

# AICTE Sponsored QIP Short Term Course on **Fiber Optics and Optoelectronics Technology**

*Organized by*

**Department of Electronics and  
Communication Engineering Indian  
Institute of Information Technology,  
Design and Manufacturing  
Kancheepuram, Chennai - 600 127**

*[www.ece.iiitdm.ac.in](http://www.ece.iiitdm.ac.in)*

**Between**

**3<sup>rd</sup> – 8<sup>th</sup> February 2022**

**Coordinator**

**Dr. Srijith K**



## **ABOUT THE INSTITUTE**

IIITDM Kancheepuram is a Centre of Excellence for technical education and research established in 2007 by the Ministry of Education, Government of India to pursue design and manufacturing oriented engineering education with research leading to promote the competitive advantage of Indian products in global markets.

## **ABOUT THE DEPARTMENT**

The Department of Electronics and Communication Engineering at IIITDM Kancheepuram offers B.Tech programme in Electronics and Communication Engineering, M.Tech programmes in Communication Systems, Microelectronics and VLSI Systems and Ph.D. programmes in core and allied areas of Electronics and Communication Engineering in addition to Electrical Engineering. The Department consists of a vibrant team of faculty members working in diverse areas including VLSI, Power Systems, Signal Processing, Communication, RF and Photonics. The faculty members are involved in sponsored and consultancy research projects from reputed industries and government organizations.

## **IMPORTANT DATES**

Last date for applications : 31-01-2022

Intimation of selection : 01-02-2022

Confirmation of participation : 02-02-2022

**For further details, please contact:**

**Dr. Srijith K**

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## AICTE Sponsored QIP Short Term Course on

### Fiber Optics and Optoelectronics

#### Technology

3<sup>rd</sup> – 8<sup>th</sup> February 2022

#### APPLICATION FORM

Please fill the Google form using the link below,



[Click the form icon or scan QR code](#)

**Eligible teachers are requested to submit the filled in application (Google form) along with the sponsorship certificate in the format given below on or before 31-01-2022.**

#### ABOUT THE COURSE:

##### INTRODUCTION

Fiber optics and optoelectronics have revolutionized not only the modern communication systems but also has made its presence in diverse realms like healthcare, automotive industry, defense and space sectors. Apart from the ubiquitous use of fiber optics in transferring data or information, there is also a less explored realm of sensing technologies based on optical fibers. The course intends to provide a fundamental understanding of the basic principles of optical fibers and optoelectronics devices and motivate the participants to appreciate the use of fiber optics and optoelectronics in applications like communication and sensing.

##### COURSE OBJECTIVES

The objectives of the short-term course are focused on the fundamentals of fiber optics and optoelectronics along with providing

glimpses of various technological advancements in the areas of communication and sensing.

##### COURSE OVERVIEW

- Fundamentals of Optical Fibers
- Wave propagation in dielectric and optical waveguides
- Recent trends in chalcogenide glass fibers
- Nonlinearities in optical waveguides
- Few-mode and multimode fibers in communication
- Coherent Optical Communication
- Optoelectronic Devices
- Photovoltaic Devices
- Principles of fiber optic sensors
- Surface plasmon resonance- based sensors
- Tunable diode laser spectroscopy
- Fiber optics in the industry
- Hands-on-sessions on fiber optic simulation tools

##### COURSE DURATION

The course is of one week duration from 3<sup>rd</sup> to 8<sup>th</sup> February 2022.

##### RESOURCE FACULTY

The resource faculty includes experts from both academia and industry.

##### ELIGIBILITY

Engineering college teachers from AICTE approved colleges are eligible to apply for the course.

##### REGISTRATION FEE

There is no course fee for the participants.

##### MODE

The course will be online, and the attendance during all the sessions is compulsory. The course link will be sent to shortlisted candidates (maximum of 100) by 2<sup>nd</sup> February 2022.

## **SPONSORSHIP CERTIFICATE FORMAT**

Certified that Dr./Sri./Smt. .... is a faculty of our Institute and is being sponsored hereby for attending the QIP short term course on “Fiber Optics and Optoelectronics Technology” to be conducted by Department of Electronics and Communication Engineering, IIITDM Kancheepuram in online mode from 3<sup>rd</sup> to 8<sup>th</sup> February, 2022.

**Signature of Sponsoring Authority**

(With date and seal)