

About IIIT:

Established in the year 2001, IIIT 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 Block, 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.

The Physics and Materials Science & Engineering (PMSE) department offers Physics and Materials Science courses to B. Tech. / M. Tech./M.Sc. and Ph. D. students. The department is actively involved in research areas of Nanomaterials, Solid State Ionics, Energy Materials, Spintronics, Advanced Functional Materials, Atomic & Molecular Physics, Plasma Physics, Quantum Optics and Quantum Information, Optical Fiber and Photonics.

Objective and scope of Workshop:

WLDD-2025 will focus on groundbreaking advancements in the science and applications of low-dimensional (*i.e.*, 0-D, 1-D, 2-D) materials, including nanoparticles, quantum dots, quantum wires, nanotubes, quantum wells, and thin films etc. The workshop will span topics from synthesis and characterization of such materials to their integration into next-generation technologies and applications. This platform aims to bring together scientists, researchers, academicians, and industry experts to discuss the latest developments and foster collaborations in the field of low-dimensional materials.

Patrons:

Prof. S. C. Saxena
Prof. B. R. Mehta

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Vice-Chancellor, IIIT

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- Prof. Rajeev Prakash, IIT Bhilai
- Prof. Anurag Srivastava, IIIT Gwalior
- Dr. S. D. Kaushik, UGC-DAE CSR Mumbai

Organising Committee:

Convenor: Prof. Navendu Goswami

Co-Convenor(s): Dr. B. C. Joshi, Dr. Anuraj Panwar

Secretary(s): Dr. Ashish Bhatnagar, Dr. Ravi Gupta

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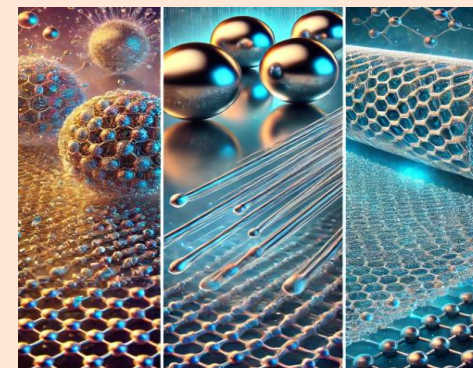


JAYPEE INSTITUTE OF INFORMATION TECHNOLOGY
(Deemed to be University under section 3 of UGC act 1956)
A-10, Sector-62, Noida-201309, Uttar Pradesh

Workshop on Low-dimensional Materials (WLDD-2025) 14-15 February 2025

Organized by
Physics and Materials Science and Engineering
Department, IIIT Noida

Sponsored under Scientific Social Responsibility
(SSR) Scheme, ANRF, DST Govt. of India
Co-sponsor: VNS Scientific



Last date of Registration: 05 February, 2025

Who can participate: Faculty, Researchers, Scientists, Ph.D./PG students, Industry persons & Engineers.

Contact: E-mail: wldmjiit@gmail.com
Prof. Navendu Goswami: 79820 33648
Dr. B. C. Joshi: 7428852205, Dr. Ravi Gupta: 9811213247

Speakers



Dr. D. K. Avasthi
University of Petroleum and
Energy Studies, Dehradun
*Title of Talk: Low-dimensional
Materials for Energy.*



Dr. H. K. Singh
National Physical Laboratory,
New Delhi
*Title of Talk: Low-dimensional
Systems in Quantum Metrology.*



Dr. Kedar Singh
Jawaharlal Nehru University,
New Delhi
*Title of Talk: Recent Development on
Low Dimensional Materials: Synthesis
for Device Applications.*



Dr. Govind Gupta
National Physical Laboratory,
New Delhi
*Title of Talk: Design and Fabrication
of Optoelectronic Devices Based on
Semiconductor Nanostructures and
Heterostructures.*



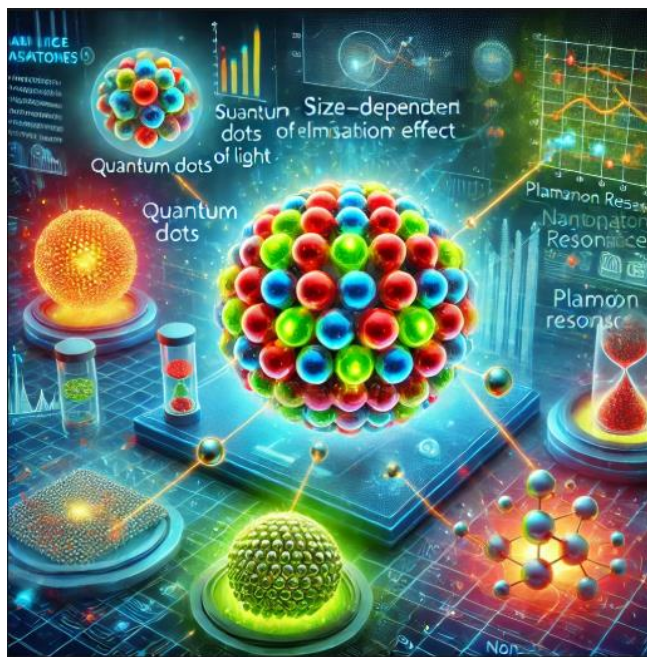
Dr. R. S. Dhaka
Indian Institute of Technology Delhi
*Title of Talk: Structural and magnetic
properties of Heusler alloys (bulk and
nano).*



Dr. Ankur Goswami
Indian Institute of Technology Delhi
*Title of Talk: Multifaceted Modes of
Scanning Probe Microscopy to
Characterize Low Dimensional
Materials.*

Following key areas (not limited) will be covered:

- Synthesis and Fabrication of Low-Dimensional Materials (0-D, 1-D, and 2-D Structures)
- **Nanoparticles and Quantum Dots: Properties and Applications**
- Quantum Wires and Nanotubes: Advanced Research and Developments
- **Quantum Wells and Thin Films for Device Integration**
- Characterization Techniques for Low-Dimensional Materials
- **Optoelectronic Applications of Low-Dimensional Materials**
- Low-Dimensional Materials in Energy Conversion and Storage
- **Emerging Applications in Catalysis and Sensor Technologies**
- Theoretical and Computational Aspects of Low-Dimensional Systems



Important Dates:

Registration open: 20 January, 2025

Registration closed: 05 February, 2025

Registration Fee

Academicians/ Scientists	INR 500
Research Students	INR 200

Accommodation:

Hostel accommodation will be provided, on request (if available) @INR 300 per day.

Payment of Fee:

Pay using the following link:

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



How to Register:

Pay the registration fee with above link & fill the registration form using the following link:

https://docs.google.com/forms/d/e/1FAIpQLSc9D4csOkrsiL_wT73mk7IJFtjAryUYBPw6Z4IQuFo62xmA-A/viewform?usp=sharing