

ELECTRONICS ENGINEERING DEPARTMENT

**SOCIETY FOR
ELECTRONICS
EXPLORATION &
DEVELOPMENT**



2019-20

DEPARTMENTAL MAGAZINE



INSTITUTE OF ENGINEERING AND TECHNOLOGY, LUCKNOW



VISION

To produce manpower in the field of Electronics and Communication Engineering, capable to compete with that elsewhere and to make the department a center of excellence in the field of Signal Processing and Microelectronics.

MISSION

- M1:** To develop the ability among students and understand concepts of core graduate electronics and communication engineering.
- M2:** To create center of Excellence to meet global research and development challenges
- M3:** To build student community with professional and ethical standards in thrust areas so as to meet industry requirements.

PROGRAM EDUCATIONAL OBJECTIVES (PEOs)

- PEO1:** Graduates of the programme will have an educational experience that inspires them to exhibit leadership and team building skills and have successful careers in their chosen technical or professional domain.
- PEO2:** Graduates of the programme will continue to learn and adapt in a constantly evolving society and contribute to the society in a professional and ethical manner.
- PEO3:** Graduates of the programme will inculcate good technical and professional knowledge according to requirements of industries and higher studies.
- PEO4:** To inculcate the spirit of innovation / creativity, independent thinking, risk taking ability, entrepreneurship and attitude to approach challenges with confidence.

PROGRAM SPECIFIC OBJECTIVES (PSOs)

- PSO1:** An ability to understand the concepts of basic Electronics & Communication Engineering and to apply them to various areas like Signal processing, VLSI, Embedded systems, Communication Systems, Digital & Analog Devices, etc.
- PSO2:** An ability to solve complex Electronics and Communication Engineering problems, using latest hardware and software tools, along with analytical skills to arrive cost effective and appropriate solutions.
- PSO3:** **Wisdom** of social and environmental awareness along with ethical responsibility to have a successful career and to sustain passion and zeal for real-world applications using optimal resources as an Entrepreneur.

ANNUAL REPORT (2019-20)



Executive Committee

Following students of III year have been nominated as the members of Executive Committee of SEED for the session 2019-20

Sr.No.	Name	Branch	Post
1	Shubham Panwar	EC/3rd	Coordinator
2	Anamika Singh	EI/3rd	Coordinator
3	Jhalki Chauhan	EC/3rd	Treasurer
4	Amit Rouniyar	EC/3rd	General secretary
5	Mohil Gupta	EC/3rd	Technical coordinator
6	Shubham Singh	EC/3rd	Member
7	Vikas Gupta	EC/3rd	Member
8	Nitin Yadav	EC/3rd	Member
9	Arpit Palliwal	EC/3rd	Member
10	Pakhi Gupta	EI/3rd	Member
11	Anand Singh	EI/3rd	Member
12	Vishal Yadav	EI/3rd	Member
13	Shivanshi Gupta	EC/3rd	Member
14	Prince Gupta	EC/3rd	Member

Dr. Subodh Wairya
Prof. & Head of Department

TEACHER'S DAY CELEBRATION 2019

Students of the department prepared a lively program to pay their respect to their teachers and all staff members on 5th September, for the Teachers Day Celebration. A beautiful invitation and arrangement was done by the students . Under the SEED Society, such events are regularly organised to maintain the camaraderie between students, academic and non-academic staff.



FACULTY DEVELOPMENT PROGRAMS

This year the Electronics and Communication Engineering department organised three FDPs in which Dr Rajiv Kumar Singh was the convener. These FDPs are listed below

Sr.no	Topic	Date held on
1.	Faculty Development Programme (FDP) on IPR,Entrepreneurship, and Innovation (IPREI-19)	01 st – 05 th June, 2019
2.	Faculty Development Programme (FDP) ON Advances in Microwave Engineering (AME-19)	08 th – 12 th June 2019
3.	Faculty Development Programme (FDP) On Recent Trends in High Frequency Devices and Applications (RTHFDA-2019)	17 th – 21 st June, 2019

01st – 05th June, 2019

The Electronics Engineering Department of Institute of Engineering and Technology (IET), Lucknow organized TEQIP-III sponsored 05-Day Faculty Development Programme on “IPR, Entrepreneurship, and Innovation (IPREI-19)” during 1st - 5th June, 2019. The FDP was designed to bring researchers, academia and technocrats from different parts of the country to a common gathering for exchanging and sharing the recent developments in the field of Intellectual Property Rights (IPR), Entrepreneurship, and Innovation.

08th – 12th June 2019

Dr. APJ Abdul Kalam Technical University, Lucknow organized AKTU-AICTE sponsored 05 Day Faculty Development Programme on “Advances in Microwave Engineering (AME-19)” during 08th – 12th June 2019. The FDP was designed to bring researchers, academia and technocrats from different parts of the country, to a common gathering for exchanging and sharing the recent developments in the field of state-of-art microwave components, devices, and systems for high information density communication, radar system, electronic warfare, military application, civilian applications, etc. The experts from prestigious Universities, IITs, DRDO and CSIR laboratories, etc. presented their deliberations in the program.

17th – 21st June, 2019

The Electronics Engineering Department of Institute of Engineering and Technology (IET), Lucknow organized TEQIP-III sponsored 05-Day Faculty Development Programme on “Recent Trends in High Frequency Devices and Applications (RTHFDA-2019)” during 17th – 21st June, 2019. The FDP was designed to bring researchers, academia and technocrats from different parts of the country, to a common gathering for exchanging and sharing the recent developments in the field of state-of-art microwave components, devices, and systems for high information density communication, radar system, electronic warfare, military application, civilian applications, etc. The experts from prestigious Universities. Institutes, Government bodies, Dept. of Science & Technology, Council of Science & Technology UP, etc. presented their deliberations in the program.

MEDIA GALLERY



EXPERT LECTURE SERIES

An expert lecture on Micro-Electro-Mechanical systems was conducted under IEEE student chapter and SEED on 05th April,2019 . It was organised for the undergraduate ,post graduate students, researchers and faculty. Apart from that Phase III of TEQIP is a Government of India Project assisted by World Bank under MHRD for improvement of quality of technical education in the stake holder technical institutions. In TEQIP-III, a twinning arrangement has been established between Pondicherry Engineering College, Puducherry (*Mentor Institution*) and Institute of Engineering and Technology, Lucknow (*Mentee Institution*) to jointly undertake various activities envisaged to achieve specified targets. Special expert lectures were organized under this program which was beneficial to students and research scholars. The details of the same are mentioned below:

Sr.no	Topic	Date held on
1.	Expert lecture on :Micro- Electro-Mechanical Systems	05 th April,2019
2.	Expert lecture on :An insight into wireless communications and networks	05 th August ,2019
3.	Expert lecture on :Transforms and its applications	05 th August ,2019
4.	Expert lecture on :Research opportunities in wireless communications	06 th August ,2019
5.	Expert lecture on :Finite word length effects in digital filters	06 th August ,2019



**INSTITUTE OF ENGINEERING AND TECHNOLOGY
LUCKNOW**



**SOCIETY FOR ELECTRONICS EXPLORATION AND
DEVELOPMENT (SEED)**

Presents

Expert Lecture Series

MICRO-ELECTRO-MECHANICAL-SYSTEM



BY: Prof. Rudra Pratap

(Pd.D Cornell University, M.S. University of Arizona,

B.Tech IIT Kharangpur)

Professor at CeNSE, IISc Bangalore

Venue: EC-310 Time: 2pm onwards



**INSTITUTE OF ENGINEERING AND TECHNOLOGY
LUCKNOW**



**SOCIETY FOR ELECTRONICS EXPLORATION AND
DEVELOPMENT (SEED)**

Presents

Expert Lecture Series



Research Opportunities and insight into

WIRELESS COMMUNICATION

BY: Prof. G. Nagarajan

(B.E., M.Tech., Ph. D., MISTE, MIEEE)

Professor, ECE, Pondicherry Engineering College

Venue: EC-310 Time: 10am onwards



**INSTITUTE OF ENGINEERING AND TECHNOLOGY
LUCKNOW**



**SOCIETY FOR ELECTRONICS EXPLORATION AND
DEVELOPMENT (SEED)**

Presents

Expert Lecture Series

**Finite Word Length effects in Digital Filter,
Transforms & Its Applications**



BY: Prof. P. Ramesh Babu

(B.Tech., M.E., Ph. D.)

Professor, EIC, Pondicherry Engineering College

Venue: EC-311 Time: 10am onwards

Date: 05.08.2019

ICDST 2019

International Conference on Defense and Space Technologies, 2019 was organized as a 3 day affair from 23rd to 25th of August 2019 at Institute of Engineering and Technology, Lucknow. The inaugural session included lamp lighting by the Chief Guest, Honorable Vice Chancellor (AKTU) Prof. Vinay Kumar Pathak. Other guests of honor included Prof. Y. N Singh and Prof. S.N Singh from IIT Kanpur, Prof K.T.V Reddy from IETE, New Delhi and IET's Director Dr.H.K. Paliwal. After the felicitation of the guests and dignitaries by presenting a bouquet, the audience witnessed address from the Invited speakers.

ICDST -2019 is supported by TEQIP-3 and technically co-sponsored by IEEE-UP Section. The convener of the conference was Dr.R.C.S. Chauhan of Electronics Department, IET Lucknow.

- Keynote speaker- Prof. T Srinivas

After the keynote address, the conference witnessed lectures by Dr.NileshM Desai, Additional Director of Space Application Center, ISRO Ahmedabad and by Prof C.S.Upadhyay of Aerospace Engineering, IIT Kanpur.

Dr. S.B.Yadav, Scientist H(Retd.) DMSRDE, Kanpur (DRDO), Dr. Santosh Kr.Pandey from MEITY and Prof.K.V.Arya from IITM-Gwalior also delivered their lectures. Tea and lunch breaks were provided and separate arrangements were made for the faculties and the participants.

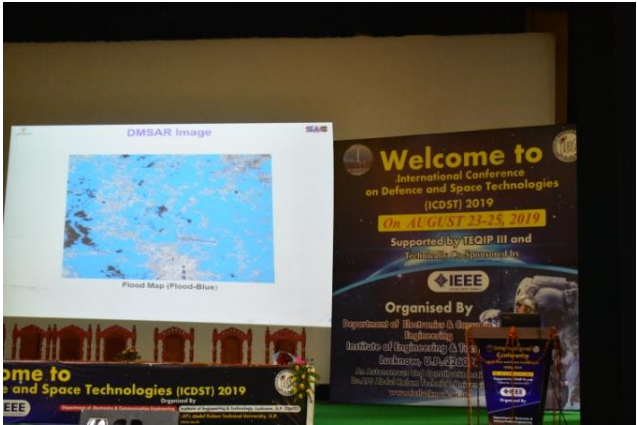
The second day of the conference witnessed six invited lectures including one video conferencing lecture held by Prof. Jaideep Srivastava from University of Minnesota, Minneapolis, USA. The other speakers were Prof.R.Gunasundary of Pondicherry Engineering College, Puducherry, Dr.K.Jayathilakan, DFR Lab, DRDO Mysore, Prof. Ashish Dutta, Prof.K.S Venkatosh from IIT Kanpur and Prof. Krishna Raj of HBTU, Kanpur.

On the 2nd day of ICDST-2019, two separate parallel paper presentation sessions were organized; first on Defense and Space Research and the latter on Electronics and ICT. 8 papers were presented by authors from Defense and Space sector while 6 papers were presented in Electronics and ICT session. Awards for the 'Best paper of the track' were also given.

Day 3 will also witness the similar paper presentation sessions alongside with 5 invited lectures. The speakers will be Dr.Virendra Kumar Goswami, Ex-wing commander IAF, Prof.Ashutoshkumar Singh from NIT Kurukshetra, Ms.Poonam Tyagi and Ms.Leenakohli Kapoor, both from SG, Space Application Center, ISRO Ahmedabad and the last but not the least, Mr.Asif Siddiqui, Head Ground-Station, ISRO Lucknow.



MEDIA GALLERY



Robotics Club Inauguration

The Robotics Lab was established with an objective to impart practical knowledge and technical skills regarding the field of robotics without emptying the pockets of young aspiring minds of IET, and to provide them with an apt work space to explore the field of robotics. This initiative took by the Robotics club was highly appreciated by the students as well as the faculty. The club hit another milestone when our respected HOD, Electronics and Communication Engineering department, Dr. Subodh Wairya inaugurated the lab along with other faculty members on the occasion of Teachers Day on September 5,2019.

MEDIA GALLERY

