

About NIT, Jalandhar

Dr B R Ambedkar National Institute of Technology Jalandhar is amongst the 32 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. 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 M Sc programmes in Mathematics, Physics and Chemistry, M Tech programmes in all Engineering departments, and Ph D programmes.

Location

The institute is located on G.T Road Amritsar by-pass at a distance of 15 km from Jalandhar Bus Stand, 12 km from Jalandhar City Railway Station, and 18 km from Jalandhar Cantt. Railway Station. It is connected to New Delhi by Road through AC bus service and Rail through Shatabadi/Superfast trains. The city is surrounded by famous rivers Sutlej and Beas. Jalandhar is internationally famous for sports goods industry and hand tools industry.

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 Short Term Course?

The short term course can be attended by:

1. The faculty, Post graduation students and PhD research scholars of Sciences, Engineering.
2. The Engineers and Managers form Industry, and Scientists from R&D organisations.

For registration: The registration fee for participants is INR 1000/- to be transferred to the following account:

Account No.- **2945101004642 (CANARA Bank)**

Account Holder Name- **Optimization and Statistical Models**

Branch- **Dr. B. R. Ambedkar Nit**

IFSC Code- **CNRB0002945** MICR Code: **144015011**

Please send the duly filled prescribed performa to the mentioned email ids and also fill the Google form at

<https://tinyurl.com/vdv195g>. Maximum number of participants allowed for this course will be 40.

Organizing Committee

Patron

Professor (Dr.) L. K. Awasthi

Director, Dr B R Ambedkar National Institute of Technology Jalandhar

Coordinators

Dr. R. R. Sinha

Assistant Professor
Department of Mathematics
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Dr. Deepika Rani

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Convener

Dr. Kapil Kumar Goyal

Assistant Professor
Department of Industrial and Production Engineering
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Departmental Organizing Committee

1. Dr. Jaspal Singh Aujla
2. Dr. Damanjit Kaur
3. Dr. Geeta Pratap
4. Dr. Anupam Yadav
5. Dr. Ravinder Singh
6. Dr. M. Zafar
7. Dr. Sukhjot Singh
8. Dr. Ravinder Kumar

One Week Short Term Course (Under TEQIP-3)

On

"Optimization & Statistical Models and Tools"

(10 to 14, April 2020)

Organized by



Department of Mathematics

Dr. R. R. Sinha (Coordinator)

Dr. Deepika Rani (Coordinator)



**Dr. B. R. Ambedkar National Institute of
Technology Jalandhar-144011 Punjab**

www.nitj.ac.in

Objectives of the Short Term Course

Decision making is an integral part of one's daily life. With the advent and wide-spread use of modern technologies (soft as well as hard), these fields are inevitably influenced. This STC is being proposed, sensing the need to strengthen the faculty and research scholars of Sciences, Engineering engaged in teaching and research in these areas.

The proposed STC intends to cover a good selection of contemporary advancements in various issues of the field. This short term course will offer ample opportunity in exposing to the latest advancements in the field of statistics and operations research. The participants from academics will be benefited immensely and this course will be a guide to learn and carry out research activities in these fields. The industry participants may adopt the models and tools in order to improve the efficacy of their organizations to take up the challenge and better competitiveness.

Course Contents (tentative)

In this short term course, resource persons of eminence from various organizations will deliver expert lectures and discuss the latest research issues on various topics like:

- Decision making tools and techniques
- Multi-objective/Multi attribute Decision Making
- Nature inspired optimization techniques, for instance, PSO, GA, ABC, ACO etc.
- Parametric and non-parametric statistical tests
- Statistical inference, Sampling techniques
- Reliability modeling and applications in various fields

The objectives of this short term course on Recent Advances in Industrial Engineering are:

- To aware the participants about the decision making tools and techniques
- To highlight the application and benefits of optimization and statistics in real world.

Aims of the Short term course

1. To have the insight of various optimization and statistical methods for decision making.
2. To study the nature inspired techniques for decision making methods and its applications in various fields.

3. To provide an opportunity for the participants to interact with the field experts.
4. To impart knowledge to the participants pertaining to theoretical as well as analytical treatment to the problems related with optimization and statistics.

General Information

- Registration kit and Course material shall be provided to the participants.
- No TA/DA shall be paid to the participants. The participants are expected to bear TA/DA themselves.
- Limited accommodation would be available in the NITJ Guest Rooms/Hostels for outstation participants on nominal charges at first come first serve basis
- Last date of receiving of registration forms: 05.04.2020.
- Reporting date and time/venue at the Institute: 10.04.2020 at 9.00 a.m. in NKN Hall of IT Park

About the Department

The Department of Mathematics promotes excellence in teaching, research, collaborative activities and positive contributions to society. Department offers high quality graduate and post graduate programs to prepare students for professional career or higher studies in area of pure and applied mathematics. The department keeps in pace with the advances in technology, by providing its students state-of-the art computer facilities. The students gain knowledge of various new areas of research using internet facilities made available in their labs and hostels. The course curriculum has been designed compatible to the existing and emerging needs of the real world. Adequate inputs of practical training, case studies, project work and computer applications are given to support core theory courses. The students get the opportunity of attending seminars and invited lectures delivered by eminent mathematicians and computer scientists. They also get the opportunity for campus placement in various educational institutes of repute, national and multinational companies

Academic Programmes offered by the Department

- M.Sc. in Mathematics
- Ph.D. Programme (Full Time)
- Ph.D. Programme (Part Time)
- Mathematics to various engineering streams of B.Tech. and M.Tech.

**Dr. B. R. Ambedkar National Institute of Technology
Jalandhar-144011 Punjab**



**One-Week Short Term Course
(Under TEQIP-3)**

on

**“Optimization & Statistical
Models and Tools”
(10 to 14, April 2020)**

REGISTRATION FORM

Name: Mr./Ms./Dr. _____
(In capital letters)

Designation: _____

Department: _____

Organization: _____

Address for Correspondence: _____

Mobile No: _____

E-mail ID: _____

Date _____

Signature and Date _____

RECOMMENDATION OF THE SPONSORING AUTHORITY:

The applicant is hereby sponsored and will be permitted to attend the short term course, if selected.

Date: _____

Signature and Seal of
Sponsoring Authority