

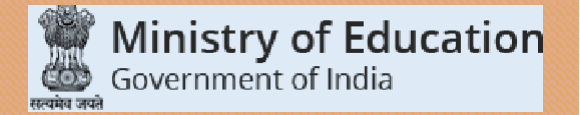


NATIONAL INSTITUTE OF TECHNOLOGY ANDHRA PRADESH

(An autonomous Institute under the aegis of Ministry of Education, GOI)

Tadepalligudem, West Godavari, Andhra Pradesh

Department of Electronics and Communication Engineering



Faculty Development Program (online) on

“RECENT TRENDS IN VLSI AND NANO-ELECTRONICS: THE MATERIALS-BASED DEVICE TECHNOLOGY”

(15th–19th March 2022)

About NIT Andhra Pradesh

National Institute of Technology Andhra Pradesh is the youngest institute among the NITs started by the Government of India, established in the year 2015. Institute offers B.Tech., M.Tech., M.S.(by Research) courses in engineering and Ph.D.(full-time and part-time) program in the school of sciences, engineering, and school of humanities & management.



Electronics & Communication

Electronics and Communication Engineering Department strives to impart quality theoretical and practical education in all aspects of Electronics and Communication. It consists of qualified and scientifically motivated faculty members in all the divisions. All faculty of school have received their doctoral degree from top-ranked institutions in India and abroad. The school presently offers various courses at the UG and PG level and Ph.D. program in all the divisions.

Electronics and Communication Engineering

Currently, the Department offers courses to the I to IV-year B.Tech. students and elective courses to higher semester students. It also offers M.Tech and Ph.D. (full-time and part-time) program. The research interests of the faculty members include Signal and image processing, communication, microwave antenna, VLSI and Nano-Electronics etc.

About FDP

This Faculty Development Program (FDP) on “Recent trend in Nano-Electronics and VLSI: The materials based device Technology” aims to discuss recent advances in the area of VLSI and Nano-Electronics. Further, it provides a platform for young faculty, researchers and students to upgrade their knowledge of research and to interact with experienced researchers. The speakers will provide insights on importance of in the following areas:

- ❖ VLSI Technology and Design
- ❖ Nano-Electronics
- ❖ Emerging nano-materials based devices
- ❖ Recent trend in CMOS devices

Organizing Committee

Chief Patron



Prof. C.S.P. Rao

Director, NIT Andhra Pradesh

Co-Patrons

Dr. P. Dinesh Sankar Reddy

In-charge Registrar, NIT Andhra Pradesh

Convener

Dr. Kiran Kumar Gurrala

Head, Electronics and Communication Engineering

Coordinators

Dr. Sunil Kumar Pradhan

Dr. Ganapathy S

Dr. Kiran Kumar Gurrala

List of Speakers

<p>Dr. Prasana Sahoo Indian Institute of Technology (IIT), Kharagpur <i>Topic: Emerging two dimensional semiconductors for optoelectronic applications</i></p>	<p>Dr. Sunil Kumar Pradhan National Institute of Technology (NIT), Andhra Pradesh <i>Topic: Nano-pore based single nano-particle electronic devices fabricated by lithography techniques</i></p>
<p>Dr. Ravindra Jha Indian Institute of Technology (IIT), Guwahati <i>Topic: Introduction to CMOS Compatible next generation nano-sensors</i></p>	<p>Dr. Ganapathy Saravanavel National Institute of Technology (NIT), Andhra Pradesh <i>Topic: Thin film in unconventional electronics</i></p>
<p>Dr. Vipin Amoli Rajiv Gandhi Institute of Petroleum Technology (RGIPT), Amethi, Uttarpradesh <i>Topic: Skin-inspired Electronics for Emerging Human-Interactive Technologies</i></p>	<p>Dr.K.Lakshmi Ganapathi Indian Institute of Technology, Madras (IIT-Madras) <i>Topic: Nanoscale devices for emerging Technology</i></p>
<p>Dr. Parmod Kumar J C Bose University of Science and Technology, YMCA, Faridabad <i>Topic: Historical development of Microscopic techniques: from micro-electronics to nano-electronics</i></p>	<p>Dr. P Kishore Kumar National Institute of Technology, Andhra Pradesh <i>Topic: VLSI Signal Processing</i></p>
	<p>Mr. Printo Joseph Applied materials Associate technical <i>Topic: Metrological aspect of Silicon Semiconductor Technology</i></p>

Registration Details:

Registration fee is: Rs. 300/-

Last date for registration: **14th March 2022**, Participants will be intimated by **14th March 2022**

E-certificate will be issued to the participants.

Who can attend?

Faculty members, Scientists, Research scholars, Students etc.

Registration link:

<https://forms.gle/X5nn3tfKZTguN4h49>

Account Details:

Account Name: Director NIT Andhra Pradesh

Account Number: 34999496394

Name of the Bank: State Bank of India IFSC Code: SBIN0016305

Branch: Satyavathinagar, Tadepalligudem-534102.

For any queries, please contact:

Dr. Sunil Kumar Pradhan (8800498889)

Dr. Ganapathy S (8310978087)

Email ID: sunilpradha@gmail.com

Schedule of the FDP Program

Date (Time)	Topic	Speaker
15/03/2022 (11 AM-12.30 PM)	Emerging two dimensional semiconductors for optoelectronic applications	Dr. Prasana Sahoo, Indian Institute of Technology (IIT), Kharagpur
15/03/2022 (3 PM-4.30 PM)	Introduction to CMOS Compatible next generation nano-sensors	Dr. Ravindra Jha, Indian Institute of Technology (IIT), Guwahati
16/03/2022 (10.30 AM-12 Noon)	Nano-pore based single nano-particle electronic devices fabricated by lithography techniques	Dr. Sunil Kumar Pradhan, National Institute of Technology (NIT), Andhra Pradesh
16/03/2022 (3 PM-4.30 PM)	Skin-inspired Electronics for Emerging Human-Interactive Technologies	Dr. Vipin Amoli, Rajiv Gandhi Institute of Petroleum Technology (RGIPT), Amethi, Uttarpradesh
17/03/2022 (11 AM-12.30 PM)	Historical development of Microscopic techniques: from micro-electronics to nano-electronics	Dr. Parmod Kumar, J C Bose University of Science and Technology, YMCA, Faridabad
17/03/2022 (3 PM-4.30 PM)	VLSI Signal Processing	Dr. P Kishore Kumar, National Institute of Technology (NIT), Andhra Pradesh
18/03/2022 (11 AM-12.30 PM)	Nanoscale devices for emerging Technology	Dr. K Lakshi Ganapathi, Indian Institute of Technology (IIT), Madras
18/03/2022 (3 PM-4.30 PM)	Metrological aspect of silicon semiconductor Technology	Mr. Printo Joesph Applied Materials, Associate Technical
19/03/2022 (11 AM-12.30 PM)	Thin film in unconventional electronics	Dr. Ganapathy Saravanavel, National Institute of Technology (NIT), Andhra Pradesh
19/03/2022 (3 PM-4.30 PM)	2D Materials based Hall Bar Device	Dr. Sunil Kumar Pradhan, National Institute of Technology (NIT), Andhra Pradesh