



Department of Physics

National Institute of Technology Silchar

PHD ADMISSION JULY-DECEMBER 2025

Thrust Areas

EXPERIMENTAL CONDENSED MATTER PHYSICS

- Nanogenerators
- Memristive Devices
- Photovoltaics & Photocatalysis
- Hydrogen Generation
- Metal-Air Battery
- Non-linear Optics
- Dielectric Ceramics & Thin films
- Multiferroics
- Structural Phase Transitions

THEORETICAL CONDENSED MATTER PHYSICS

- Quantum Transport
- Topological Superconductivity
- Non-Hermitian Physics
- Density Functional Theory

THEORETICAL HIGH ENERGY PHYSICS

- Gauge/Gravity Duality
- String Cosmology
- Black Hole Thermodynamics
- B Physics & CP Violation

Facilities

- XRD (CIF)
- UV-Vis -NIR Spectrophotometer
- Gas Chromatograph
- Photoluminescence Spectrometer
- Electrochemical Workstation
- Physical Vapour Deposition System
- Electrospinning
- Spincoater
- Solar Simulator
- Advanced Material Synthesis
- High Performance Computing Facility
- Semiconductor parameter analyzer



Contact Us

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<https://physics.nits.ac.in>

- **Last date for submission of application form: 25.05.2025**
- Examination date: 16.06.2025 - 17.06.2025
- Application link: admission.nits.ac.in