SCHOOL OF SUSTAINABLE URBANIZATION & AIR POLLUTION
AAETI

PARTICIPANTS WILL BE AWARDED A CERTIFICATE OF PARTICIPATION ON COMPLETION OF THE COURSE

ONLINE TRAINING COURSE

ADDRESSING AIR QUALITY DATA ANALYTICS AND POLLUTION SOURCE ASSESSMENT FOR BETTER AIR QUALITY MANAGEMENT

COURSE DATES: AUGUST 31-SEPTEMBER 11, 2025

Air quality monitoring, data generation and analytics are critical steps for better air quality management in urban centres. Air quality data analysis, pollution source assessment complemented by public health linkages provide crucial evidence in understanding and identifying key air pollutants, their contribution to hotspot area identification and assessment and formulating source-specific intervention strategies for air pollution mitigation.

New approaches and techniques such as advanced instrumentations, real-time monitoring, low-cost and cost-effective monitoring and methods, satellite-based air quality monitoring, real-time source apportionment and integrated and dynamic emission inventory are emerging globally.

This online training course represents our initiative to promote good regulatory practices, enhance knowledge and build capacity on understanding air quality monitoring data analytics and pollution source assessment and deepen understanding within the larger context of air pollution mitigation.

This course is designed for a diverse set of stakeholders including government officials, practitioners, professionals, consultants, academics, researchers, students etc to understand and build knowledge and insights into the imperative of air quality data and analytics and its linkages to strategies and interventions within the air quality management perspective.

COURSE STRUCTURE

This online training course will be conducted on the Moodle and Zoom platforms through a variety of tools such as recorded video lectures, classroom exercises, reading materials and resources, audio/visual methods including short films and interviews, and interactions with key experts. The programme will cover the following:

MODULE 1: Understanding air quality data for better air quality management

MODULE 2: Strengthening air quality monitoring

MODULE 3: Understanding air quality index and health implications

MODULE 4: Air quality data analytics

MODULE 5: New air quality monitoring and assessment approaches including satellite-based monitoring, remote sensing

MODULE 6: Understanding air pollution sources, source apportionment, dynamic and integrated emission inventory

MODULE 7: Air quality forecasting

MODULE 8: Advance data analysis technique using AI

WHO CAN APPLY?

- Government officials from departments involved with air quality monitoring and management
- Professionals, consultants and practitioners helping with strategy development in cities
- NGOs and civil society groups involved in air pollution sensitisation, outreach and communications
- Academicians and researchers
- Students aiming to enrich curriculum and shaping careers in this sector
- Media persons writing on air pollution issue

COURSE FEE

Rs 3,500 FOR INDIAN PARTICIPANTS | **US $100** FOR INTERNATIONAL PARTICIPANTS

FOR MORE INFORMATION, PLEASE CONTACT

SHUBHANSH TIWARI
Mobile: +91-8448337484
Email: shubhansh.tiwari@cseindia.org

PRIYANKA CHANDOLA
Mobile: +91 – 9810414938
Email: priyanka@cseindia.org

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