Engineering Staff College of India

Autonomous Organ of The Institution of Engineers (India)

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

ENVIRONMENT MANAGEMENT DIVISION

Continuing Professional Development Programme on

Air Pollution Monitoring and Modeling using Software Applications – Theory and Practicals

05 – 07 November, 2019

(An ISO 9001:2015 Certified, AICTE & CEA Recognized Institution)

Centre for Promotion of Professional Execellence

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.

OBJECTIVE:

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 with audio visual aid; Chalk & Talk sessions, case studies, debates, sharing of experiences, group discussions etc. All the sessions will be interactive, demanding active participation from all the participants.

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.

FACULTY:

Apart from core internal faculty, experts from industry, consulting firms, government organizations, academic and research institutions will share the sessions. They include

- High profile professionals at national level, Experienced field Data Analyst, Air Pollution Monitoring experts
- Environmental professionals, Committee members of regulatory boards
- Subject specialists.

PROGRAMME VENUE, DATES & TIMINGS:

VENUE:

Engineering Staff College of India (ESCI) Campus, Old Bombay Road, Gachi Bowli, Hyderabad. 500032. Telangana, India.

DATES:

05 – 07 November, 2019

Timings:

On the first day, Registration will commence at 0900 hrs. On all other days, the programme timings will be from 0945 - 1715 hrs with breaks in between for tea and lunch.

COURSE DIRECTOR

Dr. M. Subha
Sr. Faculty & Head I/c
Environment Management Division, ESCI

COURSE FEE:

Rs. 20,000/- (Rupees Twenty Thousand only) Residential Fee 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.

DISCOUNTS

- **Non-Residential Fee**- 10% discount on course fee is allowed for non-residential participants.
- **Group Discount:** Additional 10% discount for three or more participants, if sponsored by the same organization.

GST @ 18% is to be paid extra over and above the training fee.

Programme fee is to be paid in favour of **"IE(I)-Engineering Staff College of India"** in the form of demand draft payable at Hyderabad.

Kindly provide your organization GSTIN No. along with your nominations.

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. While using EFT method of payment, please ensure to communicate us your company name, our invoice reference and programme title.

Online registration shall be available on ESCI website. To register manually, please send your nominations giving details of name, designation, contact address, email address, mobile nos, telephone and fax number of the participant along with the details of payment of fee, addressed to:

Dr. M. Subha
Sr. Faculty & Head I/c
Environment Management Division,
Engineering Staff College of India,
Old Bombay Road, Gachi Bowli, Hyderabad 500 032
Phone: Direct 040 6630 4120 to 4122 Fax : 040-23000336
Email : em@escihyd.org/esci_emd@yahoo.co.in

CERTIFICATE:

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

GENERAL INFORMATION:

- ESCI encourages participants to present case studies from their respective organizations.
- For the convenience of outstation participants, ESCI will facilitate pick-up and drop from Airport / Railway Stations / Bus Stations, if travel plans are received atleast 3 days in advance along with mobile number by fax or email. The charges shall be paid by the participant directly to the Cab.
- ESCI provides complimentary accommodation and boarding to the participants one day before commencement (Check-in 1200 h) and one day after conclusion (Check-out 1200 h) of the programme duration. Overstay charges will be applicable as per ESCI rules (subject to availability of accommodation)
- Well developed Information Centre and Internet facilities are available to the participants.