

Two-days Workshop
On
Advances in Photonic Devices, Sensors, and Systems
Date: June 2-3, 2022

Organized by



Department of Applied Sciences
National Institute of Technology Delhi
Narela, Delhi-110040, India



**Department of Electronics and
Communication Engineering**
**Motilal Nehru National Institute of
Technology Allahabad**
Prayagraj -211004, Uttar Pradesh, India

Under



Scientific Social Responsibility (SSR) Scheme – SERB (India)

Patrons

Prof. Ajay Kumar Sharma, *Director, NIT Delhi*
Prof. R. S. Verma, *Director, MNNIT Allahabad, Prayagraj*

Coordinators

Dr. Anuj K. Sharma, *Applied Sciences Department, NIT Delhi*
Dr. Y. K. Prajapati, *ECE Department, MNNIT Allahabad, Prayagraj*

Organizing Committee

Dr. Prashant Kumar, *HoD Applied Sciences, NIT Delhi*
Dr. Amit Mahajan, *Applied Sciences Department, NIT Delhi*

Introduction and Objective:

Invention of lasers in 1960 was a huge milestone in the area of photonics and photonic devices/systems as it led to a considerable development in the related areas of research such as fiber optics, optical communication, sensors, opto-electronics, and biomedical optics. Further advancements in fiber optics, semiconductor physics, material science, plasmonics, two-dimensional materials, and metamaterials etc. have significantly contributed to research and development on photonic sensors, devices, and systems.

This one-week faculty development programme (FDP) intends to organize talks from eminent experts from multi-disciplinary research areas working in different organizations worldwide. The participants will be exposed to a large variety of advancements that have taken place in the area of photonic devices, sensors, and systems.

Topics:

The course intends to cover all or most of the following (but not limited to) research topics on photonic sensors, devices and systems:

- Physics of Photonics
- Role and contribution of lasers in photonic devices and systems
- Optical Fiber Sensors
- Fiber Bragg gratings (FBG) and long period gratings (LPG)
- Fiber optic communication systems
- 2D nanomaterials in optical sensors and photodetectors
- Biophotonics
- Plasmonics and PSHE
- Online hands-on training session (e.g., Lasers, biosensors)

Speakers: Eminent researchers/academicians from reputed national/international institutes/universities/industry.

Eligibility Criteria to attend the Workshop: The workshop is open to faculty members/research staff from engineering and science colleges with relevant background and interest in photonic devices, sensors, and systems.

Registration Fees: There is no registration fee. Participation is limited to maximum thirty (25) persons who may be selected on 'first come first serve' basis.

How to Apply: The interested participants should apply on the prescribed format, which should reach to the workshop coordinators by **February 28, 2022**. The selection of participants will be confirmed through email/phone.

Registration Form

**Workshop on
“Advances in Photonic Devices, Sensors, and Systems”
APDSS-2022
June 2-3, 2022
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Applicant's Details

Name: _____

Designation: _____

Department: _____

Institute: _____

Highest Degree with specialization/ Branch: _____

Address for Correspondence: _____

Phone: _____ Mobile: _____ Email: _____

Signature of Applicant with Date: _____

Declaration

I,, agree to abide by the rules and regulations governing the workshop (APDSS-2022), and the information provided herewith is true to the best of my knowledge.

Place:

Date:

Signature

(**Note:** The scanned copy of completed registration form can be sent by e-mail to the workshop e-mail id: APDSS.NITD@gmail.com with a copy to the coordinators on or before February 28, 2022)