



FACULTY DEVELOPMENT PROGRAMME

on

Recent Trends in VLSI and MEMS for IoT Applications

(November 15th-24th, 2021)

Organized by



E & ICT Academy, NIT Warangal

(Sponsored by Ministry of Electronics and Information Technology (MeitY), GOI)

in association with

KONERU LAKSHMAIAH EDUCATION FOUNDATION

(Deemed to be University)

Department of Electronics & Communication Engineering

Preamble:

Electronics & ICT Academy" was set up at NIT Warangal with financial assistance from MeitY, GoI. The jurisdiction of this academy is Telangana, Andhra Pradesh, Karnataka, Goa, Puducherry and Andaman & Nicobar Islands. The role of this academy role is to offer Faculty Development Programmes in standardized courses and emerging areas of Electronics, Information Communication Technologies, training & consultancy services for Industry, Curriculum development for Industry, CEP for working professionals, Advice and support for technical incubation and entrepreneurial activities.

This Faculty Development Programme (FDP) is devoted to address the need to enhance the knowledge about the latest technologies pertaining to **Recent Trends in VLSI and MEMS for IoT Applications** is being conducted at **KLEF, Guntur**. The course is handled by academicians and industry experts.

Major Course Contents:

- VLSI Foundations: The Future of Microelectronics, The Integrated Circuit Era, MOS VLSI Technology, Basics of MOS Transistor, Overview of IC Design Aspects of IC Design, Introduction and Device Characteristics, Analog IC Design, Digital IC Design.
- Introduction to EDA tool, Op Amp Design and Compensation, Mixed Signal Design/RF IC Design, FPGA/VHDL.
- MEMS Foundations: MEMS and Microsystems, Typical MEMS and Microsystem Products, Evolution of Microfabrication, Microsystem and Miniaturization, Working principles of Microsystems, Materials for MEMS and Microsystems.
- VLSI and MEMS for IoT: Applications in Healthcare Industry, Industrial Products etc. VLSI implications in IoT, Design and aging challenges for FinFET and IoT applications, Exploring transistor aging in IoT applications.

Faculty conducting this programme:

The programme will be conducted by the faculty members from NIT Warangal, and KLEF. Academicians in the concerned field from IITs/NITs/IITs are invited to deliver lectures in the programme. Speakers from industries are also expected to deliver as part of the programme.

Eligibility:

The programme is open to the Faculty of Engineering Colleges, MCA Colleges, other allied disciplines, and Industry personnel working in the concerned /allied discipline can also attend.

Selection Criteria:

Selection will be done based on **first-come-first-serve** basis to a maximum number of 100. The list of selected participants will be intimated through e-mail. In case a candidate is not selected, the DD will be sent back. Candidates will be issued satisfactory certificates on successful completion of the

course. Reservations are followed for selecting candidates as per GOI norms.

About NIT Warangal:

National Institute of Technology, Warangal is the first among 17 RECs setup as joint venture of the Government of India and the state government. Over the years the college has established itself as a premier Institute, imparting technical education of a very high standard leading to the B.Tech degrees in various branches of engineering, M.Tech. and Ph. D. programs in various specializations. All B.Tech and M.Tech programmes of NIT Warangal are NBA accredited.

About Koneru Lakshmaiah Education Foundation:

The Koneru Lakshmaiah Charities was established as a trust in the year 1980 with its official address at Museum road, Governerpet, Vijayawada and started KL College of Engineering in the Academic year 1980-81. KLEF was established in 1980-81, as KL College of Engineering, which was upgraded to KL College of Engineering Autonomous in 2006 by UGC, and was declared as a Deemed to be University in 2009 by UGC, MHRD Govt. of India. In 2012 as a Deemed to be University the institution was accredited by NAAC with A Grade and later in 2018, was re-accredited by NAAC with A++ grade.

About the Department:

Department of ECE was established in 1983. The department has strong back-up of 234 faculty members, specialized in core areas of ECE. Among 87 faculty members are Ph.D holders and 121 faculty members are pursuing PhD. Department houses several rich industry experience faculties to cater the industry needs into academics. The Department has a total of 7 State of the Art laboratories, 2 Centers of Excellence and 8 Research Centers which are well equipped to the highest level of sophistication and cater to the needs of UG, PG and PhD students. These labs have specific emphasis on Research and Development activities.

Registration Fee and Payment details:

Faculty and Research Scholars	Rs. 750 /-
Industry Participants	Rs. 2250 /-
Online payment Details:	
Account Name: Electronics & ICT Academy	
NITW Account No: 62423775910	
IFSC: SBIN0020149	

How to apply:

Participants are required to fill the online registration form through the following link:

<https://forms.gle/PHLRxS1UzkNyh9x48>

Calendar dates to Note:

Last date to submit Registration	05-11-2021
Selection of Applicant by E-mail	12-11-2021

FDP duration	15-11-2021 to 24-11-2021
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Department of Electronics & Communication Engineering

1. Name :
2. Designation :
3. Institution :
4. Email :
5. Reference No :
Bank :
Date :
Amount :

6. Address for Correspondence :

7. Educational Qualification :
8. Subjects taught so far :

9. No. of refresher courses/workshops attended:

10. Experience (in years):

Teaching: Research: Industry:

11. Do you belong to SC/ST: YES / NO

Declaration:

The information provided is true to the best of my knowledge. If selected, I agree to abide by the rules and regulations of the FDP and shall attend the course for the entire duration. I also undertake the responsibility to inform the Coordinator in case, I am unable to attend the course.

Applicant

Signature of the

SPONSORSHIP CERTIFICATE:

Dr. /Mr. /Ms.
is an employee of our Institute/Organization and is hereby sponsored to participate in the FDP on **“Recent Trends in VLSI and MEMS for IoT Applications”**, sponsored by Electronics & ICT Academy during **November 15 - 24, 2021 at Koneru Lakshmaiah Education Foundation (Deemed to be University)**, Guntur, Andhra Pradesh.

Signature of Head of Institution
(With seal)

Address for correspondence

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Post your application form (if it becomes offline)

Dr. K. Srinivasa Rao
Professor and Head of VLSI & Microelectronics Research Group
Electronics and Communication Engineering,
Koneru Lakshmaiah Education Foundation ,
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For more details about Electronics & ICT Academy, NIT, Warangal, please visit: <https://nitw.ac.in/eict>

For more enquiries please contact:

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