



INDIAN  
INTERNATIONAL  
CONFERENCE  
ON AIR QUALITY  
MANAGEMENT

# 9TH IICAQM WINTER SCHOOL

on "Receptor modelling and sensor applications  
in air quality management"

# 2024

**Venue: Indian Institute of Technology, Madras**

In the face of rapid urbanization and industrial growth, maintaining air quality has emerged as a crucial challenge. "Air Quality Modelling and Management" is a field dedicated to understanding, predicting, and mitigating air pollution's impacts on public health and the environment. By leveraging advanced computational models, scientists can simulate the dispersion of pollutants and forecast air quality under various scenarios. This enables policymakers and urban planners to implement effective strategies to reduce emissions and improve air quality. Join us at our conference to explore the latest innovations, methodologies, and policies in air quality management, and collaborate with experts dedicated to creating healthier, sustainable urban environments.



**16 - 20 Dec**



## Register Now!

ELIGIBILITY: \_\_\_\_\_

Online Registration:  
<https://code.iitm.ac.in/code-programs/IICAQM2024/>

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

(a) Students from IITs/IISc/NITs/AICTE/UGC recognized colleges: Registration fee is Rs. 7500/-.

(b) Participants from other organizations: Few seats are also available for participants from Industry, Government Departments, and Research Organizations. They have to pay Rs. 15,000/- 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 2024 proceedings, and conference kit. Students must provide a bonafide certificate. Your registration will not be processed without payment.

### Module 1: Introduction to air quality modelling and 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: Air quality exposure assessment using wearable technology

1. Introduction to Wearable Technology for Air Quality Monitoring.
2. Types of Sensors and Their Applications in Air Quality Assessment.
3. Data Collection and Analysis Techniques Using Wearable Devices.
4. Challenges and Opportunities in Using Wearable Technology for Air Quality Monitoring.

### Module 3: Receptor modelling for personal exposure

1. Introduction to Receptor Modelling
2. Types of Receptor Models
3. Application of Receptor Models in Air Pollution Studies
4. Limitations and Challenges in Receptor Modelling

Group Discussion: Evaluation of the effectiveness of receptor models in assessing personal exposure to air pollutants.

### Module 4: Demonstration of Air, Noise & Water pollution monitoring

1. Introduction to air, noise, and water pollution monitoring techniques.
2. Air Pollution Monitoring Equipment.
3. Noise Pollution Monitoring Tools.
4. Water Pollution Monitoring Methods.

### 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:



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