## **One-week Online Short-Term Training Program**

on

# "Emerging Nanoscale Devices, Circuits, and Its Applications" (NANODC-21)

Duration: May 10-14, 2021.

Coordinator – Dr. Sumit Kale, Assistant Professor, Department of ECE, DTU Co-coordinator- Mr. Sachin Dhariwal, Assistant Professor, Department of ECE, DTU

## ORGANIZING COMMITTEE

Patron Prof. Yogoth Singh Vice Chancellor, DTU Delhi

Convenor
Prof. N S Raghava
HOD, ECE Dept., DTU Delhi

Coordinatur Dr. Sumit Kale Assistant Professor ECE Dept., DTU Delhi

Co-Coordinator
Mr. Sachin Dhariwal
Assistant Professor
ECE Dept., DTU Delhi

## ABOUT THE INSTITUTE

Delhi Technological University located in Delhi is a premier institution of Engineering and Technology in India. The university plays a key role in the national and global knowledge network, empowering India with the wings of knowledge and innovation. The university aims to imbibe a culture of methodical research and to develop a scientific temper for the integration of science, engineering and management DTU has been ranked amongst the top institutions in multiple reputed national and international surveys.

## ABOUT THE DEPARTMENT

The Department of Electronics and Communication Engineering has experienced considerable growth since its inception in 1976. The vision of the department is to focus on the incubation of innovations in the areas of electronic design/ fabrication, and communication technologies, which are needed to address the growing challenges of tomocrow. The overall aim is to harbor a sustainable, and continuously evolving accentific, technological and educational environment which is both internationally-adapted and industry relevant.

## OBJECTIVE OF THE STTP

The aim of this STTP is to provide a deep insight about basic concepts, technology and advancement of Emerging Nanoscale Devices and Circuits. In addition, it explores various applications of nanoscale semiconductor devices for future computing and information processing devices and systems. It also focuses on the fundamentals of nanoscale device design, methodology and testing. It will further give impetus to the participants towards bringing out newer and efficient techniques. Moreover, this short-term training program explore this area, the future scope of the technology, the issues, the challenges, and research opportunities.

## One-week Short Term Training Program

(Online)

OF

"Emerging Nanoscale Devices, Circuits and Its Applications"

> (NANODC-21) May 10-14, 2021



Organized by

Department of Electronics and Communication Engineering

Delhi Technological University Bawana Rood, Shahbad, Daulatpur Delhi-110042

#### TOPICS TO BE COVERED

- ♦ Organic Thin Film Solar Cell Technology
- ◆ Devices and Circuit for Neuromorphic/Inemory Computing
- High Performance Organic Transistor and Memory for Flexible Electronics Applications
- ♦ 2D Materials Based Gas Sensors
- ♦ Device-circuit interaction in NCFETs
- Reliability and security issues in VLSI circuits and systems
- ♦ Device Random Fluctuations in Nano-scale MOSFETs
- ♦ Techniques for Broadband circuit design
- ◆ GaN Based Power Amplifier Design
- Neuromorphic Computing: Mapping Neural Networks to Hardware
- Engineering Ga2O3 based nanostructures and thin-film for high-performance deep UV Photodetectors
- Emerging trends in Doping and Junction

## RESOURCE PERSONS

- Prof. Satyabrata Jit, Dept. of Electronics Engineering, IIT (BHU)
- Dr. Jawar Singh, Dept. of Electrical Engineering, IIT Patna
- Dr. Mahesh Kumar, Dept. of Electrical Engineering, IIT Jodhpur
- Dr. Mahendra Sakare, Dept. of Electrical Engineering, IIT Roper
- Dr. Shree Prakash Tiwari, Dept. of Electrical Engineering, HT Jodhpur
- Prof. Anand Bulusa, Dept. of ECE, IIT Roorkee
- Dr. Ambika Prasad Shah, Dept. of Electrical Engineering, IIT Jamma
- Dr. Shubhankar Majumdar, Dept. of ECE, NII Meghalaya
- Dr. Shubham Sahay, Dept. of Electrical Engineering, III Kanpur
- Dr. Ankuth Bag, Bept. of Computing and Electrical Engineering, IIT Mandi
- Dr. Chitrakant Sahu, Dept. of Electronics & Comm. Engineering, MNIT Jaipur
- Dr. Kaushik Nayak, Dept. of Electrical Engineering III Hyderabad

#### REGISTRATION

This STIP is open to the faculty members of AICTE/UGC approved Engineering Institutes/Universities / RAD Labs / Industry person/ FID scholars/ poor graduats and undergrachate indeeds interested to know about the current status, scope and challenges about Enseging Nessocials devices, Circum and their applications.

The interested person should fill the Google form by chicking on the link below: https://forms.gle/dDffWUo1DGL3NJc2RA

#### Important Dates

Lest date of registration: May 7, 2021 Confirmation to the participants: May 9, 2021

## Address for Correspondence

Coordinator Dr. Sumit Kale Assistant Professor ECE Dept., DTU Delhi

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Co-Coordinator Mr. Sachin Disciwal Assistant Professor ECE Dept., DTU Delhi Email: sarkinghanwal Phone: 07737783532

Website http://dm.wr.in/ Note: E-Certificate will be provided to those participants whose attendance will be annium 75% after successful completion of STIP.



