About the Institution

SRM Institute of Science and Technology (SRMIST) is one of the top ranked universities in India with over 52000 plus students and 3,200 plus faculty members, offering a wide range of Undergraduate, Postgraduate and Doctoral Programs in Engineering, Medicine & Health Sciences, Management, Science & Humanities, Law, and Agricultural Sciences. Over the last three decades, it has set standards in experiential learning and knowledge creation across various fields. SRMIST is the first private university in India to launch a nano-satellite, named SRMSAT, into space, on board the PSLV-C18 from Sriharikota on October 12, 2011. The institution has grown up through international alliances and collaborative initiatives to achieve global excellence. Over 200 students are sponsored for 35-foreign Universities like MIT, Carnegie Mellon, UC Davis, Warwick and Western Australia annually. SRMIST is accredited by NAAC with the highest Grade of 'A++'. SRMIST has been ranked No. 2 among private Universities by MHRD under ARIIA rankings. QS, the world renowned international ranking agency, has rated SRMIST as a "4 Star", institute with "5 Star" ratings in Teaching, Employability and Inclusiveness and QS-IGAUGE has awarded Diamond Rating to SRMIST. UGC/MHRD classified SRMIST as category 1 university and enjoys 12B status too under UGC Act. SRMIST has been continually and consistently ranked by QS and THE (Times Higher Education) under various categories-World, Asian, BRICS and Indian.

Department of ECE

The Department of Electronics and Communication Engineering (ECE) was established in 1991 under the affiliation of University of Madras. It offers one UG Program, three PG programs and Doctoral Program. It has 18 well equipped labs. It has ample resources in computing equipment, including personal computers running the full suite of CADENCE, Synopsys TCAD, OrCAD, Mentor Graphics, MATLAB and Network Simulation Software. It has USRP-RIO SDR hardware, Vector Signal Generator & Analyzer, Network Analyzer and ADS & HFSS tools.

The department has strong collaboration with industries such as Central Electronics Engineering Research Institute (CEERI) Chennai, Nuvoton Technology Corporation, Taiwan, National Instruments, ALTERA and ARM, Bangalore. It received research grants from Department of Science and Technology (DST) under Funds for Improvement of Science and Technology (FIST), Defense Research and Development Organization (DRDO), Board of Research in Nuclear Science (BRNS) and Indian Space Research Organization (ISRO). Also received, Full-Time & Part-Time Fellowships under Visvesvaraya PhD Scheme for Electronics & IT from MeitY, GoI. The B. Tech (ECE) program of Kattangulathur campus of SRMIST is accredited by EAC of ABET, USA. www.abet.org.

Research & Development Programmes

The Department is known for its high-impact, reputed journal publications and multidisciplinary research. There are 50 plus research scholars as of now, and 30 plus have been awarded the Ph.D degree from our department. 12 Patents have been Awarded/Published and 37 filed in the areas of ECE by the Faculty. Research in ECE Department is carried out in the following key areas with the focus on, but not limited to:
- VLSI & RF Circuit Design
- Microwave communication & Antenna Design
- Communication Systems – Wireless communication, Photonic Communication, Under water wireless communication
- Signal & Image Processing
- MEMS Technology, Nano-Electronics & Opto-Electronics,
- Optical Wireless & Network Communications , Optical Sensors
- Embedded Systems

About the FDP

This FDP is organized to foster exchange of technical details from industry experts, research challenges from academic eminent researchers from premium institutes and labs, schemes and facilities support in our country towards semiconductor technology.

- Aims to highlight the technology, process involved from wafer to chip.
- Include all areas of chip design, fabrication, manufacturing, reliability and testing.
- Design issues and challenges in the chip design.
- Tools/packages which facilitates the design and verification.

Participants

Faculty members, Research Scholars, Students of Engineering/ Technology/ Sciences, Industry practitioners.

Expert Lectures, but not limited to.
- VLSI Design - Controlling Edge of Technology.
- Design of Safety Critical Applications & Test Challenges.
- Transaction level modelling with System C for system level design.
- Screen-printed Sensors for Biomedical Applications.
- Design verification methodologies in consumer electronics and Aerospace industry.
- Hardware architectures and their FPGA implementation for compute-intensive tasks.
- Understanding the impact of surface roughness on the performance of next generation copper interconnects.
- FPGA design and HDL.
- Design techniques for the design of high speed analog to digital converters.
- An empirical study of RF Analog IC design.
- Xilinx Vivado Design Suite & FPGA Boards.
- Clock Tree Synthesis & Optimization Methodologies for Low Power Design.
- Semiconductor ATE Software & Hardware Technology.
- Power Aware Verification • Deep Submicron Design & Test Challenges.

Last date for Registration: December 12, 2020
- Participation certificate will be provided after completion of FDP

Chief Patrons

- Dr. T.R. Parivendhar, Founder Chancellor, SRMIST
- Mr. Ravi Pachamoothoo, Pro-Chancellor (Admin), SRMIST
- Dr. P. Sathyanarayanan, Pro-Chancellor (Academics), SRMIST
- Dr. R. Shivakumar, Pro-Chancellor, SRMIST

Patrons

- Dr. Sandeep Sancheti, Vice-Chancellor, SRMIST
- Dr. N. Sethuraman, Registrar, SRMIST
- Dr. C. Muthamizhchelvan, Pro-VC (E&T), SRMIST
- Dr. K Ramaswamy, Director (Research), SRMIST
- Dr. T.V. Gopal, Dean (CET), SRMIST
- Dr. B. Neppolian, Dean (Research), SRMIST

Advisory Committee

- Dr. Shanthi Prince, Professor/ HOD, Dept. of ECE
- Dr. B. Ramachandran, Professor, Dept. of ECE
- Dr. R. Kumar, Professor, Dept. of ECE
- Dr. Aruna Priya, Professor, Dept. of ECE
- Dr. T Rama Rao, Professor, Dept of ECE

Organising committee

- Dr. A. Ruhan Bevi, Associate Professor
- Dr. J. Selvakumar , Associate Professor
- Dr. P. Eswaran, Associate Professor
- Dr. V. Nithya , Associate Professor
- Dr. M. Sangeetha, Associate Professor
- Dr. P Vijayakumar, Associate Professor
- Dr. E Chitra , Assistant Professor
- Dr. V. Sarada, Assistant Professor
- Dr. A. Maria jossy, Assistant Professor
- Dr. B. Srinath, Assistant Professor
- Dr. S. Krithiga, Assistant Professor
- Mrs. Ferents Koni Jiavana, Assistant Professor
- Mrs. K. Suganthi, Assistant Professor
- Mrs. S. Kayalvizhi, Assistant Professor
- Mr. P. Prabhu, Assistant Professor

Resource Persons

- Prof. CM Tang , Chairman(CVLSI), University Tunku Abdul Rahman , Kampar, Malaysia.
- Dr. Nishit Gupta, Scientist, R&D, MeitY
- Mr .S S Prasad, Senior Manager, AMS Technologies
- Dr. Jai Gopal Pandey ,Principal Scientist, CEERI
- Dr. Rohit Sharma, Associate Professor IIT Ropar
- Dr. Ankesh Jain, Assistant Professor, IIT Delhi
- Dr. Kalpana Sethu , Assistant Professor, National Taipei University, Taiwan
- Mr. Anandavel Nagendra Kumar, Senior Product Engineer, Micron Technology, USA
- Mr. Pavan Kumar Kalangi, Design Engineer, Intel
- Mr . Ramesh R, Staff Engineer, Qualcomm Technologies
- Mr. Vijendra V, Application Engineer, CoreEL Technologies
- Mr. Sai Krishna, Application Engineer, Entuple Technologies
- Mr. Rahul T K, Lead Engineer, Altran Technologies
- Mr. Anand Mukhopadhay, MathWorks
- Mr. Leela Krishna Thota, Sr R&D Engineer-II, Synopsys
- Ms. Poornima, Research Associate , ISRO
- Mr . Somanathan Sundaram , Architect, NXP Semiconductors
- Mr. Sreenivasa Rao, Designer Engineer-II, Synopsys
- Dr. Shirly Edward, Associate Professor, SRMIST

Convenor
Dr. S. Malarvizhi,
Professor, Dept. of ECE

Co-ordinator
Dr. J. Manjula, Associate Professor, ECE

Contact
The Co-ordinator, (IADICD-2020)
ECE dept.,SRM Institute of Science and Technology.
E-mail: malarvig@srmist.edu.in , manjulaj@srmist.edu.in.
Phone : +919884431270, +919444383927

Six Days Faculty Development Programme on

Insight of Analog and Digital IC Design : Industry and Research Perspective (IADICD -2020)

14th – 19th December 2020

Organised by
DEPARTMENT OF ECE
Faculty of Engineering & Technology
SRM Institute of Science and Technology,
Kattankulathur – 603 203
Phone: 044-27417868, 27417828
Website : www.srmist.edu.in

FOR FDP REGISTRATION
No Payment Required
https://tinyurl.com/IADICD-2020

In Association with

IEEE SRM STUDENT BRANCH — Institution of Electronics & Telecommunication Engineers — IET — CoreEL Technologies Enabling Excellence — SRM Innovation and Incubation Centre — INSTITUTION'S INNOVATION COUNCIL (Ministry of HRD Initiative) — ENTUPLE TECHNOLOGIES