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

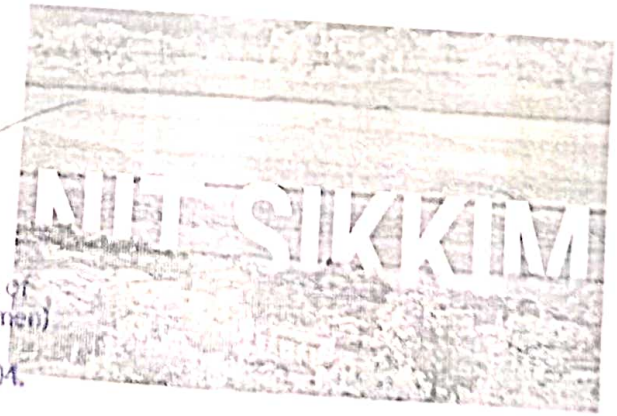
Under the Aegis of

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 renter. 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 national importance is one among the ten new sanctioned NIT(s) by the Government of India in 20 The institute is offering B. Tech programs in Compu Science and Engineering, Electronics a Communication Engineering, Electrical a Electronics Engineering, Mechanical Engineering, a Civil Engineering. Moreover, the institute offe M.Tech programs in Microelectronics & VLSI Desig Electrical and Electronics Engineering, and Compute Science Engineering. The Institute also offers M Sc program in Chemistry and Ph. D programs in al 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 th laying of the foundation of National Institute o Technology Sikkim. The Department aims to provide a outstanding research environment complemented b excellence in teaching to produce engineering professionals leading a successful career in industry academies, and entrepreneurial endeavors. Th 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 th 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

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2020-21

REPORT

FDP on Modern Antennas for Present and Futuristic Wireless Communication Technology

Date of program: 08-03-2021 to 13-03-2021

Resource person: Prof. Satish Kumar, Director, NIT Kurukshetra.

About the Program: I V.Anitha attended FDP on Modern Antennas for Present and Futuristic Wireless Communication Technology. I gained knowledge 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.

Signature of the Faculty member

V.Anitha, Assistant professor, ETE

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