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

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 fortnight long course is designed for the 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 dates:** July 1-14, 2024

**Course fee:** ₹3,500 for Indian participants
US$100 for International participants

**COURSE STRUCTURE**

- **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
- **Module 6:** Air quality forecasting
- **Module 7:** Air pollution sources identification and assessment
- **Module 8:** Understanding source apportionment and dynamic and integrated emission inventory
- **Module 9:** Regulatory framework for air quality management

**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

**FOR MORE INFORMATION, PLEASE CONTACT**

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