



FACULTY DEVELOPMENT PROGRAM ON VIRTUAL LABS

Organized by Department of CSE, AI&DS & IT

18.06.2026 - 23.06.2026

Introduction:

The Department of CSE, AI&DS and IT has conducted a One Week Faculty Development program on “Virtual Labs”, from 18.06.2026 – 23.06.2026. The program was organized under the Chief Patron of Dr. R. Ravikumar, Principal, Patron of Rev. Sr. P. Maria Alangaram, DMI - Administrator, The department head Mr.P.Muthamil Selvan, HOD (CSE).

Objectives:

The primary objectives of this virtual labs were to

- ❖ To perform experiments in a virtual laboratory environment.
- ❖ To gain practical knowledge without using physical lab equipment.
- ❖ To analyze and interpret the experimental results.
- ❖ To improve problem-solving and analytical skills.
- ❖ To become familiar with laboratory procedures and techniques.
- ❖ To reinforce classroom learning through interactive simulations.

Program Schedule:

S.No.	Course Name	Faculty Name	Designation
1.	Quantum Computing Virtual Lab (New))	Mr. P. Muthamil Selvan	HOD/CSE
2.	Artificial Intelligence Lab(New)	Mr. L. Dinesh	HOD/AI&DS
3.	Block chain Lab(New)	Mrs. G. Subbulakshmi	HOD/IT
4.	Artificial Neural Networks(New)	Mrs. A. Marry Josi Ceciliyah	AP/CSE
5.	Automata and Formal Languages - II(New)	Mr. P. Sathish	AP/CSE
6.	Python Programming Lab: Advanced Topics (New)	Mrs. A. Francis Thivya	AP/AI&DS
7.	Network Security Virtual Lab (New)	Mrs. S. Pavithra	AP/CSE
8.	Creative Design, Prototyping & Experiential	Mrs. K. Sudha	AP/CSE
9.	Advanced Computer Architecture Lab(New	Mrs. V.C.Priyadharshini	AP/CSE
10.	Artificial Intelligence II Lab	Mrs. R.Kavitha	AP/CSE
11.	Cryptography Lab	Mrs.P.R.Suganya	AP/CSE

12.	Pattern Recognition Virtual Lab	Mr.Raja	AP/IT
13.	Image Processing Lab	Mrs.P.Latha	AP/CSE
14.	Python Programming Lab	Ms. R.Kanimozhi	AP/CSE
15.	Soft Computing Tools in Engineering Lab	Mrs. Iswariya	AP/AI&DS

Program Highlights:

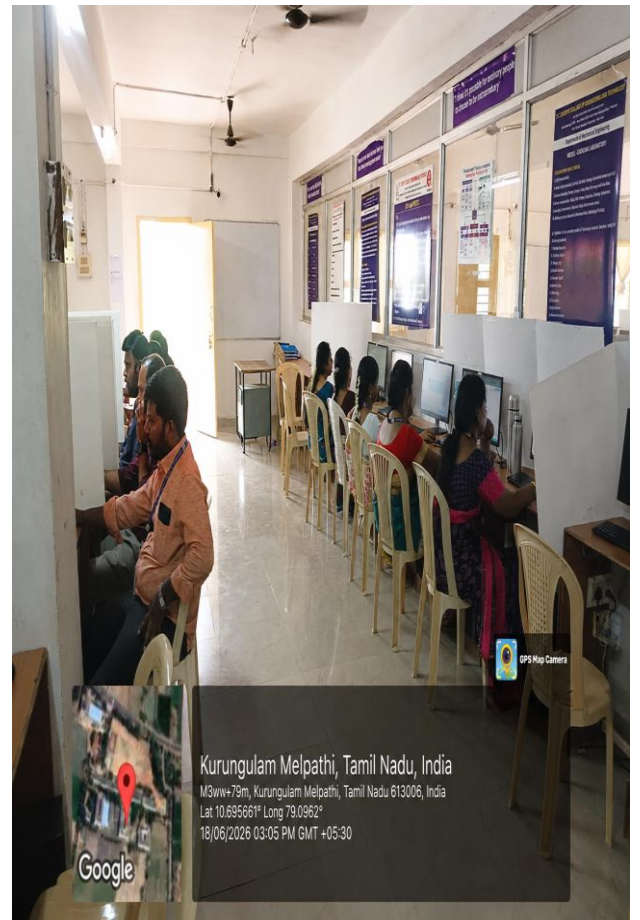
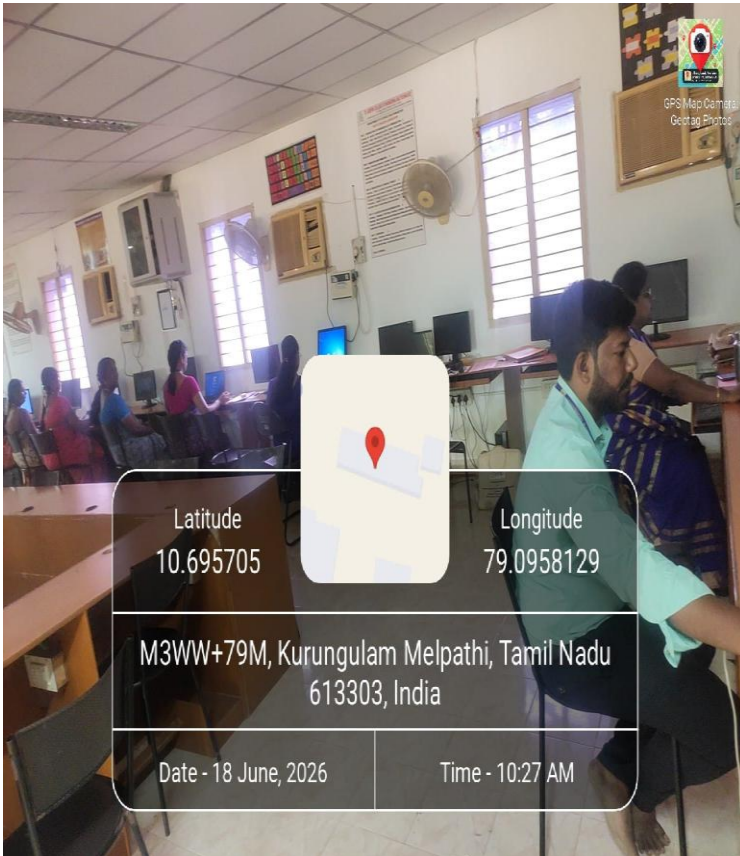
- ❖ Performed experiments in a realistic virtual laboratory environment.
- ❖ Improved understanding of theoretical concepts through interactive simulations.
- ❖ Gained hands-on experience without requiring physical laboratory equipment.
- ❖ Analyzed experimental results and observed system behavior.
- ❖ Practiced experiments safely with the ability to repeat them multiple times.
- ❖ Enhanced analytical, problem-solving, and practical skills.
- ❖ Accessed experiments anytime and anywhere through the virtual lab platform.

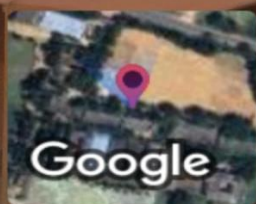
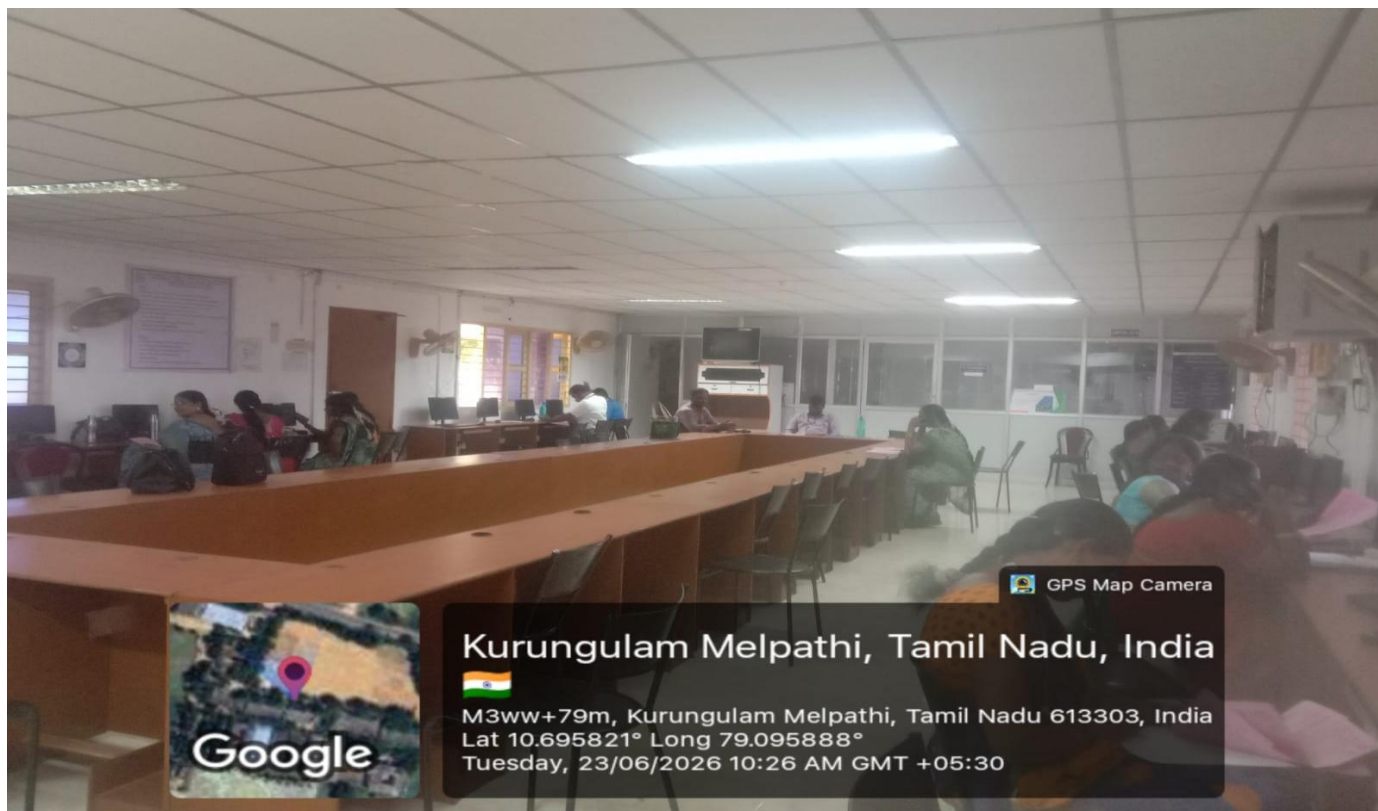
The Quantum Computing Virtual Lab provided an interactive platform to learn the fundamental concepts of quantum computing, including qubits, superposition, and quantum gates. It enabled the performance of virtual experiments and the simulation of quantum circuits without requiring physical quantum hardware. The virtual lab helped in analysing the behaviour of quantum systems and understanding basic quantum algorithms. It also strengthened theoretical knowledge through hands-on simulations and improved analytical and problem-solving skills. Overall, the program offered a practical and engaging learning experience in the field of quantum computing.

The Artificial Intelligence Lab provided an interactive environment to learn the fundamental concepts and techniques of Artificial Intelligence. It enabled students to perform virtual experiments involving intelligent systems, machine learning, search algorithms, and problem-solving methods. The lab helped in understanding AI concepts through practical simulations and hands-on activities without the need for specialized hardware. It also improved analytical thinking, programming, and decision-making skills while reinforcing theoretical knowledge. Overall, the program offered an engaging and practical learning experience in the field of Artificial Intelligence.

Block chain Virtual Lab provides an interactive platform to learn the fundamentals of block chain technology through virtual experiments and simulations. It helps students understand block chain architecture, consensus mechanisms, smart contracts, and decentralized applications in a practical and engaging way.

Pattern Recognition Virtual Lab provides an interactive platform to understand the concepts and techniques of pattern recognition through virtual experiments and simulations. It helps students learn feature extraction, classification methods, and pattern analysis while improving their practical knowledge and problem-solving skills in real-world applications. Artificial Neural Networks (New)





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EVENT COORDINATOR

HOD

IQAC Coordinator

PRINCIPAL