

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 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.

Ramanujan Universe: HPC



- ❑ 110 Teraflops Speed
- ❑ 8* A100 Nvidia GPU Cards Accelerator Node
- ❑ Total 576 cores comprising of 384 cores of compute nodes

<https://ramanujanuniverse.com/>

Overview of the FDP:

The FDP will focus on the recent developments in computational aspects of statistical physics, plasma physics, particle physics, photonics, quantum computation and biophysics. Important applications of high performance computing will also be discussed.

Resource persons:

A set of eminent speakers from academia and industry will deliver talks on the latest research areas and related advanced topics, with a visit to Ramanujan Universe (HPC facility) .



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
“Computational techniques
using HPC in Physical
Sciences”**

16th – 22nd July 2024

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

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 has vibrant Ph.D and 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 focuses on research in 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.

Registration fee:

Participants from Academia/Industry:

Rs 2500/- per person

Participants from IIIT: NIL

The fee includes tea and snacks during the program. Please note that no TA/DA or accommodation will be provided to the participants.

How to register:

Participants have to fill the below mentioned google form:

<https://forms.gle/3tViroXfj2e5Zoi79>

Payment link:

Fee can be paid via scanning the QR code or using the link

<https://payments.cashfree.com/forms/FDPPMSE>



Last date of Registration: 8th July 2024

Chief Patron:

Hon'ble Shri Manoj Gaur
(Chancellor, IIIT)

Patrons:

Prof. S.C. Saxena
(Pro Chancellor, IIIT)
Prof. B.R. Mehta
(Vice Chancellor, IIIT)

Program Chair:

Prof. Anirban Pathak
(HoD, PMSE)

FDP Coordinators:

Dr. Vikas Malik (Convenor)
Dr. Urbashi Satpathi (Co-Convenor)
Dr. Indrani Chakraborty (Secretary)

Address for Communication:

Department of Physics and Materials Science and Engineering, Jaypee Institute of Information Technology, Noida, A-10, Sector -62, Noida-201309, U. P.

Dr. Vikas Malik
(vikas.malik@mail.jiit.ac.in, 9910065842)

Dr. Urbashi Satpathi
(urbashi.satpathi@mail.jiit.ac.in, 7022008489)

Dr. Indrani Chakraborty
(indrani.chakraborty@mail.jiit.ac.in, 9874671703)