

One-week Short Term Course

On

*“Occupational Safety and  
Environmental Management  
in Process Industries”*

Under TEQIP-III

(June 03-07, 2019)



Organized by

**Department of Chemical Engineering**

**Dr. B. R. Ambedkar**

**National Institute of Technology**

**Jalandhar-144 011, Punjab**

**ABOUT THE INSTITUTE**

Dr. B. R. Ambedkar National Institute of Technology Jalandhar was established in the year 1987 as erstwhile Regional Engineering College and was given the status of National Institute of Technology by the Ministry of Human Resource Development, Government of India, New Delhi on October 17, 2002 under the Act of Parliament-2007. As an Institute of National importance, NIT Jalandhar comprehends its responsibility of providing high quality education in Engineering and Technology to produce competent technical manpower for the country. The Institute offers UG, PG and research programmes in all disciplines.

**ABOUT THE DEPARTMENT**

The Department was establishment in year 1990 and has been playing a vital role in the development of Chemical Engineering education and research by offering B Tech, M Tech and Ph D programmes. Its Alumni are occupying eminent positions in chemical industries, research and academic institutions in India and abroad.

**HOW TO REACH NIT JALANDHAR**

The Institute is located on G. T. Road, Amritsar bypass, 12 Km from Jalandhar Bus Stand, 11 Km from Jalandhar City Railway Station and 16 Km from Jalandhar Cantt. Railway Station. It is around 70 km away from Raja Sansi International Airport, Amritsar, 150 Km from Chandigarh Airport and 390 Km from Indira Gandhi International Airport, New Delhi. It is connected to New Delhi by rail through Shatabdi Express and other super-fast trains as well as through AC buses round the clock. The city is surrounded by famous rivers Sutlej and Beas and is internationally famous for agricultural products, textiles, leather goods, wood products, and sports goods. The nearby site seeing includes Golden Temple, Jallianwala Bagh, Wagah Border, Science City etc.

**OBJECTIVE OF THE COURSE**

Developing nations including India is facing severe challenges in the field of environment, health and safety. Major environmental issues include worsening of water quality, excessive air pollution, solid waste pollution, global warming, extreme weather, drought, flooding, land/soil degradation etc. Moreover, safety and health hazards in a process industry are also important as hazardous chemicals are being processed in extreme operating conditions in these industries. In light of above, it is important to study the course “Occupational Safety and Environment management in process industries”. The following topics, but not limited to, will be discussed during the course.

- Concepts of loss prevention
- Common risks and controls in the process safety industry
- Process intensification
- Occupational health hazards to workers
- Environmental impact assessments (EIA)
- Risk Assessment
- Risk Management Plan
- Management of Change (MOC)
- Security Vulnerability analysis (SVA)
- Safety in transportation of hazardous chemicals
- Fire Modelling
- Sustainable Development
- Industrial Ecology
- Pollution abatement techniques
- Clean and Green Processes
- Global climate change
- Lean management
- Secondary and Tertiary waste water treatment
- Toxic dispersion Modelling

**FACULTY**

The faculty of the course will be the experienced personnel from teaching, research, consultancy organizations, field and industry.

## PARTICIPANTS

A Faculty member/Research scholar of an Engineering and Technical institution (approved by AICTE)/professional from industry can attend the course. The programme is interdisciplinary one. Only limited number of seats are available. The interested person needs to apply by due date through proper channel.

## ACCOMMODATION

A limited number of rooms with shared accommodation are available in Institute Guest House and Hostel at NIT Jalandhar. Accommodation will be arranged on request on first come first serve payment basis.

## CHIEF PATRON

Prof. L K Awasthi  
Director, NIT Jalandhar

## PATRON

Dr. M K Jha  
Professor (On-Lien), NIT Jalandhar  
and Principal, ABVGIT, Shimla

## COORDINATORS

Dr. Sangeeta Garg, Associate Professor and Head  
Dr. Shailendra Bajpai, Associate Professor

## ORGANISING COMMITTEE

Dr. Ajay Bansal, Professor  
Dr. Renu Gupta, Associate Professor  
Dr. Poonam Gera, Associate Professor  
Dr. N K Srivastava, Associate Professor  
Dr. Jatinder Kumar, Associate Professor  
Dr Raj Kumar Arya, Associate Professor  
Dr. Neetu Divya, Assistant Professor  
Dr Amit Dhruv Saran, Assistant Professor  
Dr Anjireddy Bhavanam, Assistant Professor  
Dr Anurag Kumar Tiwari, Assistant Professor

Dr D Giribabu, Assistant Professor  
Dr Deepak Sahu, Assistant Professor  
Dr Nitin Naresh Pandhare, Assistant Professor  
Dr Shashikant Yadav, Assistant Professor

## REGISTRATION

The registration process will be completed only when the registration form along with registration fee is received, however, the candidates may send an advance copy directly through email, Post or by hand. Please send the duly filled prescribed Performa for registration to the Coordinator latest by May 25, 2019. However, no registration fee will be charged from internal research scholars (NIT Jalandhar).

- a) From Academic Institute @ Rs. 1000/-  
b) From Industries @Rs. 3000/-

## IMPORTANT DATES

- a) Last Date of Registration: May, 25, 2019**  
**b) Confirmation of selection: May, 30, 2019**

All the payments should be drawn as DD/multicity cheque/online transfer in favor of **OSEMPI-19, payable at Jalandhar (Punjab), Canara Bank NIT Jalandhar Branch (Code-2945), A/c No. 2945101004042, IFSC Code: CNRB0002945.**

The complete registration form along with transaction slip should reach by speed post or email latest by May, 25, 2019 to the following:

**Email: [osempi2019@gmail.com](mailto:osempi2019@gmail.com)**

Dr. Sangeeta Garg  
Associate Professor and Head  
Department of Chemical Engineering  
Dr. B R Ambedkar National Institute of Technology  
G T Road, Bypass, Jalandhar – 144 011. (Punjab)  
or  
Dr. Shailendra Bajpai  
Associate Professor  
Department of Chemical Engineering  
Dr. B R Ambedkar National Institute of Technology  
G T Road, Bypass, Jalandhar – 144 011. (Punjab)

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

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## REGISTRATION FORM

Name: .....

(in capital letters)

Designation: .....

Department: .....

Organization: .....

Address: .....

.....

Tel/ Fax: .....

Email: .....

Accommodation: Required/ Not required

Signature and Date: .....

## SPONSORSHIP CERTIFICATE

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

Date: ..... Signature and Seal  
of the sponsoring authority