

SHORT TERM COURSE ON
RECENT TRENDS IN
INDUSTRIAL NANO
TECHNOLOGY (RTINT 2025)



School of Nano Science and Technology
Indian Institute of Technology
Kharagpur-721302
West Bengal, India



Coordinators:
Dr. Soumyadip Choudhury
Dr. Indranath Chakraborty
Dr. Shivendu Ranjan

5th May to 9th May
2025



REGISTRATION PROCESS

By online application:

- Go to “**Apply for CEP Events**” menu on the institute home page.
- Click on how to apply at the top of the page.
- Follow the instructions given there for signing up and editing your profile.
- Scroll down to the “**Short Term course SELF SPONSORED on “RECENT TRENDS IN INDUSTRIAL NANO TECHNOLOGY 2025”**”.
- Click on the “**Apply Now**” Button and follow the instruction page available at the How to Apply link.

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TOPICS LIKELY TO BE COVERED

- Fundamentals of Nano Science & Technology
- Synthetic approaches of nanomaterials
- Nanofabrication Technologies
- Carbon nano materials
- How to characterize nano?
- Electron microscopy and X-ray Photoelectron spectroscopy
- Nanocomposites
- Hybrid Nanomaterials and applications
- Design and Analysis of “Nanoscaled materials by Computer Simulation
- Nano-Device for Energy Harvesting and Sensing
- Surface Coatings and Adhesion
- Sustainability and Circular Economy
- Nano in healthcare

LECTURES

Lectures will be delivered by the academicians and experts from R&D organizations and industries.

ELIGIBILITY

Candidates must be graduates in Science /Engineering/Technology and from Research organizations, Industries or Start-ups.

OBJECTIVE

Nanotechnologies contribute to almost every field of science, including physics, materials science, chemistry, biology, computer science, and engineering. Notably, in recent years, the world of nano is even expanded to pharmaceuticals, human health and advanced treatments. Besides, a large fraction of nanotechnology is covered in defense related researches, miniaturization of devices, surface coatings and so on. This short term course is aimed to cover all the abovesaid aspects from industrial perspectives starting from synthesis, characterization, application, handling, safety aspects. The course will provide theoretical understanding as well as in-hand characterization of nanomaterials in our various laboratories. At the end, all participants will receive certificates for participation.

REGISTRATION

Registration fee of the course for each participant is Rs. 15000/-. This fee includes registration kit and course materials. Candidates will be selected on "First come, First served basis".

TRAVEL EXPENSES

All travel expenses will have to be borne by the participants.

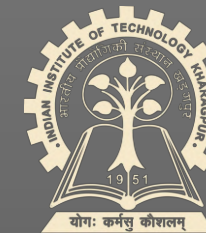
BOARDING AND LODGING

Boarding and lodging will be arranged in the guest house inside campus on chargeable basis.

The lecture notes for all sessions will be supplied to the participants in the form of a book, which will also be available after the course is over on payment basis. From our previous experience, this kind of books found to be useful to the industry people for a quick glance of Nano technology. We are inviting advertisement for the book. A full page advertisement charge will be Rs. 15000/- (Rupees Fifteen thousands only). A complimentary copy of the book will be provided to the advertisers.



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*Scope for GOLD, SILVER and BRONZE
sponsorship available. Contact the
coordinators for details.*