

### 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 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 M Sc programmes in Physics, Chemistry and Mathematics, 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 of Engineering and Management Institutions.
2. The Engineers and Managers from Industry and Scientists from R&D organisations.
3. M. Tech. and PhD research scholars.

**For registration:** Please send the duly filled to the following prescribed performa to the coordinators latest by 30-06-2018.

### Organizing Committee

#### Patron

#### Professor (Dr) L K Awasthi

Director, Dr B R Ambedkar National Institute of Technology Jalandhar

#### Coordinator (Mentor Institute)

#### Dr. Lakhwinder Pal Singh,

Assistant Professor,  
Department of Industrial & Production Engineering,  
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#### Coordinator (Mentee Institute)

#### Dr. Jai Gopal Gupta

HOD and Assistant Professor,  
Department of Mechanical Engineering  
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Web page:  
<http://gweca.ac.in/FacultyViewController/GetFacultydetails/69>

### About GWECA

GWECA holds the privilege of being first Government Engineering College for Women in the north India, established in April, 2007. With 2500 students in various bachelor and masters courses, the college is acting as a pedestal to explore the hidden talent for technical and managerial excellence. The college is located on NH-79 and is easily accessible through rail and road. The nearest airport is at Jaipur. Ajmer is the heart of the royal state of Rajasthan, situated in the South west of Jaipur, and wrapped through the greens of Arravali hills. Ajmer houses the Pushkar Teerth and tomb of 13th century Sufi Saint Khwaja Moinuddin Chisthy, which are uniformly valued by all.

# One Week Short Term Course (Under TEQIP- III) on “Industrial Engineering: A Paradigm Shift in Manufacturing and Service Industry”

(06 to 10 July 2018)

Organized by



Dr B R Ambedkar National Institute of Technology  
Jalandhar 144011 Punjab

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

In association with

Govt. Women Engineering College Ajmer  
Rajasthan 305002

[www.gweca.ac.in](http://www.gweca.ac.in)

Organized By



Dr. L P Singh

Department of Industrial & Production Engineering  
Dr B R Ambedkar National Institute of Technology  
Jalandhar 144011 Punjab

Dr. Jai Gopal Gupta

Department of Mechanical Engineering  
Govt. Women Engineering College Ajmer  
Rajasthan 305002

### Objectives of the Short Term Course

The industrial engineering does not only consider the behaviour of inanimate objects as they are governed by physical laws, but also the behaviour of people as they operate together in organizations. This branch of engineering is concerned with the integrated systems of people, and the design, improvement and installation of materials and equipment.

The role of industrial engineer has increased in this era of globalization and is critical to a company's financial success, as the technologies that must be integrated are increasingly complicated and costly, and the competition in the world marketplace is great. Globalization has opened profound opportunities bundled with ample challenges for the business world. Business gurus put forward the key solution led by Industrial engineering techniques to such challenges. Business regime has been in the mode of aligning and coordinating their day to day business process for effective utilization of Industrial engineering.

This short term course will offer ample opportunity in exposing to the latest advancements in the discipline of Industrial Engineering. The participants from academics will be benefited immensely by these latest updates to improve their curriculum 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:

- Basics of Industrial Engineering
- Lean Six Sigma, Quality
- Supply Chain and Logistics Management
- Decision making tools and techniques
- Human Factor Engineering and Ergonomics in Manufacturing and Service Industry
- Optimization models
- Soft computing techniques
- Efficiency in Solar Power Generation

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

- To aware the participants about the recent scope of research in Industrial Engineering.
- To highlight the application and benefits of Industrial Engineering in Industry.

### Aims of the Short term course

1. To have the insight into Industrial Engineering and its applications in industry.
2. To provide an opportunity for the participants to interact with the field experts.

### 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.
- Last date of receiving of registration forms: 30.06.2018.
- Reporting date and time/venue at the Institute: 06.07.2018 at 9.00 a.m. in NKN Hall of IT Park, NIT Jalandhar.

### About the Department

The Department of Industrial & Production Engineering, Dr. B R Ambedkar NIT Jalandhar has been offering Under-graduate 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. Adequate inputs of practical training, industrial tours, case studies, project work and computer applications are given to support core theory courses. Presently about twenty research scholars are registered in the department for pursuing Ph.D.

### Academic Programmes offered by the Department Undergraduate Programme

- B.Tech in Industrial & Production Engineering

### Postgraduate Programmes

- M.Tech in Industrial Engineering (Part-Time)
- M.Tech in Manufacturing Technology (Full Time)
- Ph.D. Programme (Full Time)
- Ph.D. Programme (Part Time)

Dr B R Ambedkar National Institute of Technology  
Jalandhar 144011 Punjab



## One-Week Short Term Course (Under TEQIP- III)

on

## “Industrial Engineering: A Paradigm Shift in Manufacturing and Service Industry

(06 to 10 July 2018)



### REGISTRATION FORM

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

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

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

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

Address for Correspondence: \_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

Mobile No: \_\_\_\_\_

E-mail ID: \_\_\_\_\_

Dat \_\_\_\_\_

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