

## PATRONS

Prof. Shyam Lal Soni, Director, NITUK

Prof. Shailendra Jain, Director, SLIET Longowal

## CHAIRPERSON

Dr. Dharmendra Tripathi, Dean R&C, NITUK

Prof. A. Marwaha, HoD, ECE, SLIET Longowal

## CONVENERS

Dr. Sarika Pal, NIT Uttarakhand

Dr. Tajinder Singh Arora, NIT Uttarakhand

Dr. Dilip Kumar, SLIET Longowal

## COORDINATORS

Dr. Siva Kr .Tadepalli, NIT Uttarakhand

Ms. Sarita Yadav , NIT Uttarakhand

Er. Sarabjit Singh, SLIET Longowal

## TENTATIVE LIST OF SPEAKERS

Prof. J. P. Saini, NSUT, New Delhi

Dr. Mukesh Kumar, IIT Indore

Dr. Y. K. Prajapati, MNNIT Allahabad

Dr. Anand Sharma, MNNIT Allahabad

Dr. Jitendra Banadur Maurya , NIT Patna

Dr. Gaurav Varshney, NIT Patna

## CONTACT PERSON

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## ABOUT NIT UTTARAKHAND

National Institute of Technology Uttarakhand is located in the hilly terrain of Srinagar, Pauri Garhwal, Uttarakhand. NIT Uttarakhand was established in 2009 under the Act of Parliament of India by the Ministry of Human Resource Development and designated with the status of "Institute of National Importance". Currently, NIT Uttarakhand is functional from two campuses i.e. Parent campus at Srinagar, Pauri Garhwal and Satellite campus at MNIT Jaipur.

## DEPARTMENT OF ELECTRONICS ENGINEERING

Department of Electronics Engineering (EC) was established in the year 2010. The department offers Undergraduate (UG), Postgraduate (PG) and Ph.D. degree programs that provide students with the knowledge and tools they need to succeed in the Electronics and Communication Engineering. Research in the department focuses on various high-impact disciplines: Signal and Image Processing, Microwave antennas, Optical communication and VLSI design and technologies. Our faculty brings state-of-the-art research, development, and design experience into the classroom, ensuring that our students and alumni are able to apply for registration as professional engineers in all part of global engineering and the scientific community.

A

Short Term Course

on

## Recent Trends in Wireless Communication

(20<sup>th</sup> July – 24<sup>th</sup> July, 2020)



*Sponsored by*

**TEQIP-III, NIT Uttarakhand**

**SLIET Longowal, Punjab**



**Department of Electronics Engineering**

**NIT Uttarakhand, Srinagar Garhwal,**

**Uttarakhand - 246174**

## INTRODUCTION

This short term course is designed to provide an overview on Recent Trends in Wireless Communication. Eminent speakers from top notch Academia and Industries are invited for the same. The course shall be offered from 20<sup>th</sup>-24<sup>th</sup> July 2020, in the Department of Electronics Engineering, NIT Uttarakhand, Srinagar (Garhwal). It is sponsored by the TEQIP-III under Twinning Activities with SLIET Longowal, Punjab.

## COURSE OBJECTIVES

This Short Term Course aims to bring together the researchers who are interested in Wireless Communication and Optical sensor to share and discuss the latest research trends and innovative implementation in the design of smart network architectures, protocols algorithms, services and applications. This Short Term Course will focus on following research trends

- ❖ To understand modern wireless standards that are crucial for next generation communication,
- ❖ To understand optical wireless communication & sensing devices
- ❖ Exposer to optical communication & optoelectronic devices
- ❖ Hands on training on spectrum analyzers, OTDR, Optical communication and device simulators

## PROSPECTIVE PARTICIPANTS

This STC is open for participants from Industries, PSUs and Academic Institutions Faculties, Ph.D. Research Scholars and Undergraduate, Post-graduate students. The number of participants for the course are limited to seventy (70) on first come first serve basis.

## TOPICS TO BE COVERED

The major topics to be covered in short term course are:

- ❖ Free space optical communication.
- ❖ Fiber optic communication
- ❖ Channel modeling in free space optical communication
- ❖ Antenna for IOT applications
- ❖ Antenna for 5G applications
- ❖ Important aspects of dielectric resonator antenna
- ❖ Current research scenario in the field microwave antenna
- ❖ On chip optoelectronic devices for optical communication
- ❖ Silicon photonic devices for optical interconnects
- ❖ Dispersion minimization in fiber optic communication
- ❖ Plasmonic sensor

## REGISTRATION

The registration will be done online using following link. The link is also available at [www.nituk.ac.in](http://www.nituk.ac.in)

**Mode of STC:** Online

**Link for Registration:**

<https://forms.gle/BcAHqZfXAYmf6TTd7>

**Time :** 10:00 AM Onwards (Daily)

**Last date of Registration:** July 17, 2020

**E-certificates:** Issued to participants after successful completion of the course

## REGISTRATION FEE

**TEQIP-III Institutions- Free**  
**NON TEQIP-III Institutions- Rs. 500/-**

**For online-payment, the bank account details are as follows:-**

**A/C Name:-** National Institute of Technology  
Uttarakhand

**Bank Name:-** SBI, Srinagar-Garhwal

**Account No:-** 37843015175

**IFSC Code:-** SBIN0003181