

## Topics Covered

- **Day 1:**  
Aspects of Optical and Wireless Systems
- **Day 2:**  
Technological Trends in Optical-Wireless Systems and devices.
- **Day 3:**  
Wireless Optical Systems (Rof, FSO, VLC.)
- **Day 4:**  
Modelling and simulation of Optical Systems using simulation software. Hands-on sessions and debugging
- **Day 5:**  
Simulation and evaluation of wireless optical systems
- **Day 6:**  
R & D trends in optical- wireless systems and example projects, Valedictory function

## Objectives

Objectives of the course are to enable participants to:

- To understand Wireless Optical Systems
- Simulation of Optical Communication Systems.
- Hands-on sessions on Optical Simulation Software.
- Building and testing own wireless-Optical communication Systems
- R & D trends in the above technologies and example projects
- Helps faculties enhance their skills & with ideas to pursue higher education & research activities in the institute.

## About the Program

This faculty development training programme is in the domain of wireless and optical communication systems and their integration for the future broad band applications.

This program will cover aspects of Optical systems, wireless communication, integration of wireless and optical communication systems, Recent technological trends in these areas, Rof, VLC, Lifi etc.

The programme also includes hands-on training sessions in optical simulation software. Participants can explore domains like advanced modulation techniques, optical communication system, RoF, VLC and performance evaluation through eye diagram, BER curves etc.

The programme aims to train users the latest Technologies and trends in Optical-Wireless Systems and discover how optical simulation software enables users to perform simulation tasks such as modelling, performance analysis and perform R & D.

At the end of the programme, participants will be given certification for records & Ideas to pursue R&D.

## About Speakers

Eminent faculties from reputed institutions of the state.



**College of Engineering Trivandrum**

Faculty Development Programme on

**Recent Advancements in Optical  
Wireless Technologies**

Jan 14 – 19, 2019



Sponsored by:

**Director of Technical Education**

Organized by

**Dept of Electronics & Comm Engg  
College of Engineering Trivandrum**

### About College of Engineering Trivandrum

College of Engineering Trivandrum (CET), is one of the most sought after Engineering Colleges for engineering courses. Commanding an expanse of lush greenery of 82 acres, the CET campus is at Kulathoor, within the city limits of Thiruvananthapuram. CET is affiliated to APJ Abdul Kalam Technological University and the courses are approved by AICTE. The programmes are accredited by National Board of Accreditation (NBA) and most of the Departments are approved research centres. More than 4000 students are enrolled for various undergraduate, post graduate and part time courses in CET. Innovations are encouraged by providing facilities to set up incubation units. The research park within the CET campus, is another breakthrough in opening up avenues for inventions in engineering science.

With the decision to set up training facilities by Directorate of Technical Education, CET also has the role of a training centre for faculty and others engaged in providing supporting facilities in technical institutions.

The Department of Electronics and Communication Engineering started in the year 1965. Currently it offers B.Tech Degree programmes in Electronics and Communication Engineering and Applied Electronics and Instrumentation Engineering, and M.Tech degree programmes in Microwave and Television Engineering, Applied Electronics and Instrumentation, Signal Processing, Micro and Nano Electronics, and Robotics and Automation.

### Registration

The number of participants is limited to 30 and registration is based on first come first served basis.

Please visit the following link and apply online.

<http://admissions.dtekerala.gov.in/tpms/homeOA>

DTE Candidates should create their profile first using PEN number for the registration, while external candidates can apply online directly. A scanned copy of The application form completed in all respects and approved by the sponsoring authority/ institution/ organisation is to be uploaded in the above website

### Important Dates

Registration & Notification through email:  
Last date for the Registration : **10<sup>th</sup> Jan 2019**  
Notification of selection : **12<sup>th</sup> Jan 2019**

### Who Can Participate

Faculty Members of Engineering Colleges.

### Coordinators

Dr. Pradeep R (9447426466),  
Prof Joaquim Ignatious Monterio (9447818985)  
Dept of ECE, College of Engineering  
Trivandrum– 695016.

**e-Mail the registration form to:**

[pradeep@cet.ac.in/](mailto:pradeep@cet.ac.in)

[joaquim@cet.ac.in](mailto:joaquim@cet.ac.in)

### Faculty Development Programme on Recent Advancements in Optical Wireless Technologies

#### REGISTRATION FORM

Name:

Designation:

Qualification:

Department:

Organization:

Mailing Address:

Mobile:

Email:

Area of work at present:

Signature of the applicant:

#### Sponsorship Certificate

Ms./Mr./Dr..... is hereby sponsored to attend the Faculty Development Programme on Recent Advancements in Optical Wireless Technologies conducted by College of Engineering, Trivandrum, during the period 14<sup>th</sup> to 19<sup>th</sup> January 2019.

Date

Office seal

Signature