Engineering Staff College of India

Autonomous Organ of The Institution of Engineers (India)

Old Bombay Road, Gachi Bowli, Hyderabad – 500 032. Telangana, India

Environment Management Division

CONTINUING PROFESSIONAL DEVELOPMENT PROGRAMME

Air Pollution Monitoring & Modeling using Software Applications – Theory & Practical's.

Powered by

ESCIUpSkill
A Smart Learning Platform

25 – 27 May 2021

Interactive Sessions | Digital Learning | Assessments | 24/7 Experts Online/Offline Support

Introduction

Air pollution has become a common phenomenon in the urban centres of the country. In recent times, a lot of emphasis has been placed on improving the air quality in urban centres. Air pollution in India is quite a serious issue with the major sources being fuel wood and biomass burning, fuel adulteration, vehicle emission and traffic congestion. In autumn and winter months, large scale choad residue burning in agriculture fields - a low cost alternative to mechanical tilling - is a major source of smoke, smog and particulate pollution. India has a low per capita emissions of greenhouse gases, but the country as a whole is the third largest after China and the United States.

The Air (Prevention and Control of Pollution) Act was passed in 1981 to regulate air pollution and there have been some measurable improvements. However, the 2016 Environmental Performance Index ranked India 141 out of 180 countries.

Air quality modeling is a tool for predicting the air quality at the places where it is not being monitored and also across the time horizons. It has been used extensively in devising appropriate strategies for air quality management. Moreover, air quality models have been used in environmental impact assessment studies to predict the impact of proposed projects over the air quality of the region, so that mitigation measures can be drawn for pollution prevention.

Both the monitoring and modeling of air pollution is essential to provide a picture of the damage humans are doing to the environment, and to enable pollution problems to be discovered and dealt with Air Pollution abatement.

Objectives

The objective of this programme is

1. To understand the basic concepts of Air quality monitoring and modeling
2. To learn the data requirements, input data preparation and methodologies for carrying our air quality modeling
3. To provide a demonstration on the use of an Air quality model

Course Coverage

- Air Pollution – Rules and Regulation
- Air Quality Standards
- Air Pollution Monitoring – Procedures (Ambient and Stack)
- Air Pollution Monitoring through pollution apps
- Air Pollution Modeling
- AERMOD software Demonstration & Practicals
- Air Pollution Control
- Case Study & Discussion

Methodology

Methodology of the programme includes class room Sessions with Lectures/discussions & Digital Learning through LMS Platform, Online Video Interactive sessions with Cloud based Hand-on Practical, Lecture / Discussion with audio visual aid, bench marked video shows, chalk & talk sessions, Online case studies, debates, sharing of experiences etc. All the sessions will be interactive demanding active participation from all the members.

Target Participants

This course is useful for engineers and managers working in the areas of project formulation including Environment and Forest clearances in Public and Private Sectors, Government Departments (undertaking Development Projects), Regulatory Boards, Consultancy firms, R&D & Educational Institutions, NGOs etc. Engineers & Executives involved in Air Pollution Monitoring and Modeling from different sectors can also attend the programme.

Programme Dates & Timings

Dates: 25 – 27 May 2021
Timings: After Registration Participant can access **ESCI LMS platform** for digital Learning
Session timings: 10:00 AM onwards.

Course Director

Ms. Anita Aggarwal
Faculty & Head I/c.
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Or Contact us at: Mr. GNM. Rao (Prog. Manager) – 9866431555.

Faculty/Speaker Details

Apart from the core internal faculty, Experienced Professionals/Faculties/Sector experts will be delivering the lively lecture with practical knowledge & case study.

Course Fee

- **Online fee** – Rs. 9,000/- (Rupees Nine Thousand only) per participant.
- **Residential Fee** – 20,000/- (Rupees Twenty Thousand only) per participant. Fee includes course material, course kit, twin-sharing/single AC accommodation as per availability, breakfast, lunch, dinner, tea / coffee and snacks during the actual days of training programme

GST @18% is to be paid extra and above the training fee as training. **PAN Card No.** AAATT3439Q. **GST No: 36AAATT3439Q1ZV, HS No.: 999293** (under commercial training or coaching services – clause 65(105) (ZZC) of Finance act – 1994).

Programme fee is to be paid in in favour of **"THE INSTITUTION OF ENGINEERS (INDIA) – ENGINEERING STAFF COLLEGE OF INDIA"** in the form of demand draft payable at Hyderabad. Alternatively the payment may be made by **Electronic Fund Transfer (EFT)** to ESCI – **SB A/c No. 10007111201 with The SBI,** PBB, Rajbhavan Road Branch, Khairatabad, Hyderabad-500004 by **NEFT/ RTGS. IFSC Code No. SBIN 0004159 – MICR No.500002075. PAN Card No AAATT3439Q; GSTIN No. 36AAATT3439Q1ZV**. While using EFT method of payment, please ensure to communicate us your company name, Contact details, our invoice reference and programme title. **Kindly provide your organization GSTIN No. along with your nominations**

Registration

Online registration shall be available on ESCI **web portal** : www.esciupskill.org. / www.escihyd.org

To register manually please send your nominations giving details of name, designation, contact address, email address, mobile no, telephone and fax number of the participant along with the details of mode of payment of fee, addressed to: **Course Director**

A Certificate of participation will be awarded to each participant on conclusion of the programme.