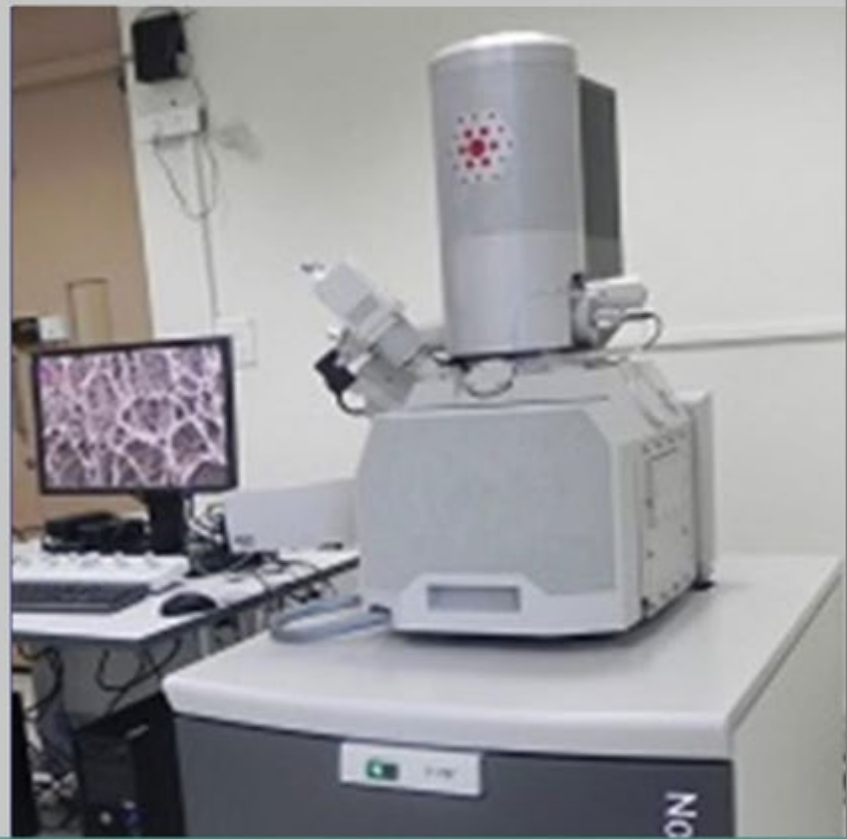




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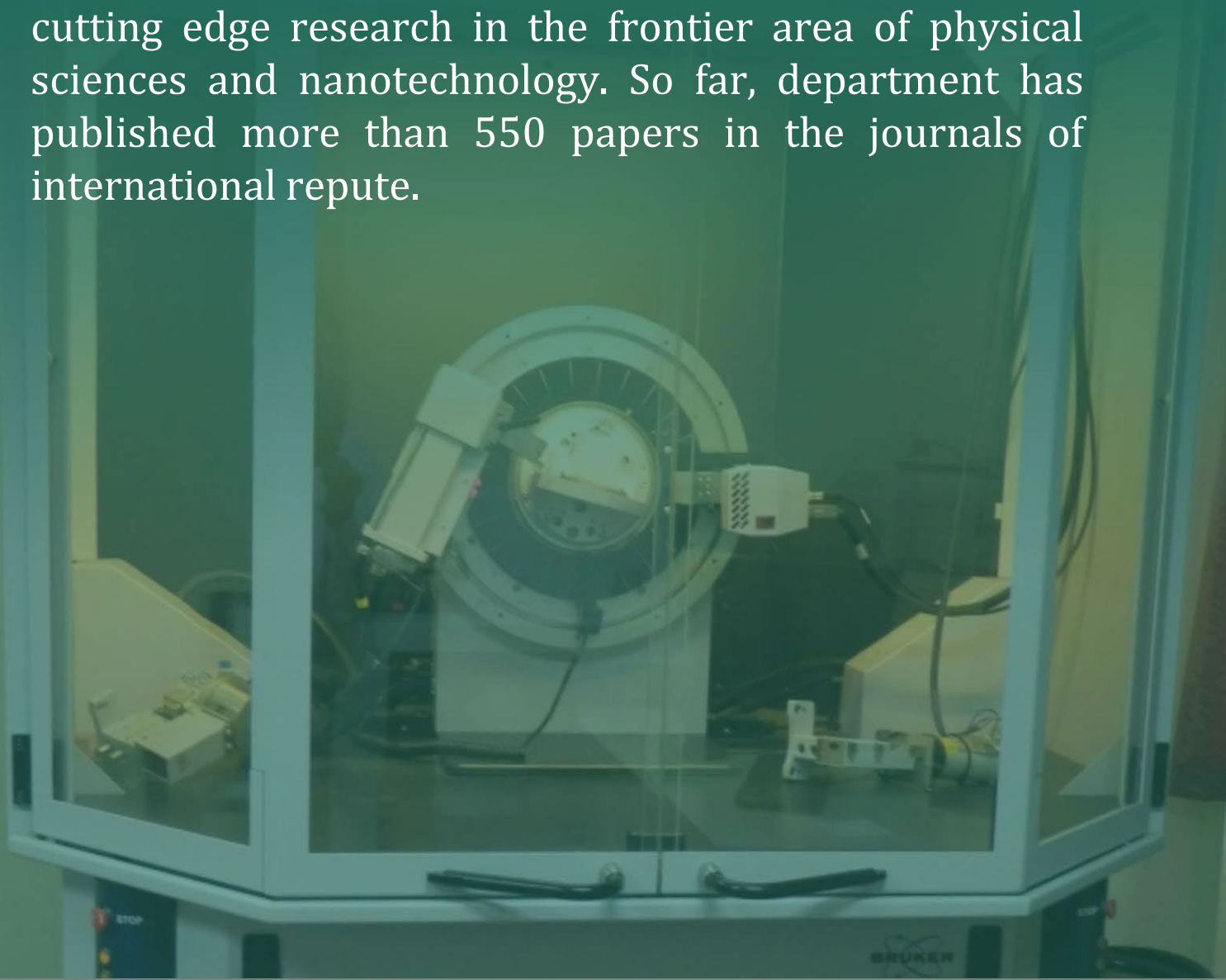


DEPARTMENT OF PHYSICS AND MATERIALS SCIENCE AND ENGINEERING



About the Department

Department of Physics and Materials Science and Engineering (PMSE) has not only played a key role in supporting the undergraduate and post graduate education for all disciplines in IIIT but also attracted worldwide attention by carrying out exceptional research in the fields of Advanced Materials, Nano-Materials, Optics, Plasma Physics, and Quantum Information Theory. The Department of PMSE has been running M.Sc. (Physics) and Ph.D. Programme with 36 expert faculty members who are actively engaged in cutting edge research in the frontier area of physical sciences and nanotechnology. So far, department has published more than 550 papers in the journals of international repute.

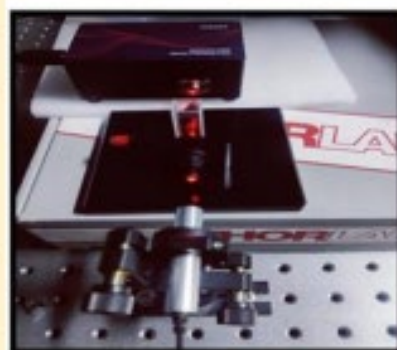


POST-GRADUATE PROGRAMMES OFFERED

- Doctor of Philosophy (Ph.D.)
- Master in Science (M.Sc. Physics)

LABS/FACILITIES

- X-ray diffraction Facility
- Raman Spectroscopy
- UV-Visible spectrometer
- FTIR spectrometer
- Photoluminescence
- Vacuum Coating Unit
- CVD
- PE loop tracer
- Ball Milling
- Furnaces



FACULTY LIST / Research Areas

Professors

- Prof. Anirban Pathak: Quantum Optics, Quantum Computing.
- Prof. Shiv Prasad Purohit: Atomic And Molecular Collision Physics, Nanoscience.
- Prof. R. K. Dwivedi: Smart Materials, Multiferroics.
- Prof. Navneet Kumar Sharma: Fiber Optic Sensors, Surface Plasmon Resonance.
- Prof. Papia Chowdhury: Optical Sensors, Organic Light Emitter (OLED).
- Prof. Navendu Goswami: Nanoscale Science & Technology, Materials Science.
- Prof. Suneet Kumar Awasthi: Photonic Crystals, Metamaterials.
- Prof. Vikas Malik: Monte Carlo Simulations In Disordered Solids, Theoretical Condensed Matter.
- Prof. Manoj Kumar: Dye Sensitized Solar Cell, Magnetic Oxides.
- Prof. Sandeep Chhoker: Hybrid/Conjugate Nano Structures And Charge Transport.

Associate Professors

- Dr. Anshu D Varshney: High-speed Optical Communications, Nonlinear Photonics.
- Dr. B. C. Joshi: Compound Semiconductors Devices, Leds.
- Dr. Amit Verma: Quantum Optics, Quantum Computing.
- Dr. Prashant Kumar Chauhan: EM Wave Interaction With Surface Plasma, Fast Ignition.
- Dr. Anuraj Panwar: Metamaterials, Plasma Physics
- Dr. Dinesh Tripathi: Super Conductors And Cryogenics

Assistant Professors

- Dr. Guruprasad Kadam: High Energy And Particle Physics
- Dr. Indrani Chakraborty: High Energy And Particle Physics
- Dr. R.K. Gopal: Material Science
- Dr. Manoj Tripathi: Waste And Bio Energy Management
- Dr. Ashish Bhatnagar: Energy Storage Devices
- Dr. Vaibhav Rawoot: High Energy And Particle Physics
- Dr. Anuj Kumar: Solid State Magnetic Materials
- Dr. Sudip Kumar Haldar: Quantum Computation
- Dr. Ravi Gupta: Nanotechnology, Plasma Physics And Voice Forensics
- Dr. Sandeep Mishra: Quantum Optics, Quantum Computing
- Dr. Bharti Arora: Astrophysics
- Dr. Narender: Theoretical Physics
- Dr. Narinder Kaur: Hydrogen Production

