

About NIT Jalandhar

Dr B R Ambedkar National Institute of Technology Jalandhar is amongst the 20 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 "Institute of National Importance" by Act of Parliament 2007. The institute is offering B.Tech program 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 programs, the institute offers M.Sc. programs in Physics, Chemistry and Mathematics, M.Tech programs in all Engineering departments, and PhD programs.



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.

Organizing Committee

Chief Patron

Sh. Subhash Chandra Ralhan,
Chairperson, BOG, Dr B R Ambedkar National Institute of Technology Jalandhar

Patron

Prof. Rajiv Kumar Garg
Director (I/C), Dr B R Ambedkar National Institute of Technology Jalandhar

Co-Patron

Dr S K Mishra
Registrar & Head CCE, Dr B R Ambedkar National Institute of Technology Jalandhar

Convenor

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One Week Online Short Term Course on

“Advanced Techniques of Material Characterization for Research”

25-29th October 2021

Convenor
Dr. Raman Bedi

Coordinators
Dr. Vickram Jeet Singh
Dr. Anjireddy Bhavanam
Dr. Sathiya S



Organized by

Institute Instrumentation Center (IIC)
&
Centre for Continuing Education
Dr B R Ambedkar National Institute of Technology
Jalandhar-144011 Punjab

www.nitj.ac.in

Objectives of the STC

The one-week short-term course on “Advanced Techniques of Material Characterization for Research” is organized to impart knowledge on various techniques used for material characterization. The course is designed to highlight various characterization techniques (surface morphology, surface analysis, molecular structure, thermal analysis, etc) needed by academics as well as industry. The course will not only cultivate the brain storming for the insightful research in material science but can also be beneficial for technological applications of smart functional materials. The course is designed for students, researchers, and teachers so as to focus on fundamentals and applications of characterization techniques such as Nuclear Magnetic Resonance (NMR) spectroscopy, Thermal analysis, Surface morphology and characterization, BET surface area analysis, Rheology and its application, Dynamic Light scattering and Zeta-Potential, Energy dispersive X-ray spectroscopy

The main objectives of the course are:

1. To highlight the importance of material fabrication.
2. To provide knowledge regarding various techniques used for material characterization.
3. To provide insight knowledge on fundamentals and applications of characterization techniques.
4. Role of material characterization for development and application of smart functional materials.
5. To develop analytical and creative thinking needed for research.

Who can attend the STC?

Industry professionals/ Faculty members/ research scholars/ students can attend the short term course.

Registration details

The registration fee for participants is ₹200 for Internal Participants (NITJ) and ₹250+18% GST for External Participants (Outside NITJ). Interested participants may kindly register and pay fee from the Registration link provided on or before **20th October 2021**.

Confirmation of Participation

After the last date of registration, participants will be sent confirmation of their participation in STC through email. Single registration to attend all sessions. Prior registration is mandatory to attend STC. E-certificate will be issued to the participants on successful participation of the course. STC link for attending lectures and other instructions will be shared via e-mail to all registered participants.

About the Institute Instrumentation Centre (IIC)

Institute Instrumentation Center has been established with an aim to provide high end research facilities to faculty/students/research scholars of the institute. The analytical facilities of IIC are also extended to the students, researchers and faculty members of other Institutes and Organizations of the country as well. Collaboration with Industries on R & D and Consultancy Projects are also welcome by the Institute. Institute Instrumentation Centre aims to -

- Provide facilities for characterization, high- resolution imaging and precision chemical analysis of different kinds of materials.
- Dissipate knowledge and experience in the above through short-term courses/seminar/workshops etc.

STC Collaborators



For Registration and Payment



Scan QR code for registration
Or
Click the below link

https://www.nitj.ac.in/events_registration/stc_atmcr/login

For any queries, please contact

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