

About the Institute

The National Institute of Technology (NIT) Meghalaya is one among the thirty NITs in India established under the NIT Act 2007 (Amended 2012) of the Parliament of India as Institutes of National Importance with full funding support from the Ministry of Human Resource Development, Government of India. The institute is offering B. Tech. programs in Computer Science and Engineering, Electronics and Communication Engineering, Electrical and Electronics Engineering, Mechanical Engineering and Civil Engineering, and M. Tech. programs in Computer Science and Engineering, Microelectronics & VLSI Design and Electrical and Electronics Engineering. The Institute also offers M.Sc. program in Physics, Chemistry, Mathematics and Ph.D. programs in all Departments.

Objective of the FDP

EREC 2021 (Emerging trends in RF and Energy device and Circuits) is all set to revolutionize the academic sector of the country. This workshop will provide an opportunity to learn recent trends and challenges in the area of CMOS Technologies and its beyond from eminent experts from IITs/NITs. The participants will have an exposure to the state-of-the-art in CMOS IC Design, Layout Design, Spice Model, and challenges in advanced semiconductor devices for various applications. Eminent Speakers from the field of Academia will be sharing their expertise on the thematic areas of the program.

Themes

- Ga₂O₃ based power electronics
- GaN based power electronics
- RF Energy Harvesting
- Broadband CMOS circuit design techniques.
- VLSI Architecture for In-memory and Neuromorphic Computing
- Introduction to MEMS and its application to healthcare
- Nanostructured materials for energy conversion devices and its implementation for water splitting
- The role of fuel cells to store renewable energy
- III-As nanostructure for solar cell and GaAs/Sapphire for microwave photonics
- Recent Challenges in LNA Design for Ultra-Wide Band Application
- Physics and Modeling of GaN HEMTs for RF applications
- Emerging Trends in III-Nitride Devices

Programme Monitoring Committee :

Dr. Gitish Kishor Dutta, Dean (Research and Consultancy)

Prof. Gayadhar Panda, Dean (Academic Affairs)

Prof. Harish Chandra Das, Dean (Faculty Welfare)

Dr. Atanu Banerjee, Dean (Student's Welfare)

AICTE Sponsored Online Faculty Development Program

on

Emerging trends in RF and Energy device and Circuits-2021

22nd -26th FEB 2021



Organized by

**NATIONAL INSTITUTE OF
TECHNOLOGY
MEGHALAYA**

***Bijni Complex, Laitumkhrah
Shillong-793003***

Website: www.nitm.ac.in

Sponsored by

AICTE, NEW DELHI

Resource Persons:

Dr. Mahendra Sakare
IIT Ropar

Dr. Jawar Singh
IIT Patna

Dr. G.S. Javed & Dr. Sunil Pandey
Intel

Dr. Ankush Bag
IIT Mandi

Dr. Digbijoy N. Nath
IISc Bangalore

Dr. Rahul Kumar
BITS Pilani

Dr. Manish Mathew
Scientist, CEERI Pilani

Dr. Sutripto Majumdar
Scientist, Chungnam National University,

Dr. Avirup Dasgupta
IIT Roorkee

Dr. Nijwm Wary
IIT Bhubaneswar

Prof. P. K. Tiwari
IIT Patna

Keynote Speaker :

Prof. Soumen Das
IIT Kharagpur

Prof. Sudeb Dasgupta
Professor, IIT Roorkee

Prof. Yogesh Chauhan
IIT Kanpur

Organizing Committee :

Patron :

Prof. (Dr.) Bibhuti Bhusan Biswal
Director, NIT Meghalaya

Coordinator :

Dr. Shubhankar Majumdar
Assistant Professor, NIT Meghalaya

Co-Coordinator :

Dr. Satyendra Singh Yadav
Assistant Professor, NIT Meghalaya

Members:

1. Dr. Rangababu P.
2. Dr. Ch V Rama Rao
3. Dr. Anup Dandapat
4. Dr. Abhishek Sarkhel
5. Dr. Prabir Kumar Saha
6. Dr. Pradeep Kumar Rathore
7. Dr. Shravan Kumar Bandari
8. Dr. Salam Shuleenda Devi
9. Dr. Bishnulatpam Pushpa Devi

Participants:

Participants will be selected among faculty members from the AICTE approved technical institutions (preferably from North-East region).

Registration details :

- There is no registration fee.
- **Registration Link:**

<https://docs.google.com/forms/d/e/1FAIpQLScwLZnCILvGyJGYPy3aShNG5mPW3D9JHs-hKaR7kluEruKGg/viewform>

Last date of registration is 20th February 2021.

Selected participants will be informed in advance through e-mail.

Numbers of seats are limited and seats will be booked on first come first serve basis.

Participation Certificate :

A performance evaluation test will be conducted at the end of the FDP.

Minimum 80% attendance and scoring 60% marks in test are mandatory to get participation certificate.

The participation certificate will be issued online to the eligible participants only.

Mode of FDP :

The FDP will be organized online and the link will be shared with the selected participants well in advance.

Contact Person :

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For More Information go to Link:

<http://aictefd.dp.projects.in/>