

## About the Institute:

Established in the year 2001, JIIT Noida is a “Deemed to be University” under Section 3 of UGC Act 1956. The institute is NAAC (MHRD) accredited and NIRF (MHRD) ranked for excellence in teaching and research. State-of-the-art environmentally conditioned campus comprises smart buildings with Wi-Fi connectivity covering the Academic Blocks, Business School cum Research Blocks, Faculty Residences, Student Hostels, and Annapurna, which provides a pleasant and stimulating ambience. The institute has well-equipped modern laboratories and an intellectually stocked Learning Resource Centre and E-Resources in the form of journals and other learning materials.

## About the Department:

The Department of Physics and Materials Science and Engineering (PMSE) offers several basic and advanced courses on physics and materials science to B.Tech students of ECE, CSE, IT and Biotech branches. The Department also offers courses to PhD students and the students of two year M. Sc. program in Physics. The goal of Physics as perceived by the Department is to understand the working of everything in the physical world from the first principles. The Department combines physics and materials science to solve real-world problems associated with energy, nanotechnology, quantum devices, optics and other major engineering disciplines. The Department has research laboratories with state-of-the-art equipment.

The Department also has PhD program in research areas of Nanoscience and Multifunctional Nanomaterials, Energy and Advanced Functional Materials, Atomic and Molecular Physics, Photonics and Plasmonics, Quantum Optics and Quantum Information, Optical Sensors, Vibrational Spectroscopy, Raman Spectroscopy, Solid State Ionics, Diluted Magnetic Semiconductors (Spintronics), Thermoelectric and Superconducting Materials and Laser Plasma Interactions. In addition, faculty members of the Department mentor post-doctoral fellows. Presence of post-doctoral fellows and a good number of externally funded projects enhance the academic ambience of the Department.

## Program Chair:

**Prof. Anirban Pathak** HoD, PMSE

## Conveners:

**Prof. Navneet K. Sharma** Professor, PMSE  
**Dr. Anuraj Panwar** Assistant Professor, PMSE

## Registration fee:

There is no registration fee.

## How to register:

Participants have to fill the below mentioned google form:

<https://forms.gle/geDr3g2UGp9Q4xdG7>

## Last date of Registration: 30<sup>th</sup> June 2022

## Who can participate?

1. The program is open to all the faculty members/scientists/engineers working in educational institutes/ industries/ R&D organizations.
2. Single registration to attend all lectures.
3. E-certificate will be issued to the participants on successful participation (>80% attendance).
4. Google meet link and other instructions will be shared via e-mail to all registered participants.

## Objective and scope of FDP:

This FDP aims to cover the various possible research and applications based on optics and plasma physics through a series of invited lectures from eminent speakers.

## Following key areas will be covered:

- Nanophononics
- Metamaterials
- Fiber Optics
- Quantum Optics
- Optical Quantum Computing and Communication
- Plasmonics
- Terahertz Radiation Generation
- High Power Laser Applications
- Plasma Physics and Applications

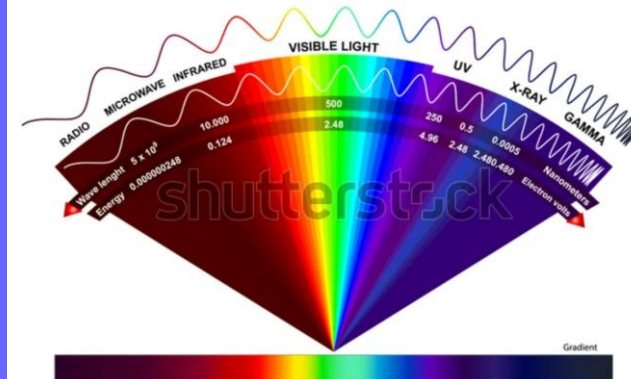
## MODE OF CONDUCTION: Online



विद्या तत्त्व ज्योतिसमः

JAYPEE INSTITUTE OF INFORMATION TECHNOLOGY  
(Deemed to be University under section 3 of UGC act 1956)  
A-10, Sector-62, Noida-201309, Uttar Pradesh

## One week Faculty Development Program on RECENT TRENDS IN OPTICS AND PLASMA PHYSICS



21<sup>th</sup> - 27<sup>th</sup> July 2022

Organized by  
Department of Physics and Materials Science  
and Engineering, JIIT Noida

## Address for Communication

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