

DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING

Date: 19/03/2025

REPORT – WORKSHOP ON “AI IN VLSI: THE SYNERGY DRIVING NEXT GEN SEMICONDUCTOR TECHNOLOGIES”

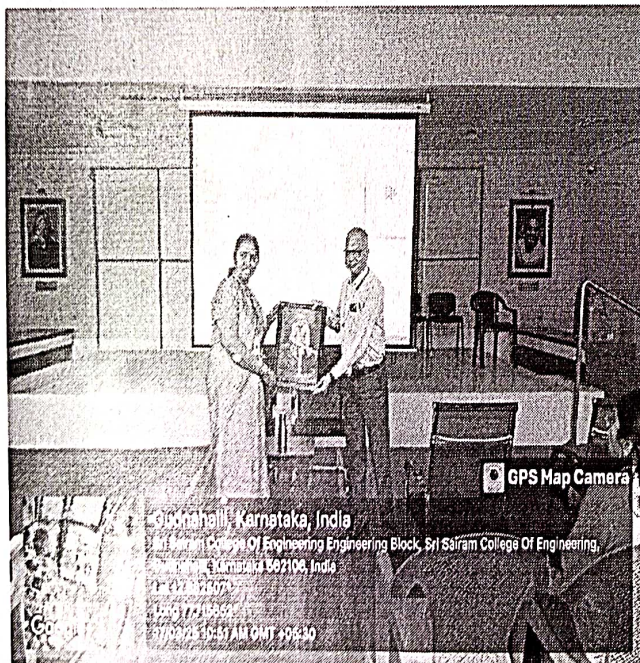
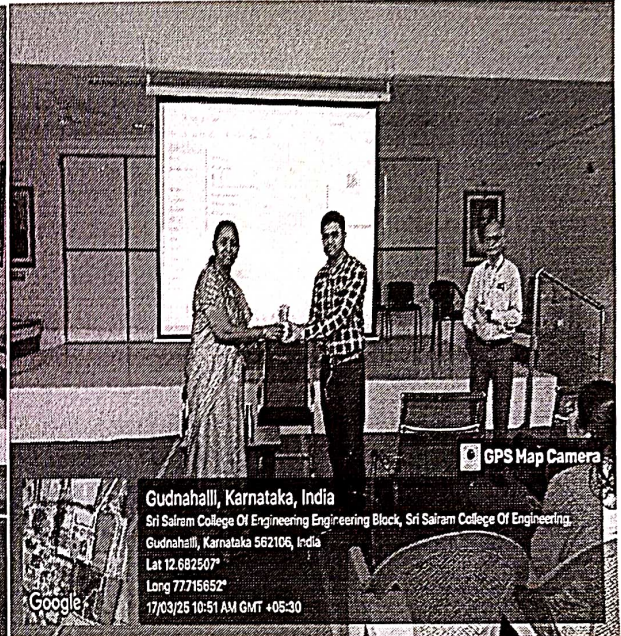
Department of Electronics and Communication Engineering in association with IEEE CAS society, Sri Sairam College of Engineering, Bangalore has conducted a one-day workshop on “AI in VLSI: the Synergy Driving Next Gen Semiconductor Technologies” on 19/03/2025 for third year ECE students. Mr. Mohsin Khan A, Corporate Trainer, Cranes Varsity, Bangalore has been invited as Chief Guest for this workshop.

The Workshop has been inaugurated on 17/03/2025 in seminar hall with the guidance and support of Dr. B. Shadaksharappa, Principal, Sri Sairam College of Engineering, Bangalore, Dr. A. Poonguzhali, Head of the Department, Department of Electronics and Communication Engineering, Sri Sairam College of Engineering, Bangalore, Faculty members and students in Seminar Hall. The gathering has been welcomed, and the Resource Person was felicitated by Dr. A. Poonguzhali, Head of the Department of ECE, and HOD mam addressed the students about the importance of Semiconductor Technologies and AI era in VLSI, followed by the speech of resource person Mr. A. Mohsin Khan.

In forenoon, oral session has been conducted on understanding of Artificial Intelligence, Machine Learning and Deep learning for VLSI, they have covered the topics of What is AI, Examples of AI, Types of Algorithms used in AI, How machine learning is explained in AI, Need for Machine Learning, Types of machine learning algorithms, and how the machine learning Algorithms work, Deep Learning concepts, How a machine learning and Deep learning Algorithms are used in VLSI and Embedded Applications. Real time project on chip manufacturing using machine learning and deep learning concepts were explained elaborately.

By Afternoon, Real time projects and tool requirements has been given on the topics like Machine learning, deep learning in VLSI. Project based on VLSI is explained with their software libraries inbuilt in deep learning and machine learning using Python. Students have actively participated and learnt the coding and the concept of algorithms used in the project. Students requested to conduct more events on such core topics and interested to attend

internship with the invited resource person. The session was very interactive and provided a very good learning platform.



P. Deepa
19/3/25
Coordinator

20/03/2025

19/3/25
HOD