

## Important Dates

Last date for Registration, April 20, 2018  
(Selection will be based on first cum first served basis from priority)

## Course Fee

Rs. 30,000/- per head inclusive of GST, which includes course materials and working lunch  
Rs. 10,000 /- students from other academic institutes

## Bank Details for Online Transfer

Bank Details: Canara Bank; Branch: Saraidhela, Dhanbad; A/c No: 0986101009746; IFSC code: CNRB0000986; RTGS: CNRB 0000986; MICR 826015003.

A copy of e-payment transaction details is requested to be sent to the course coordinator. IIT(ISM), Dhanbad, being an educational institute, is exempted from Income Tax. PAN No. of ISM: AAAI 0686D; Service Tax Regn. No. DNB/05/ISM/2001, GSTIN-20AAAI0686DIZA

## Nearby Accommodation Details

### Star Hotels

- \* Novatel Kolkata Hotel and Residence, Rajarhat, New Town-700156, Ph.: 033-40323333
- \* The Pride Hotel Kolkata, Rajarhat New Town-700156, Ph.: 03340259999

### Reasonable Guest House in the vicinity

- \* Millenium Guest House 9804104104 (Amar Singh), 8100778020 (Kripaji)
- \* New Town Guest House 7044064309 (Guptaji)
- \* Next Generation Guest House 033-23215536/37/38
- \* Jibanto Hospitality 9051099390

## Course Coordinators

### Dr. Manish Kumar Jain

Associate Professor & Coordinator  
Dept of Environmental Science & Engineering  
Centre of Mining Environment  
Indian Institute of Technology (ISM), Dhanbad -826004  
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### Dr. Vipin Kumar

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### Prof. A. K. Singh

Chair Professor & HOD, Former CMD, CMPDI  
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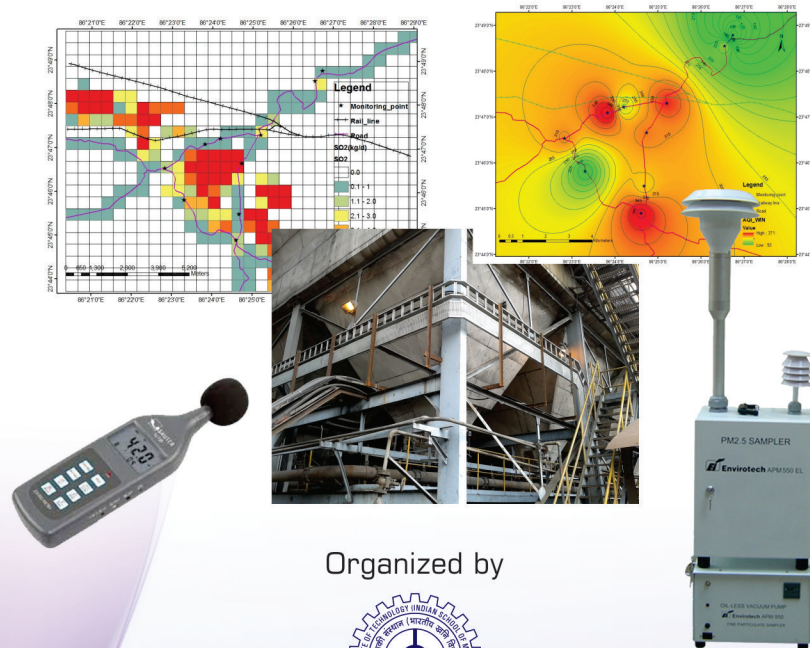
## Training Program on

# Air and Noise Quality Assessment, Prediction and Control for Industrial Areas

May 15-18, 2018

Venue:

IIT(ISM) Industry Institute Interaction Facility, Kolkata, India



Organized by



Department of Environmental Science and Engg.  
Centre of Mining Environment  
Indian Institute of Technology (Indian School of Mines)  
Dhanbad 826004, Jharkhand, India  
URL: <http://www.iitism.ac.in>



## Purpose

Air and Noise Quality has been a complex issue in most of the urban and industrial areas due to a variety of source contribution through fugitive and line emissions. Air pollution results in long-term reduction of productivity leading to deterioration of economic condition of a country. Air pollution includes particulate matter (SPM,  $PM_{10}$  &  $PM_{2.5}$ ), gaseous pollutant ( $SO_x$ ,  $NO_x$ , CO,  $NH_3$ ), PAH and heavy metals (Pb, Ni, As). Therefore, controlling air pollution to reduce risk of poor health, to protect the natural environment and to contribute to our quality of life is a key component of sustainable development. High levels of suspended particulate matter increase respiratory diseases such as chronic bronchitis and asthma, while gaseous emissions contribute to respiratory, cardiovascular, and cerebral problems (Lockwood et al., 2009). All the anthropogenic air pollution emissions could be attributed to industries, mobile sources, construction, garbage burning, agriculture etc. The sources are becoming more complex day by day as also emissions.

Proposed course will provide methodology for sampling and analysis of air and noise pollutants, various control techniques and their applicability and prediction methodologies for noise and air pollutants along with their importance in environmental clearance, reporting and auditing.

## Course Content

- Basics of Air and Noise Pollution and health impacts
- Monitoring and analysis of Air and Noise pollutants
- Various control techniques with respect to particulate matter, gaseous pollutant and noise pollution
- Vehicular pollution and control
- Prediction techniques and various available models

## About the institute



The Indian Institute of Technology (Indian School of Mines), Dhanbad was formally opened on 9th December 1926, by Lord Irwin, the then Viceroy of India to address the need for trained manpower related to mining activities in the country with disciplines of Mining and Applied Geology. In 1967 it was granted the status of a deemed to be university under Section 3 of UGC Act, 1956. Since its establishment, IIT(ISM), Dhanbad has undergone considerable expansion of its activities, and presently it is full fledged IIT under IIT amendment act, 2016. The departments of Petroleum Engineering and Applied Geophysics were established in 1957. The departments of Mechanical Engineering and Mining Machinery Engineering, Fuel and Mineral Engineering, Management Studies, and Electronics and Instrumentation Engineering were added in 1975-1977. The Centre of Mining Environment, the Computer Centre, the Centre of Longwall Mine Mechanisation, and the departments of Applied Chemistry, Applied Physics, and Applied Mathematics

were established between 1975 and 1987. The department of Computer Science and Engineering was added in 1997. The expansion of the institute into a total technology institute was further accelerated with the establishment of the Department of Electrical Engineering in the year 2005, the Department of Environmental Science and Engineering in 2006, Department of Chemical Engineering in 2010 and the Department of Civil Engineering in 2012.

## About the Department

The Department of Environmental Science & Engineering is created out of existing Centre of Mining Environment (Established in 1987 as center of excellence in the field of mine environment by the Ministry of Environment and Forests, Govt. of India) at Indian Institute of Technology (Indian School of Mines), Dhanbad in June 2007 with the commencement of a regular B.Tech. program in Environmental Engineering under IIT-JEE (first of its kind offered by any national institute). Apart from B.Tech. in Environmental Engineering, department is also offering M.Tech. in Environmental Science & Engineering from 1991 and Ph.D. in Environmental Science and Environmental Science & Engineering from inception in 1987. Department is well equipped with state of art laboratory in all the components of environment. Department is also offering services to industry in form of Research and Consultancy. Department successfully completed various ministry sponsored R&D projects, provided guidelines for making rules & regulation and answers to parliament questions. Department is also running Information system (ENVIS center on Environmental Problems of Mining) sponsored by Ministry of Environment, Forest & Climate Change.

## Date

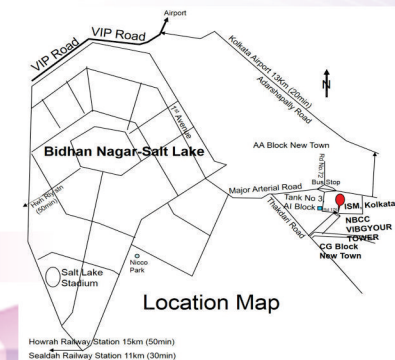
15-18 May, 2018

## Venue

IIT(ISM) Industry Institute Interaction Facility, 2<sup>nd</sup> floor, NBCC Shopping Complex Vibgyor Tower, Near Tank No 3, AI Block, St No 175, New Town, Rajarhat, Kolkata

## Landmarks to reach the Venue

Axis Mall, NBCC Vibgyor Tower, New Town (Bus Stop), Kolkata



## Participants

Executives engaged in Industries, Maintenance, Planning, Environmental Management, Research Scholars, Executives from Pollution Control Board.

## Nomination & Payments

The nomination letter should reach the coordinator on or before 20<sup>th</sup> April 2018 (e-mail/post) along with course fee through DD, RTGS in favour of "Registrar, Indian Institute of Technology (Indian School of Mines), Dhanbad-826004"

Training Program  
on  
**Air and Noise Quality Assessment,  
Prediction and Control for Industrial Areas**

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NBCC Shopping Centre (2nd Floor), New Town, Rajarhat, Kolkata, India

Organized by

Dept of Environmental Science & Engineering

Centre of Mining Environment

Indian Institute of Technology (Indian School of Mines), Dhanbad

**Registration Form**

1. Name: ( Capital Letters)

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2. Designation: .....

3. Organisation: .....

4. Category (Industry/ Academic/Student):..... Gender (M/F):.....

5. Mailing Address with PIN Code: .....

.....

5. Telephone / Mobile.....

Details of Payment:.....Amount:.....

Demand Draft (DD): .....

Details of Online transfer (Please attach proof for online transfer):.....

Place :

Date :

Signature

Note: Last date of Application is May 5, 2018. Send the filled registration form as scanned copy by  
e-mail (manishjkm@gmail.com/vipinmicro1@gmail.com / kumar.v.ese@iitism.ac.in).