New approaches to air quality data analytics and pollution source assessment for better air quality management

Course dates: 17 Sept - 30 Sept, 2021
Course fee: Rs 3,500 for Indian participants
US $100 for International participants

Air quality monitoring, data generation and analytics is a critical step towards air quality management in cities. Air quality data analytics and pollution source assessment complemented by public health linkages provide crucial evidence in understanding and identifying key air pollution sources, their contribution, hotspot area identification and assessment and formulating source-specific intervention strategies for air pollution mitigation. New approaches and techniques such as advance instruments and satellite-based air quality monitoring, advance source apportionment and integrated emission inventory are emerging globally. Therefore air quality data and analytics understanding, knowledge and skills is imperative to assess source contribution and designing mitigation strategies. 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 fortnight long course is designed for the regulators, practitioners, professionals, academics 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.

This online training course will be conducted on the Moodle and Zoom platform 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 Air quality monitoring
Module 3 Understanding air quality index
Module 4 Air quality data analytics
Module 5 New air quality monitoring approaches
Module 6 Air quality forecasting
Module 7 Air pollution source assessment
Module 8 Understanding source apportionment and integrated emission inventory
Module 9 Source identification and assessment
Module 10 Regulatory framework for air quality management

Who can apply
- Government officials from departments involved with air quality monitoring and management
- Professionals 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

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