

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 "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 of an Engineering 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) alongwith 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.

Registration Fee per participant

- (a) From academic Institute @ Rs. 1000/-
- (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: Department of Industrial and Production Engineering, NIT Jalandhar

IMPORTANT DATES

- **Last Date of Registration: 10.01.2019**
- **Confirmation of selection: 13.01.2019**

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

Dr R K Garg, Coordinator

Professor, Department of Industrial & Production Engineering,
Phone: 0181-2690301-02, Ext 2803
Mobile: 9417549528
e-mail: gargrk@nitj.ac.in

Dr Sonia Chawla, Coordinator

Associate Professor, Department of Hum. and Management
Phone: 0181-2690301-02, Ext 3204
Mobile: 9888250412
Email: chawlas@nitj.ac.in

Dr Jai Gopal Gupta, Coordinator

Head and Assistant Professor, Dept. of Mech. Engg,
Govt. Women Engg. College Ajmer, Rajasthan
Mobile: 79414931979
Email: jaigopalg@gmail.com

Organizing Committee

Chief Patron

Professor Lait Kumar Awasthi
Director, NIT Jalandhar Jalandhar

Head of Department

Dr Ajay Gupta

Advisory Committee

Dr Arvind Bhardwaj
Dr Vishal Sharma
Dr Anish Sachdeva
Dr S K Mishra (Registrar)
Dr L P Singh
Dr Rajeev Trehan
Dr Rajesh Sharma

Short Term Course

on

“Research Methods and Data Analysis Using SPSS”

(January 20-24, 2019)

(One Week Duration)

(TEQIP-III Sponsored –
Twinning Programme)



Jointly organized by

Department of Industrial and Production Engineering, Dr B R Ambedkar National Institute of Technology, Jalandhar – 144 011, Punjab (Mentor)

and

Department of Mechanical Engineering, Govt. Women Engg. College Ajmer, Rajasthan (Mentee)

Dr B R Ambedkar National Institute of Technology

GT Road Bye-Pass, Jalandhar 144011 Punjab

Website: www.nitj.ac.in

OBJECTIVE OF THE COURSE

The course will emphasize both research process and data analysis (including multivariate). It will help to master the research process and strengthen data analysis skills. Objectives of the course include:

- Conceptual clarity of the research process and methodology.
- To maximize hands on development of practical skills and data analytical tools.
- To enable the participants to define research problem and select suitable research design.
- To impart capabilities for formulation and testing of hypothesis based on the nature of research.
- Discussions and Interaction by Experts and experience sharing with co-participants from different research areas across India..

COURSE COVERAGE

The important contents of the short term course are as follows:

- Introduction to Research, Research Design, Data collection, Sample design, Sampling Techniques. Formulation of Hypothesis: Null and Alternative.
- Descriptive Statistics, F –Test, One Way ANOVA, Two Way –ANOVA, Post Hoc Test, Mann Whitney, with Case study, Practice session
- Correlation analysis, partial correlation, non-parametric correlation with case study, Linear Regression, Bivariate and Multivariate Regression Models
- Data Reduction Technique: -Factor Analysis with case study. Factor Analysis , Practice Session

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.

ABOUT THE DEPARTMENT

Department of IPE has been offering Undergraduate Programme (B.Tech in Industrial & Production Engineering) since 1989, Post-graduate Programme in Industrial Engineering (part-time) and Manufacturing Technology (full-time) from year 2001 and 2006 respectively. The course curriculum has been designed compatible to the existing and emerging needs of the industry. The autonomy of the Institute is a privilege to the department in terms of flexibility to modify and revise courses/syllabi at different time intervals to cater contemporary needs of the Industry. The Department has established state-of-the-art facilities in various laboratories.

ACADEMIC PROGRAMMES OFFERED BY THE DEPARTMENT

[Undergraduate Programme](#)

B Tech in Industrial & Production Engineering

[Postgraduate Programmes](#)

M Tech in Manufacturing Technology

(Full Time)

M Tech in Industrial Engineering

(Full Time)-from next academic session)

[Ph.D. Programme \(Full Time\)](#)

[Ph.D. Programme \(Part Time\)](#)

Dr B R Ambedkar National Institute of
Technology Jalandhar 144011 Punjab
and
Govt. Women Engg. College Ajmer,
Rajasthan

Short Term Course

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Name:

(In capital letters)

Designation:

Department:

Organization:.....

Address:.....

.....

.....

Contact No:

Email:

Accommodation Required: (Yes/No)

Details of Demand Draft:.....

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.....

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**