

SERB Sponsored High-End Workshop (Karyashala)

On

"Futuristic Trends in Microwave and Millimeter Wave Technologies: An ML Approach"

June 1-7, 2023

Coordinators

Dr. M. V. Swati Dr. Gaurav Singh Baghel



Organized By

Department of Electronics and Communication Engineering National Institute of Technology Silchar Assam-788010, India

(An Institute of National Importance, MHRD, Govt. of India)

About Karyashala

Karvashala is a noble endeayour of Government of India under Accelerate Vigyan Scheme to improve research productivity of promising MTech and PhD students from universities and colleges through high-end workshops on specific themes. These events are sponsored by Science Engineering Board (SERB). These workshops aim to equip the participants with specialized research skills. The workshops are facilitated at institutions of national importance. This High End Workshop on Futuristic Trends and Millimeter Microwave Wave Technologies: An ML Approach is organized by the Dept. of Electronics & Communication Engineering, NIT Silchar. The present event will be physically conducted during May-July, 2023.

Course Highlights

- ISM Applications of Microwaves.
- Metamaterials and Applications.
- Bio-electromagnetics.
- Bio MEMS & RF MEMS.
- Microwave Photonics.
- Smart Antennas.
- Active Phased Array Antennas.
- MIMO Antennas.
- High Freq. Applications on Meta-surfaces.
- AMC Integrated Antennas.
- Microwave Imaging and Sensing.
- Deep/Machine Learning Optimization Techniques.

Eligibility Criteria

- The program is meant to support motivated PG and Ph.D. level students, who are having a strong willingness to get excellence in their scientific and engineering research pursuits.
- The applicants should produce a declaration form along with "No Objection Certificate (NOC)" from the institute for allowing their student to undergo training in the workshop, if selected.

Registration & Certification

- No registration fees will be collected.
- Number of participants are limited to 25.
- Selected Candidates will be informed via.
 Email.
- Accommodation with food will be provided to selected participants.
- Students selected for this workshop are eligible for travel allowance (TA) reimbursement (3rd AC) for their journey to and from NIT Silchar through the shortest route as per SERB and GoI norms.
- Certificates will be provided to the participants after successful completion of the workshop.
- 100% attendance is compulsory.

Click here to register online



Scan the QR Code

About the Institute

National Institute of Technology, Silchar is one of the 31 National Institutes of Technology of India and was established in 1967 as a Regional Engineering College in Assam. In 2002, it was upgraded to the status of National Institute of Technology and was declared as Institute of National Importance under the National Institutes of Technology Act, 2007. NIT Silchar is a fully residential institution situated on the banks of the Barak River and on a sprawling green campus spreaded over 625 acres of land consisting mare than 30 lakes and surrounded by scenic tea estate on the outskirts of Silchar. The institute is having well equipped laboratories with state-of-art research facilities. It helps the research scholars work 24 hours to achieve new heights in technical field. NIT Silchar secured 38th rank in engineering, 50th rank in research institutes, and 76th in overall category, in NIRF 2022 ranking.

About the Department

The Department of Electronics and Communication Engineering is established in 1983 with initial intake of 20 students in UG program. The Department lays special emphasis on research and development activities both on the part of the faculty members as well as the students. At present, the department is offering B. Tech. in Electronics and Communication Engineering and M. Tech. with specialization in Microelectronics, VLSI Design. Communication & Signal Processing, and recently started in THz Communication. The department is also offering Ph.D. programmes in various areas like VLSI, MEMS, Signal Processing, Antenna Design, Microwave Engineering, Communication Engineering, etc.

Chief Patron

Prof. Rajat Gupta, Director, NIT Silchar

Patron

Prof. N. B. D. Choudhury, Dean R & C, NIT Silchar

Convener

Prof. R. H. Laskar, HOD, ECE Dept., NIT Silchar

Coordinators

Dr. M. V. Swati, ECE Dept., NIT Silchar Dr. G. S. Baghel, ECE Dept., NIT Silchar,

Organizing Committee

All faculty members of Department of Electronics and Communication Engineering, NIT Silchar

How to reach NIT Silchar

The city is well connected by Road, Train and Air. There are direct flights from Guwahati, Kolkata and Delhi and trains from New Delhi, Kolkata, Guwahati, and Agartala. Daily bus services are available from Agartala, Guwahati, Aizawl, and Imphal. The Institute is located around 35kms from the Silchar airport, 11kms from the Silchar railway station, 14kms from ISBT Silchar, and 10 kms from the heart of the Silchar town. Pre-paid taxi and auto services are available from Silchar.

Key Note Speakers

- Prof. Animesh Biswas, IIT Kanpur
- Prof. S. Raghavan, Retd. Prof. (HAG), NIT Trichy
- Dr. Ravi K. Gangwar, IIT (ISM) Dhanbad
- Dr. Somak Bhattacharyya, IIT (BHU) Varanasi
- Dr. V. S. Gangwar, Sci.-F, LRDE, DRDO, Bengaluru
- Dr. Sarthak Singhal, MNIT Jaipur
- Dr. Banani Basu, NIT Silchar
- Dr. Taimoor Khan, NIT Silchar
- Dr. Arnab Nandi, NIT Silchar
- Dr. Ranjay Hazra, NIT Silchar
- Dr. Prabina Pattanayak, NIT Silchar
- Dr. Chandrajit Choudhary, NIT Silchar

Important (Last) Dates

Online Registration	17.05.2023
Confirmation to Participants	19.05.2023
Acceptance by Participants	20.05.2023

For queries, please contact:

Dr. M. V. Swati (Coordinator)

Assistant Professor

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Karyashala (High-End Workshop)

Futuristic Trends in Microwave and Millimeter Wave Technologies: An ML Approach

June 1st-7th, 2023

Funded By: Science & Engineering Research Board (SERB), Under the Accelerate Vigyan Scheme **Organized By:** Department of Electronics and Communication Engineering, National Institute of Technology Silchar, Silchar-788010, Assam, India

Registration cum NOC Form

Name of the Participant:
Gender:
Pursuing Degree (P.G. / Ph. D.) & Semester:
Department:
Organization:
Mobile Number:
Email:
I agree to abide by the rules and regulations governing the workshop.
Signature of the Participant Place:
Date:

Mr. /Ms. /Mrs
Institution and is permitted to attend the program.
Signature of the Head of Department and Seal Place:
Date: