



Science and Engineering Research Board (SERB)
Department of Science and Technology (DST)
Govt. of India



Two Days, SERB sponsored National Workshop on



"Recent Trends in MEMS devices for IOT Applications (27th – 28th December 2019)

Sponsored by:

Science and Engineering Research Board,
Department of Science & Technology,
Government of India
New Delhi, India

Organised by:

Microelectronics Research Group,
Department of ECE,
KLEF (Deemed to be University),
Vaddswaram, Guntur, India.

About the Organisation

KLEF (deemed to be University) is a pioneer in the field of engineering education and research in private sector. It was established as Koneru Lakshmaiah College of Engineering in the year 1980, situated in a spacious 60 acre campus on the banks of Buckingham canal of river Krishna, 8 Km away from Vijayawada. The institute is accredited by National Assessment and Accreditation council (NAAC) of UGC with A grade K L University has knowledge base stems with the presence of eminent and highly qualified academic staff, numbering 600+ out of which 155+ doctorates and 300+ pursuing Ph.D is one of the best for any engineering institute. KLU offers 10 UG programs, 14 PG programs, 28 Integrated degree programs, dual degree programs and in addition to this research program is been offered in 14 disciplines.

Research at KLEF

KLEF places special emphasis on research. DSIR of Govt. of India recognized KLU as a Scientific and Industrial Research Centre. KLU has the credit of housing world class Excellency centres to boost research in emerging areas like VLSI, Nanotechnology, Robotics, Nuclear fusion, Reactor design, Automobile, Aero Space Structures etc. In order to extend R&D and consultancy activities within the university 43 faculty research groups are functioning effectively. Funded projects of worth more than 10 Crores are sanctioned & more than 5 Crores are in pipeline, which speaks about the strength of the outsourced research at KLU.

About the Workshop

The primary goal of the workshop is to promote research and developmental activities in rapid advancements in Microelectronics based devices for reconfigurable antennas & IOT Applications. This creates opportunity to equip with the ongoing Technological development in the area of RF MEMS. The workshop is intended to provide a vibrant opportunity for Electronics, Electrical, Instrumental & Mechanical students and research scholars to enrich their knowledge in the area of RF MEMS devices for IOT.

About the Department

Department of Electronics & Communication Engineering was established in the year 1980, has grown now to be a department with 110 Faculty members and over 2000 undergraduate and 200 Post Graduate students and about 200 research scholars. As the largest academic department of University, Department of ECE and its Faculty are involved in an exceptional range of Educational, Intellectual and Research activities. We have grown over the years in many directions and currently recognized as a "Premier Teaching and Research Department" of the KL University and also, we recognized by DST under FIST program in the year 2012. Being as FIST-DST recognized department, recently, we purchased the 18 GHz Network Analyser, 20 GHz Spectrum Analyser and HFSS Suite etc., In addition, the department is well equipped with various laboratories catering the UG and PG Programs and other research centres in VLSI, Communication Systems, Atmospheric Sciences and MEMS.

Topics to be Covered

- Overview on MEMS Devices for IOT applications
- MEMS Inertia sensors
- RF MEMS Switches,
- RF MEMS Phase Shifters
- RF MEMS Sensors for Reconfigurable Antennas
- Reconfigurable Antennas for 5G applications



**Dr. Brajesh Kumar
Kaushik**
Associate Professor
Department of ECE
IIT, Roorkee

Research Areas:
Nanotechnology Design, Nanoscale
Interconnects and Devices, Spintronics



Dr. Sukomal Dey
Asst. Professor
Electrical Engineering
IIT, Palakkad

Research Areas:
Microwave and Millimeterwave Integrated
Circuits, Broadband and reconfigurable
Antennas, RF MEMS at Millimeter and
Submillimeter wave frequencies



Dr. T. Shanmuganantham
Assistant Professor
Department of Electronics
Engineering,
Pondicherry University

Research Areas:
Antennas, Microwave & Millimeter-wave
Engineering, MEMS/NEMS, Microwave
Integrated Circuits, Meta Materials,
Computational Electromagnetics, EMI/EMC,
RF MEMS/Bio-MEMS, RF IC Design

Participants

Faculty members, research scholars, UG/PG students and Professionals from R&D Institutions/ Organizations.

Registration Fee Details

R & D / Industries	1000/-
Faculty & Research Scholars	600/-
Students	300/-
Note: 100 less for IEEE/IETE/ISTE/CSI Members.	

CHIEF PATRON

Er.K.Satyanarayana, President, KLU

PATRONS

Sri K Raja Harin, Vice-President
Sri K L Havish Vice-President
Dr.M.Rama Murthy, Chancellor
Dr. L S S Reddy, Vice-Chancellor
Dr. R.R.L. Kantam, Registrar(I/C)
Dr. K.Subba Rao, Principal, KLUCE
Dr.K.L.Narayana, Dean (R&D)
Dr.V. Rajesh, Principal, ASC & Dean (Faculty Affairs)
Dr.Pranveer Singh Satvat, Dean (Academics)
Dr.Habibulla Khan, Dean (Student Affairs)

University Advisory Committee

Dr.J K Singh, Associate Dean- Sponsored Research
Dr. B.T.P Madhav, Professor & A/Dean,
Dr.G.V. Subba Rao, Professor & RPAC
Dr.I.Govardhini, Professor & RPAC

Organizing Committee

Dr. Hari kishore
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Dr. GRK Prasad
Mr Syed Shameem
Mr G.V. Ganesh
Dr. Fazal Noor Basha
Dr. Sunithamani
Dr. C. Santhosh
Dr. E. Ravindran
& other members of Microelectronics Research Group.

Convener

Dr. K. Srinivasa Rao
Professor
Head of MERG
Department of ECE

Co-Convener

Mrs. K. Girija Sravani
Assistant Professor
Department of ECE

Filled in registration form along with DD in favour of "Registrar, KL University" payable at Vijayawada to be sent to Convener: Dr. K.Srinivasa Rao, Professor & MERG Research Group Head Department of ECE