10th IICAQM WINTER SCHOOL ON AIR QUALITY MODELLING 2025

Venue: Indian Institute of Technology Delhi

Maintaining good air quality has become a crucial challenge, particularly in urban areas where pollution levels are often exacerbated by rapid industrialization, vehicular emissions, and other human activities. Air quality modelling helps predict and manage air pollution by identifying sources, tracking pollutant levels, and informing policy decisions. This enables effective strategies to mitigate air pollution's adverse effects on human health and the environment. By understanding air quality dynamics, policymakers can develop targeted interventions to reduce emissions and improve public health. Accurate air quality modelling also facilitates emergency response planning during pollution episodes. Furthermore, it supports urban planning and infrastructure development that prioritizes air quality. Effective air quality management ultimately contributes to sustainable development and environmental protection.

Registration link:

https://code.iitm.ac.in/code-programs/IICAQM2025_conf/

Register Now

Eligibility

Ph.D./M. Tech./M. Sc or Final year B.E./B. Tech. students from IITS/NITs/AICTE/UGC recognized colleges; Professionals working in Air Quality Management

15^{th} - 19^{th} Dec

Contact

CONFERENCE WEBSITE : https://iicaqm.in/

Conference Secretary: Prof. Joseph V. Puthussery

Secretary Email: josephvp@civil.iitd.ac.in

Alternate Email: iicaqmiitm@gmail.com

Contact Number: +916282369979 / 044-2257-5321

(a) Students from IITs/IISc/NITs/AICTE/UGC recognized colleges: **Registration fee is Rs. 12500/-** . Students must provide a bonafide certificate. Your registration will not be processed without payment. Accommodation will be provided only to students with valid Student ID.

(b) Participants from other organizations: Few seats are also available for participants from Industry. Government Departments, and Research Organizations. They have to pay **Rs. 25000/-** per candidate as registration fee. This amount is to be sent along with the application form. All payments should be made online.

Registration fee includes an electronic copy of the lecture handouts, IICAQM 2025 proceedings, and conference kit.

Module 1: Basis of Air Quality Management

1. Introduction to the principles and applications of air quality modelling, including the tools and methodologies.
2. Exploration of various air quality models, including urban, industrial, and rural settings.
3. Discussion on the essential Data Requirements and Input Parameters
4. Examination of Air Quality Management Strategies and policies

Module 2: Emission Inventory & Remote Sensing for Source Identification

1. Emission Inventory
2. Source Receptor Models
3. Remote Sensing in source identification

Module 3: Air Quality Modelling Approaches

1. Deterministic models for modeling
2. AI/ML models in Air Quality Management
3. Software demonstration of Air Quality Models

Module 4: Introduction to Sensors for air and noise pollution monitoring

1. Introduction to air, and noise pollution monitoring.
2. Sensors for Air Pollution Monitoring.
3. Sensors for Noise Pollution Monitoring.

Module 5: Pre-conference workshop

1. Overview of workshop objectives and expected outcomes
2. Hands-on sessions on data collection analysis, and interpretation related to pollution studies.
3. Interactive discussions on current challenges and innovative solutions in environmental pollution management
4. Preparation and guidance for presenting research findings at the upcoming conference.

JOINTLY ORGANIZED BY

KNOWLEDGE PARTNERS

IN ASSOCIATION WITH

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