

ONE WEEK WORKSHOP

ON

MODERN ANTENNAS FOR PRESENT AND FUTURISTIC WIRELESS COMMUNICATION TECHNOLOGIES

8-13th March, 2021



TEQIP-3

Organized By

**Dept. of Electronics and
Communication Engineering**

**National Institute of Technology
Sikkim**

Ravangla, South Sikkim, India, -737139

Website: www.nitsikkim.ac.in

Under the Aegis of

**TEQIP-III, NPIU
MoE, Govt. of India**

Objective of the Workshop

With the cumulative day by day growth of wireless communication segment, several new and deep-rooted diverse wireless standards need to contemplate and render. Antenna is an integral part of Wireless Communication Systems as it acts as end node of transmitter and front end of receiver section. Design and development of various modern antennas for present and futuristic wireless communication applications such as 5G and beyond, Massive MIMO, Satellite communication, UWB, Cognitive Radio, Radar etc. find notable research attention at present.

The workshop focuses on the modern developments and recent advancements in the domains of Antenna Engineering for RF, Microwave, Millimeter Wave and Terahertz Wave Communication for a diverse application range in Wireless Communication and Satellite Communication. The workshop targets to emphasis on present research progresses in the areas of MIMO antenna, DRA, Reflector Antenna, Periodic Bandgap structures, spacecraft antenna, adaptive array antennas etc. The workshop aims to provide an ample opportunity to learn the fundamentals as well as recent advancements in the above-mentioned domains. The eminent resource persons from premium organizations such as NASA, ISRO and Institutions such as IITs, NITs, Calcutta University, San Diego State University, Polytechnique Montréal, Okan University etc. will be sharing their expertise to enrich the knowledge and skills of the participants.



About NIT Sikkim

National Institute of Technology Sikkim, an institute of national importance is one among the ten newly sanctioned NIT(s) by the Government of India in 2009. 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. Moreover, the institute offers M.Tech programs in Microelectronics & VLSI Design, Electrical and Electronics Engineering, and Computer Science Engineering. The Institute also offers M Sc. program in Chemistry and Ph. D programs in all departments.

Presently, NIT Sikkim is located in a temporary campus at Ravangla, in South Sikkim which is a tourist town and it is connected by highway to other major towns in the state and lies between Pelling and Gangtok. Ravangla is situated at an elevation of 2100m surrounded by Himalayan terrain and famous for tourist spots such as Buddha Park, Temi tea garden, and Ralong Monestry.

About the Dept. of ECE

The Dept. of ECE was established in 2010 with the laying of the foundation of National Institute of Technology Sikkim. The Department aims to provide an outstanding research environment complemented by excellence in teaching to produce engineering professionals leading a successful career in industry, academics, and entrepreneurial endeavors. The Department offers research in the areas of ASIC & Modeling and Optimization of High-Performance Semiconductor Devices, Microwave Engineering & Antenna Design, Wireless Communication, Speech Processing, Satellite Communication and Navigation. The Dept. has good laboratory facility with modern equipment to encourage the students to cope up with the latest technologies. The Department offers B. Tech in ECE with an intake of 30 students/ year, M. Tech with an intake of 22 students/year and Ph. D in Engineering.

Resource Persons

- **Prof. Pradip Kumar Jain**
Director, NIT Patna
- **Prof. Satish Kumar**
Director, NIT Kurukshetra
- **Prof. Shyam Sundar Pattnaik**
Director, NITTR Chandigarh
- **Prof. Debatosh Guha**
Institute of Radio Physics and Electronics,
University of Calcutta
- **Dr. Goutam Chattopadhyay**
NASA-Jet Propulsion Laboratory
California Institute of Technology
- **Prof. Satish Kumar Sharma**
Antenna and Microwave Laboratory, San Diego
State University
- **Prof. Levent Sevgi**
Okan University, Istanbul, Turkey
- **Shri. Rajeev Jyoti**
Space Applications Centre, ISRO
- **Prof. Mohammad S. Sharawi**
Department de genie electrique, Polytechnique
Montreal, Canada
- **Prof. M. M. Sharma**
MNIT Jaipur
- **Prof. Rowdra Ghatak**
NIT Durgapur

Other Eminent Speakers form IITs, NITs and other Institute of repute will also be joining to share their knowledge as per the theme of the workshop.

Organizing Committee

Chief Patron

Prof. Mahesh Chandra Govil
Director, NIT Sikkim

Patron

Dr. Ranjan Basak
Dean Academic, NIT Sikkim

Convener

Dr. Sanjay Kr. Jana
HOD, ECE, NIT Sikkim

Coordinator

Dr. Surajit Kundu
Asst. Prof., Dept. of ECE

Advisory Committee

Dr. Achintesh Narayan Biswas, Registrar
Dr. Sangram Ray, Dean Students Welfare
Dr. Anindya Biswas, Asso. Dean, Academics

Program Committee

Dr. Hemant Kr. Kathania, Asst. Prof, Dept. of ECE
Ms. Reshmi Dhara, Asst. Prof., Dept. of ECE
Dr. Sukanta Dhar, Asst. Prof., Dept. of ECE
Dr. Ayan Chatterjee, Asst. Prof., Dept. of ECE
Dr. Avinash Kumar, Asst. Prof., Dept. of ECE
Dr. Jeetendra Singh, Asst. Prof., Dept. of ECE
Dr. Sudipta Das, Asst. Prof., Dept. of ECE
Dr. Rahul Pal, Asst. Prof., Dept. of ECE

Student Volunteers

Mr. Girija Nandan Kar, B. Tech Final Year
Mr. Durgesh Kumar Gupta, B. Tech Final Year
Mr. Deepak Choudhary, B. Tech Final Year
Ms. Anjali Roy, B. Tech Pre-Final Year
Ms. Khushbu Gupta, B. Tech Pre-Final Year
Mr. Gourav Kumar Prasad, B. Tech Pre-Final Year

Registration

- No registration fees to attend the workshop, however registration is compulsory for participation.
- Seats are limited and it will be filled up on first come first serve basis.
- Last date of registration is **04.03.2021**
- Click the below link for registration:

[Click Here](#)

Mode

The workshop will be organized through online platform. The joining link will be shared with the participants, well in advance.

Certificate

E-certificate will be provided to the participants after conforming the attendance criteria.

Contact Persons

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Dr. Ayan Chatterjee (voice: 8620926313, email: ayanchatterjee@nitsikkim.ac.in)

