

11th IICAQM WINTER SCHOOL ON AI for Air Quality Management 2026



About 11th IICAQM Winter School

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.



**Venue: Indian Institute of
Technology Madras**

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**



14th - 18th Dec



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E-mail
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Module 1: Fundamentals and Measurement of Urban Air Quality

- Urban Air Quality: Processes, Phenomena and Key Pollutants.
- Air Pollution Meteorology.
- Urban Air Quality Management: Principles, Concepts and Applications.
- Measurement Techniques for Air Quality Management.

Module 2: Introduction to Air Quality Modelling

- Introduction to Air Quality Modelling Approaches.
- Types of Air Quality Models and Their Uses.
- Environment and Human Health Risk Assessment.

Module 3: Air Quality Modelling Applications and Case Studies

- Receptor Modelling and Source Apportionment for Urban Air Quality Management.
- Modelling Applications in Urban Air Quality Management.
- Modelling of Air Emissions from Area Sources.
- Urban Air Pollution Modelling Case Studies.

Module 4: Tutorials and Hands-on Training

- AI/ML models in Air Quality Management.
- Introduction to noise pollution and its monitoring techniques.
- Hands-on Training on Air Quality Data Analysis and Modelling Tools.

Module 5: Pre-conference workshop

- Pre-Conference workshop on 'Scientific writing: Hints and tips'

Note :

(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 2026 proceedings, and conference kit.

Contact Person

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