

**Short Term Course**  
**on**  
**Material Characterization**  
**Techniques**  
**(May 20-24, 2019)**  
**(One Week Duration)**  
**(Sponsored by TEQIP-III)**



Jointly organized by

**Department of Physics, Dr B R Ambedkar  
National Institute of Technology, Jalandhar  
– 144 011, Punjab**

and

**Department of Mechanical Engineering, Dr  
B R Ambedkar National Institute of  
Technology, Jalandhar – 144 011, Punjab**

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Dr B R Ambedkar National Institute of Technology

GT Road Bye-Pass, Jalandhar 144011 Punjab

Website: [www.nitj.ac.in](http://www.nitj.ac.in)

**ABOUT THE COURSE**

With advancement in Science and Technology the characterization of materials using different advance techniques like FESEM, HRTEM, STM, AFM, Powdered XRD, Single crystal crystallography, Solid state NMR, Raman Spectroscopy etc, has become the necessity before the findings/investigations could be published in reputed journals. Therefore the present short term course has been designed in such way that necessary deep knowledge could be delivered to the participants so that they could serve the scientific society in a better way and with depth of the knowledge.

The Resource Persons for the course will be highly experienced faculty members from reputed Institutes like IITs, Panjab University Chandigarh, Central Universities, CSIR Laboratories, IISERs, etc. Students and faculty members from government and private organizations with post graduate degree are eligible to attend the course. The programme is of interdisciplinary nature. Only limited numbers of seats (50) are available. The interested persons need to apply on the address of the coordinator on the prescribed Performa by due date through proper channel. The registration process will be completed only when the registration form is received. However, the candidates may send an advance copy directly through e-mail, post or by hand. Please send the duly filled prescribed Performa for registration to the coordinator latest by **10-05-2019**.

**GENERAL INFORMATION**

- Registration kit, Course material and working lunch shall be provided to the participants.
- No TA/DA shall be paid to the participants. The participants are expected to bear TA/DA themselves.
- Stay in hostels can be arranged for the outstation candidates on payment basis if desired.

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Name: \_\_\_\_\_

(In capital letters)

Designation: \_\_\_\_\_

Department: \_\_\_\_\_

Organization: \_\_\_\_\_

Address: \_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

Contact No: \_\_\_\_\_

Email: \_\_\_\_\_

Accommodation Required: (Yes/No)

Details of Demand Draft: \_\_\_\_\_

Signature of the Participant: \_\_\_\_\_

**RECOMMENDATION OF THE SPONSORING AUTHORITY:**

The applicant is hereby sponsored and will be permitted to attend the Summer School, if selected.

Date: \_\_\_\_\_ and Seal of Sponsoring Authority  
Signature Authority

## About NIT, Jalandhar

Dr B R Ambedkar National Institute of Technology Jalandhar is amongst the 31 NITs established by Ministry of HRD, Government of India. The institute came into existence in the year 1988 (earlier Regional Engineering College Jalandhar) and obtained the status of Institute of National Importance by Act of Parliament 2007. The institute is offering B Tech programme in various disciplines like Computer Science and Engineering, Electronics and Communication Engineering, Instrumentation and Control Engineering, Mechanical Engineering, Civil Engineering, Textile Technology, Biotechnology, Chemical Engineering, and Industrial & Production Engineering. In addition to B Tech programmes, the institute offers MBA, M Sc programmes in Physics, Chemistry and Mathematics, M Tech programmes in all Engineering departments, and Ph D programmes. As on date, there are about 192 candidates pursuing Ph D at the campus. As per NIRF conducted by MHRD in 2018, the institute has been ranked 74th amongst all engineering institutions including IITs/NITs in the country.

### Vision

To build a rich intellectual potential embedded with interdisciplinary knowledge, human values and professional ethics among the youth, aspirant of becoming scientists, engineers and technologists so that they contribute to society and create a niche for a successful career.

### Mission

To become a leading and a unique institution of higher learning, offering state-of-the-art education, research and training in science, engineering and technology to students who are able and eager to become change agents for the industrial and economic progress of the

nation. To nurture and sustain an academic ambience conducive to the development and growth of committed professionals for sustainable development of the nation and to accomplish its integration into the global economy.

## Who can attend the Course?

A Faculty Member/ Research Scholar of an Engineering/Science Institution/professional from Industry can attend the course. The interested persons need to apply to the Coordinator in the prescribed format by due date (through proper channel) along with a registration fee. **The registration fee has to be enclosed in the form of a demand draft favoring "The Director, Dr B R Ambedkar National Institute of Technology Jalandhar" payable at Jalandhar. However no registration fee will be charged from internal Research Scholars (NIT Jalandhar)**

## Registration Fee per participant

**(a) From academic Institute @ Rs. 500/-**

**(b) From Industries @Rs. 2000/-**

The selection will be made on the basis of 'first come first serve' and confirmation letters will be sent as soon as the Registration Forms are received to enable the participants to make travel arrangements in time. The registration process will be considered as complete only after the registration form is received through proper channel; however, the candidates may submit advance copy directly through email, post or by hand.

**VENUE: Virtual Class Room, NKN Hall, 2<sup>nd</sup> Floor IT Park, Dr BR Ambedkar NIT Jalandhar**

## IMPORTANT DATES

- **Last Date of Registration: 10.05.2019**
- **Confirmation of selection: 13.05.2019**

**For registration:** Please apply to the following on the prescribed performa by due date.

### Dr Rohit Mehra, Coordinator

Associate Professor, Department of Physics

Phone: 0181-2690301-02

Mobile: 9888534590; e-mail: mehrar@nitj.ac.in

### Dr Raman Bedi, Coordinator

Associate Professor, Department of Mechanical Engineering

Phone: 0181-2690301-02

Mobile: 9815981054; e-mail: bedir@nitj.ac.in

## Organizing Committee

### Chief Patron

**Professor Lait Kumar Awasthi**

**Director, Dr BR Ambedkar NIT Jalandhar Jalandhar**

## Patrons

- **Dr Harleen Dahiya**  
**Head Department of Physics,**  
**Dr BR Ambedkar NIT Jalandhar**
- **Dr Dinesh Shukla**  
**Head Department of Mechanical Engineering,**  
**Dr BR Ambedkar NIT Jalandhar.**