

Online Short Term Training Programme

On

Recent trends in Optical Engineering (RTOE 2020)

(Sponsored by TEQIP III)

October 19- 23, 2020



Jointly Organized by

Electronics Engineering Department
S. V. National Institute of Technology, Surat
&



**Department of Electronics & Communication
Engineering,**

**Madan Mohan Malaviya University of
Technology, Gorakhpur (U.P)**

Theme of Short Term Training Programme

The objective of this one-week Short Term Training Programme (STTP) is to generate the platform for bringing out the challenges in the field of optical engineering. Applications of optics are found in almost every aspect of our life, ranging from daily life to highly innovative science.

This STTP aims at providing an insight on “Recent trends in Optical engineering”. Mainly motivate and aware the researchers and research oriented people about the recent advancement in this area. The course is intended to cover the traditional as well as advanced topics of photonics and its applications. During this program our focus is to develop awareness of optical engineering, Photonic Crystal fibers, optical waveguides/sensors and devices, along with the impact of photonics in communication backhaul and for better understanding of different phenomena and challenges of photonics technology. This program can serve as an excellent platform to get the concepts of both basics and recent developments in photonics technologies, as well as support in the teaching and research community associated with the departments of electronics, electrical engineering, and physics etc.

Areas to be covered:

- Optical fiber based Plasmonics Biosensors for Clinical Applications
- Modern trends and developments in semiconductor optoelectronics
- Optical technologies enabled by Nano photonics
- Photonic Devices
- Photonic Crystal based solar cell
- Fiber optic sensors and its applications
- Future of Integrated Circuits-Silicon Photonics
- Hi Fidelity Distributed Fiber Sensors
- Role of Photonic spin hall effect in sensing application
- Optical digital computation using some optical switching units

Organizing Committee

Patron

Prof. S. R. Gandhi
Hon'ble Director

Chairman

Dr. A. D. Darji
Associate Professor & Head, ECED

Coordinators

Dr. Piyush Patel
Associate Professor, SVNIT

Dr. Abhilash Mandloi
Assistant Professor, SVNIT

Dr. Dharmendra Kumar
Assistant Professor, ECED, MMMUT

Committee Members

Prof. A H Lalluwadia, SVNIT Surat
Prof Upena D Dalal, SVNIT Surat
Prof Naresh B Kanirkar, SVNIT Surat
Prof Prasant K Shah, SVNIT Surat
Dr Jignesh N Sarvaiya, SVNIT Surat
Dr Zuber N Patel, SVNIT Surat
Dr Rasika N Dhavse, SVNIT Surat
Dr Jigisa N Patel, SVNIT Surat
Dr Shilpi Gupta, SVNIT Surat
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Dr Sweta N Shah, SVNIT Surat
Dr Mahul C Patel, SVNIT Surat
Dr Deepak Joshi, SVNIT Surat
Dr Suman Deb, SVNIT Surat
Dr Abhishekh Acharya, SVNIT Surat
Dr Kamal Captain, SVNIT Surat
Dr Kirti Inamdar, SVNIT Surat
Dr. Pinalkumar J. Engineer
Mr. Ritesh Kumar, MMMUT
Dr. Satish Chandra, MMMUT

Resource persons:

- Dr. Santosh Kumar, Liaocheng University, China
- Dr. Ravi Hegde, IIT GN
- Dr Amitesh Kumar, IIT-ISM Dhanbad
- Dr Saurabh Kumar Pandey, IIT Patna
- Dr. Vijay Janyani, MNIT Jaipur
- Dr. Y. K. Prajapati, MNNIT Allahabad, Prayagraj
- Dr. Vijayshri Chourasia, MANIT Bhopal
- Dr. Ajay Kumar, NIT Jamshedpur
- Dr. Anamika Singh, VNIT Nagpur
- Mr. Hitesh Mehta, Senior Design Engineer Eagle Photonics Mumbai

The resource persons for the STTP shall be the faculty of the Institute itself, eminent speakers from other IIT's / IIIT's / NIT's along with persons from the Industries and academia.

Eligibility Criteria

Applications are invited from interested researchers (Ph.D/M.Tech) and faculty members from academia, R&D laboratories, industries and M.Sc students for the participation in this STTP in the prescribed registration form as indicated in this leaflet.

Registration Fee

For Faculty: Rs.600
For Research Scholar and PG Students: Rs. 300
For Industry Person: Rs. 5000

Mode of Payment: The non-refundable registration fee should be paid through net banking:

Name of Bank: Canara Bank

Account Name: Director SVNIT TEQIP IRG

Account No:0277101028663

IFSC Code: CNRB0000277

While paying through the net-banking, in remarks the purpose is to be written as "RTOE-2020 Registration Fee". (kindly save the receipt or take screenshot of the payment)

Important Dates:

Last date for online registration: October 16, 2020.

Duration of STTP : October 19- 23, 2020

ABOUT SVNIT

Surat is a top-ranking industrial city of the country with clean wide roads and over bridges. It is well known worldwide for textiles, zari, embroidery, and diamond industries. Several large-scale industries are located in the city. Surat is situated on the main western railway route between Vadodara and Mumbai and connected to all part of the country through rail network. The institute is located at Ichchhanath on Surat-Dumas road at a distance of about 10 Km from Surat railway station and airport.

ABOUT THE INSTITUTE

The Institute was initially established as Sardar Vallabhbhai Regional College of Engineering & Technology in 1961. It was later upgraded as a National Institute of Technology in 2002. It has been accorded the status of institute of national importance. SVNIT is one of the pioneering engineering institutions of the country which has nurtured many outstanding engineers in India & abroad. At present, the institute runs seven UG programs, eighteen PG programs and a Ph.D. program in all disciplines of engineering and applied sciences. The institute has an excellent placement record with a number of top-ranking companies visiting the campus every year.



ABOUT THE DEPARTMENT

Established in 1982, Electronics Engineering Department of SVNIT, Surat is progressing at a rapid pace with the development in terms of infrastructure facilities, upgraded syllabi and learned faculty. Department offers 3 programmes viz: B. Tech. (Electronics & communication), M. Tech. (Communication Systems) and M. Tech. (VLSI & Embedded Systems). Around 100 research scholars are enrolled in the department for doctoral work in the field of VLSI Design, Embedded Systems, Semiconductor Devices and Technology, Sensors, Wearable/ IoT based Devices, Digital Signal/ Image/ Video Processing, Optical Devices/ Communication/ Networking, Wireless Communication, RF and Microwave Antennas and Design, etc. Department is equipped with ultra-modern academic and research laboratories in all aforesaid fields. Many research projects funded by eminent agencies like DST, MeitY, DRDO, GUJCOST, ISRO, etc. are executed in the department.



Contact Person

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Google Form Link for Registration

<https://forms.gle/38u4H6YVeVW35f7D9>