

EVENT REPORT

Title of the Event: One Week Offline Faculty Development Program on “Recent Advances in VLSI Design and Its Applications”

Dates: 17th October 2022 – 22nd October 2022

Organized by: Dr. D. Rupa Kumar

Department: Electronics and Communication Engineering (ECE)

Institution: Marri Laxman Reddy Institute of Technology and Management (MLRITM)

The Department of Electronics and Communication Engineering at MLRITM organized a One Week Offline Faculty Development Program on “Recent Advances in VLSI Design and Its Applications” from 17th to 22nd October 2022. The objective of the FDP was to enhance the knowledge and research capabilities of faculty members in the rapidly evolving domain of Very Large-Scale Integration (VLSI) technology, which plays a significant role in modern semiconductor industries.

The program provided an in-depth understanding of advanced VLSI concepts such as low-power digital design, physical design automation, Analog-mixed signal design, and fabrication challenges in cutting-edge semiconductor technologies. Distinguished speakers from reputed academic institutions and industry delivered technical lectures covering the latest trends in processor architectures, nanoelectronics devices, and electronic system design methodologies.

Practical demonstrations and design sessions using industry-standard EDA tools enabled participants to gain hands-on experience in schematic design, simulation, verification, and layout implementation. The FDP also emphasized key challenges in integrating VLSI technologies into next-generation systems such as smart electronics, IoT devices, automotive systems, and high-speed communication networks.

Throughout the week, participants engaged in interactive discussions, group activities, and research-oriented tasks that strengthened their technical skills and encouraged collaboration. The FDP empowered faculty to explore innovative applications and prepare students for careers in semiconductor and embedded system fields.

The program concluded with a valedictory ceremony where certificates were distributed to the participants. Dr. D. Rupa Kumar expressed appreciation to the management, resource persons, and entire organizing team for their dedicated efforts in ensuring the success of the FDP.

Overall, the program provided an excellent platform for professional development, helping faculty stay aligned with emerging technological advancements and supporting MLRITM’s commitment to academic excellence in Electronics and Communication Engineering.