

## CHANDIGARH

Chandigarh is a union territory of India, that serves as the capital of two states, Punjab and Haryana. It is referred to as The City Beautiful. The gently sloping plains on which modern Chandigarh exists, was in the ancient past, a wide lake ringed by a marsh. The fossil remains found at the site indicate a large variety of aquatic and amphibian life, which was supported by that environment. About 8000 years ago the area was also known to be a home to the Harappans. As the first planned city of India, Chandigarh is known internationally for its architecture and urban planning. Chandigarh is home to numerous architectural projects of Le Corbusier, Pierre Jeanneret, Matthew Nowicki, and Albert Mayer. The city tops the list of Indian States and Union Territories with the highest per capita income in the country. As per a study conducted by Ministry of Urban Development, Chandigarh has emerged as the cleanest city in India. The city is surrounded by a 16 kilometer wide greenbelt to ensure that no development could take place in the immediate vicinity of the town, thus checking suburbs and urban sprawl; hence is famous for its greenness too. Though the city, being relatively very young, does not have historical monuments to boast of, it definitely manages to impress the tourists with its modern architecture and natural beauty (parks, lakes, etc).

## ELIGIBILITY

M.Sc/ M.Tech and Ph.D students belonging to Schedule Tribes (Physical, Chemical and Life Sciences)

## APPLICATION PROCEDURE

Applicants are requested to download the application from INST website [www.inst.ac.in](http://www.inst.ac.in). Send the duly filled in application form with the following documents to [atnst@inst.ac.in](mailto:atnst@inst.ac.in)

- Filled in Application Form
- Self Attested Caste Certificate
- Detailed Resume
- Justification towards attending the workshop (250 words)
- Recommendation letter from Supervisor/ HOD/ Head of Institute/ Registrar.

## SELECTION PROCEDURE

All the applications received will be screened by a Screening Committee and the candidates will be shortlisted based on their Academic backgrounds.

## IMPORTANT NOTE

- There is no registration fee
- All the expenses related to travel (as per DST norms), accommodation in hostel/guest house and food will be covered for all selected participants

## VENUE

Institute of Nano Science and Technology  
Habitat Centre, Phase- 10, Sector- 64  
Mohali, Punjab - 160062

# Workshop in Nano, 2017



## Advanced Techniques in Nano Science and Technology

(A Special Workshop for young researchers  
from Schedule Tribes)

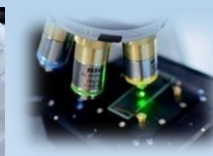
13<sup>th</sup> – 16<sup>th</sup> December 2017

### Organized by

Institute of Nano Science and Technology  
(an autonomous institution of DST)

### Sponsored by

Department of Science and Technology  
(DST), Government of India



## **MOTIVATION**

Nanotechnology, the manipulation of matter at the atomic and molecular scale to create materials with remarkably varied and new properties, is a rapidly expanding area of research with huge potential to revolutionize our lives and to provide technological solutions to our problems in agriculture, energy, environment and medicine.

This workshop is an extension of INST's outreach program, where the Director along with Scientists travel to Schools in remote and rural areas to encourage students to pursue a career in Science and for an overall development of students from these areas. 250 schools from all over the country have been covered so far. In appreciation of INST's endeavors in outreach activities, the Department of Science and Technology has funded INST to contribute to the exposure of Scheduled tribes to Science and technology. This workshop is an outcome of INST's Outreach Program

## **ABOUT INST**

Institute of Nano Science and Technology (INST), Mohali (Punjab), an autonomous institution of Department of Science and Technology (DST), Government of India, has been established under the umbrella of NANO MISSION, initiated by DST to boost research and development in the field of Nanoscience and Nanotechnology in India.

INST started its activities on 3rd January 2013, the date on which its first Director was appointed. The institute is currently operating from its transit campus at Habitat Centre, Sector-64, Phase-X, Mohali, Punjab. The new campus of INST would be set up on 35 acres of land in the Knowledge City at Sector-81 (Mohali, Punjab), next to IISER Mohali campus, which is very near to new Chandigarh International Airport. INST, amongst other scientific institutions of Chandigarh and its nearby area is also part of Chandigarh Region Innovation and Knowledge Cluster (CRIKC), an initiative of Punjab Government to foster and sustain close academic alliances between institutions of higher education and research in the Chandigarh region.

## **TOPICS COVERED**

- Transmission Electron Microscopy
- Scanning Electron Microscopy
- Atomic Force Microscopy
- Confocal Microscopy
- Dynamic Light Scattering
- UV- Visible Spectroscopy
- Photoluminescence spectroscopy
- Fourier-transform infrared spectroscopy
- Raman Spectroscopy

- Electro Analytical Technique
- Cyclic Voltammetry
- Potentiometry
- Amperometry
- X ray Diffraction
- Thermogravimetric analysis
- Differential thermal analysis
- Flow Cytometry

## **Experts will be from various National Institutes and Universities**

### **IMPORTANT DATES**

Start date of application

**10<sup>th</sup> October 2017**

Deadline for submission of application

**3<sup>rd</sup> November 2017**

Announcement of Shortlisted Candidates

**10<sup>th</sup> November 2017**

### **CONTACT**

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Chairman, Advanced Techniques in Nano Science and Technology (ATNST)

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