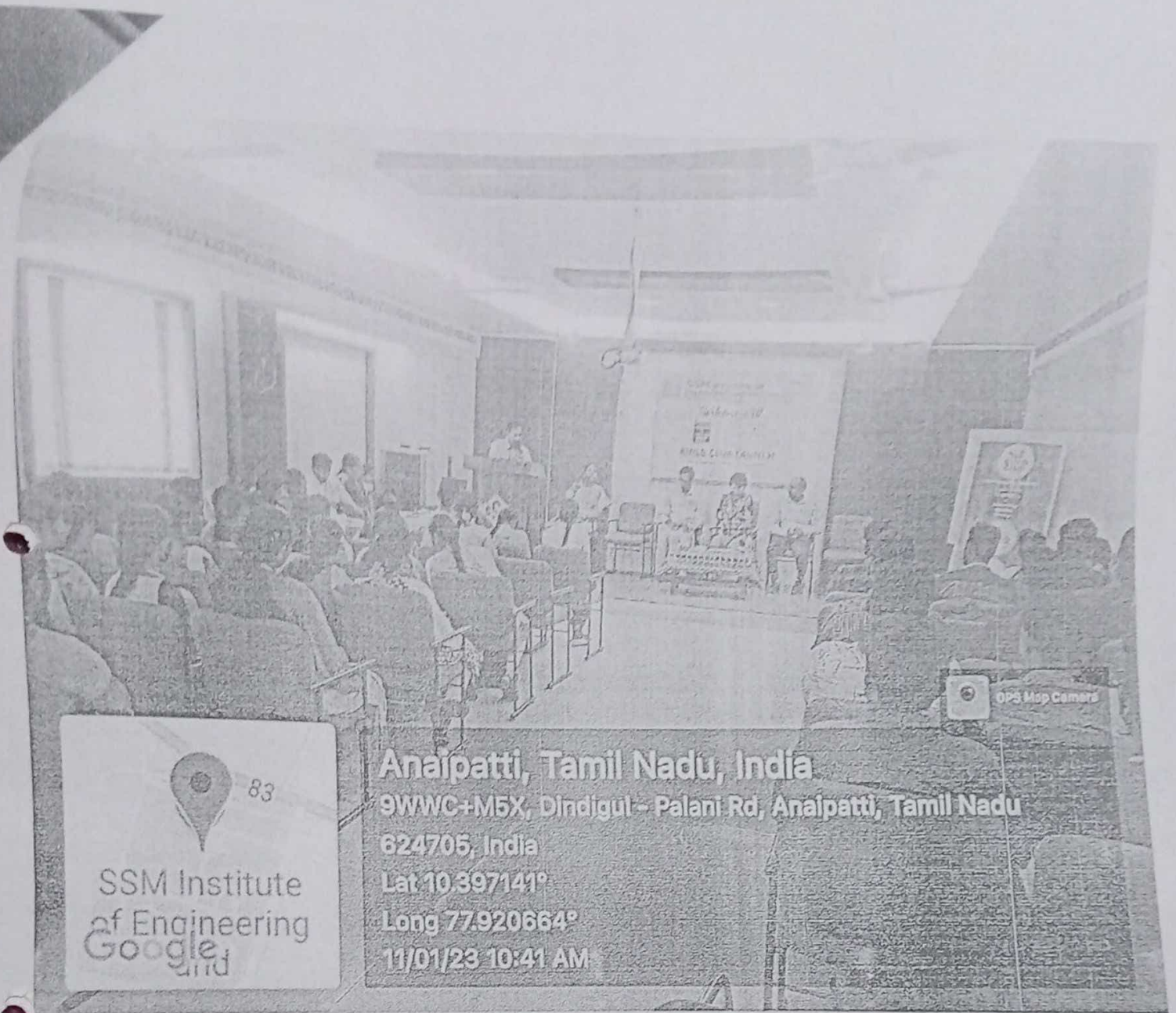



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Valedictory




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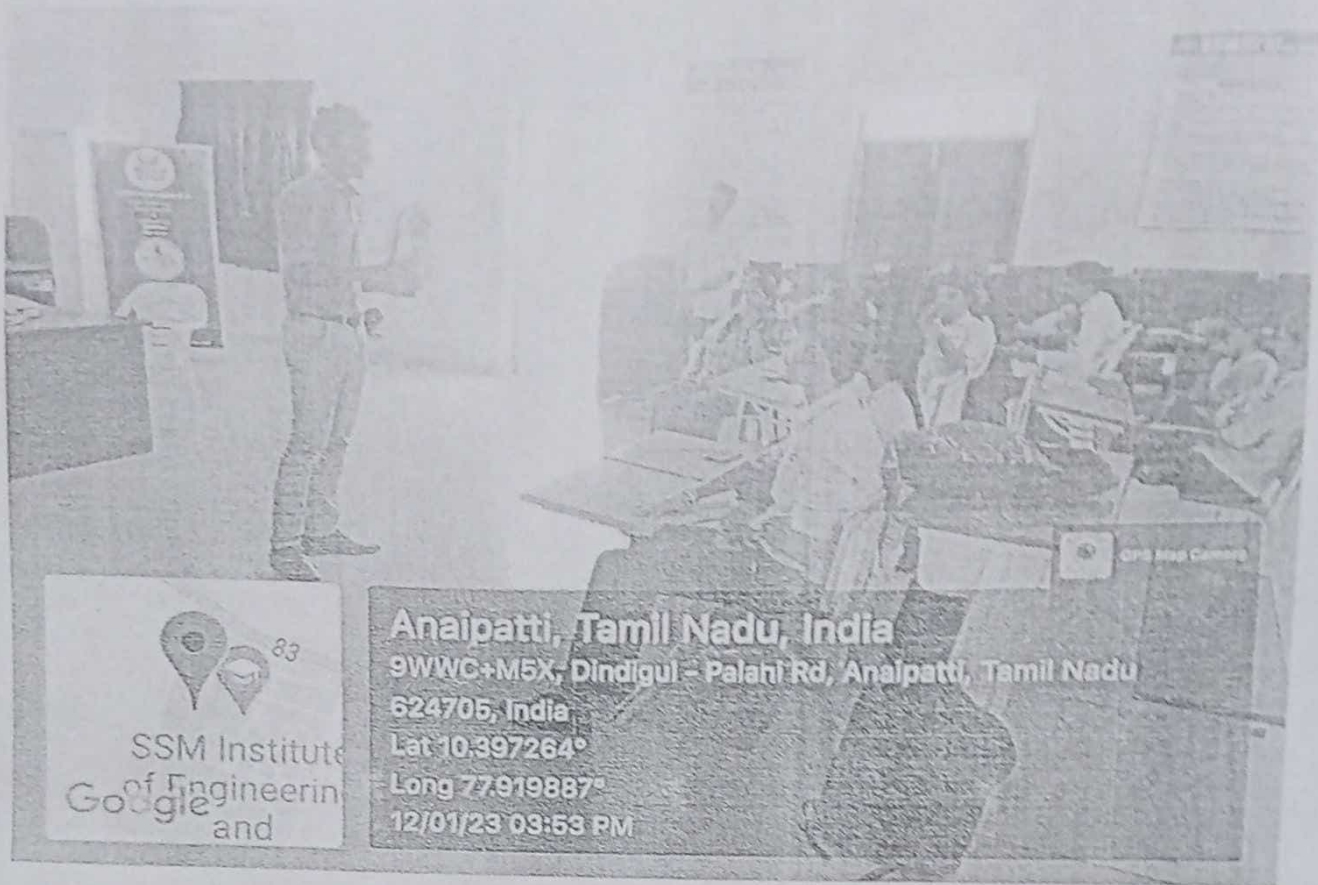
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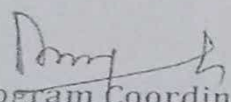
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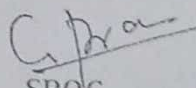
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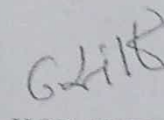
Student's feedback about the Session 17/12/23




In conclusion of the above students gave a feedback individually about the session that they need session to be in long run for understanding concepts in advanced manner and asked to conduct more workshop consecutively.

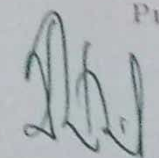

Program Coordinator


SPOC


HOD/CSE


Principal




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