

ABOUT THE INSTITUTE

Guru Nanak Dev Engineering College, Ludhiana is one of the oldest and premier Engineering Institutes of India. It is an autonomous college under UGC Act 1956 [2(f) and 12(B)]. The Institute is setup on 88 acres of sprawling pristine land on Ludhiana-Malerkotla state highway. Ludhiana city is a well known Industrial hub in Northern India and is well connected by direct rail service with all parts of India. The beautiful campus is about 7 kms away from railway station.

PROGRAMME OBJECTIVES

Innovations in optical fiber technology are revolutionizing the world communication by allowing direct transmission of high-speed signals over long distances. Optical fiber communication (OFC) has found numerous applications in Telecommunications, Local area networks, High precision material processing, Sensors, Medicine etc. It is one of the fastest growing technological markets because of relatively compact size of fiber, cost-effective, high efficiency and their stable operation.

The objective of the programme is to provide an opportunity to the participants to learn and appreciate the technology options and developments taken place during past decades in the field of OFC targeting the recent trends in telecommunication. Special emphasis will be on practical aspects of optical fiber performance and testing techniques.

COURSE CONTENTS

Following topics related to fundamentals and advances in OFC Technology will be covered:

- Needs for Optical Transmission;
- Fundamentals of Optical Wave Guiding;
- Transmission Characteristics/ Signal Degradation;
- Fabrication, Cabling and Joints;
- Optical Sources and Detectors;
- WDM/DWDM Technique & Components;
- Non Linear Effects in Optical fibers;
- PON and ROF
- Hands on session

FACULTY

Experts from NITTTR, NITs, BSN and other renowned academic institutions around the region besides faculty from our institute will deliver expert talks.

ELIGIBILITY CRITERIA

The program is interdisciplinary in nature and has been designed for Electronics, Electrical, I&C, Computer Science and Applied Physics faculty and practicing engineers.

IMPORTANT DATES

Last date for receiving Applications Form:
April 18, 2016

Notification of Acceptance: April 19, 2016

REGISTRATION

There is no registration fee for the participants from academic Institutions (AICTE approved). However, participants from industry shall have to pay registration fee of Rs. 5000/-plus ST @ 14.5% (Total Rs. 5725/-) as course fee.

CONTACT DETAILS

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ABOUT NITTTR

National Institute of Technical Teachers Training and Research (NITTTR) Chandigarh was established in 1967 by MHRD, GOI for promoting excellence in Technical Education through Innovations. The institute is committed to provide high quality and customized education, training, research and development and extension services to technical and vocational education, industry and community.

Short Term Course on

ADVANCES IN OFC TECHNOLOGY

April 25 - 29, 2016

**In Association with
NITTTR, Chandigarh**



Chief Patron

Dr. M.S. SAINI

Patron

Dr. SANDEEP SINGH GILL

Coordinators

**Dr. B.C. CHOUDHARY
Dr. BALJEET KAUR**

Organized by



**Department of Electronics and
Communication Engineering**

**GURU NANAK DEV
ENGINEERING COLLEGE
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SECTOR 26, CHANDIGARH – 160 019
Ph.0172-2791500, Fax: 0172-2791366**

**Short Term Course on
Advances in OFC Technology**

25th April –29th April, 2016

APPLICATION FORM

1. Name (in BLOCK letters): _____

2. Educational Qualification: _____

3. Designation, Department and Institute: _____

4. Address for Correspondence (Official): _____

Phone: _____ Fax: _____

E- Mail (if any): _____

5. Whether the Institute is: ☐ Govt ☐ Govt Aided

(Please tick appropriate box) ☐ Private ☐ Self-financing

6. Experience (if any): _____
in Production/Development/ Training/HRD/R&D

7. Course fee, if applicable: Amount: _____ DD No. _____

Signature of the Applicant

Recommended/Forwarded by

Date: _____

Place: _____

Signature of Head of
the Institution (with office seal)