A Report on Seminar on "From Silicon to Systems: Powering the future with Semiconductor Innovation" Organized by Department of Electronics and Communication Engineering in Association with MITS IETE Students Forum (ISF) Date: 24.02.2026

Time: 1:00 PM to 4:00 PM Venue:
Seminar Hall – B

Attendees : 120 Students and Faculty Members

The Department of Electronics and Communication Engineering, in association with the MITS IETE Students Forum (ISF), organized a seminar on **"From Silicon to Systems: Powering the future with Semiconductor Innovation** "on 24th February 2026 at Seminar Hall B, from 1:00 PM to 4:00 PM

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The event commenced with a welcome address by Dr. C.Sanjay Kumar, Professor & Head, Department of ECE, who extended a warm welcome to the resource person, dignitaries, faculty members, and students.

Dr S. Rajasekaran, Associate Director, Placements addressed the gathering and highlighted the significance of the future with Semiconductor innovation and Identification of technical skills, programming knowledge, and domain expertise expected from industry-ready engineers.

The session was graced by Mr.Sudheer Reddy, Sense Semiconductor and IT solutions Pvt Ltd, who served as the resource person. The seminar aimed to create awareness among students about the importance of insights into how theoretical subjects like semiconductor physics, Semiconductor materials and device technology, Integrated Circuit (IC) Design are applied in real industry projects. and emerging challenges in the field

The resource person Mr.Sudheer Reddy, delivered an insightful and interactive session on "From Silicon to Systems: Powering the future with Semiconductor Innovation". He discussed about Semiconductor Materials and Device Technology, Semiconductor Manufacturing and fabrication , Integrated Circuit (IC) Design , VLSI Systems and Architecture , Semiconductor Packaging and Integration, Semiconductor Applications in Modern Systems and Future of Semiconductor Innovation, which greatly enriched the knowledge of the participants.

The following key take away points were highlighted during the seminar.

Semiconductor devices form the backbone of all modern electronic systems including computing, communication, healthcare, automotive, and consumer electronics.Insights into Continuous scaling of CMOS devices—from planar transistors to **FinFET and Gate-All-Around (GAAFET)** architectures has significantly improved performance and reduced power consumption. are applied in real industry projects. The career scope and opportunities in these rapidly evolving fields.

Semiconductor innovation is accelerating the development of **Artificial Intelligence, 5G/6G communication, IoT devices, autonomous vehicles, and smart healthcare systems.** Learning how simulation, modelling, and verification ensure reliable chip performance before fabrication.

The seminar was coordinated by **Dr.Rahul Mondal**, **Assistant Professor, ECE**, **Dr.Murali Manohar,**, **Associate Professor, ECE**, under the guidance of the IETE Forum. The **event Co-coordinator Dr. Sk Nurul Islam**, **Assistant Professor, ECE**, ensured the smooth conduct of the seminar.

The session concluded with a **Vote of Thanks** proposed by **Mr. V. S. Prasanth**, **Assistant Professor, Department of ECE**, who expressed gratitude to the management of **MITS (Deemed to be University), Dr. C. Yuvaraj**, **Vice Chancellor**, **Dr. P. Ramanathan**, **Principal**, **Dr. C. Kamal Basha**, **Vice Principal (Administration)**, and **Dr. C.Sanjay Kumar**, **Professor & Head, ECE** for their continuous support and encouragement.

Special thanks mentioned for resource Person, Mr.. Sudheer Reddy, for sharing his valuable expertise.

Faculty members, IETE coordinators, and a large number of students from the Department of ECE actively participated in the seminar and benefited from the expert's insights into powering the future with Semiconductor Innovation**.**

The seminar proved to be a valuable learning experience, enhancing the participants' understanding of Semiconductor Innovation techniques essential in today's digital world