## WINTER SCHOOL ON RECEPTOR MODELLING AND SENSOR APPLICATIONS IN AIR QUALITY MANAGEMENT

Monday, 16th December 2024			
Venue			
Vishweshwaraya Seminar Hall (BSB 368),			
Department of Civil Engineering,			
Indian Institute of Technology Madras			
08:30 - 9:00	Registration & Orientation		
	Inaugural address		
09:00-09:30	Welcome address: Dr. Tanushree Parsai, IIT Madras Course overveiw: Prof. Shiva Nagendra S M, IIT Madras & Prof. Uwe Schlink, Helmholtz Centre for Environmental Research - UFZ, Germany Inaugural address: Prof. Benny Raphael, Head, Department of Civil Engineering, IIT Madras		
09:30-09:45	Introduction of the Participants		
Module 1: Introduction to air quality monitoring and modelling			
09:45-10:30	Basics of air pollution, current challenges and opportunities	Prof. Shiva Nagendra S M,	
	(Online)	IIT Madras	
10:30-11:15	Measurement of gaseous pollutants and particulate matter in	Prof. R Ravi Krishna,	
	ambient air	IIT Madras	
11:15-11:30	Break		
11:30-12:15	India's policy landscape for combating air pollution	Prof. Mukesh Khare,	
	(Online)	IIT Delhi	
12:15-13:00	Regional climate modelling and air quality	Dr. Chandan Sarangi,	
		IIT Madras	
13:00-14:00	Lunch	Break	
Module 2: Air quality exposure assessment using wearable technology			
14:00-14:45	Introduction to wearable technology for air quality monitoring	Prof. Uwe Schlink, Helmholtz Centre for Environmental Research - UFZ, Germany	
	Data collection and analysis techniques using wearable devices	Prof. Uwe Schlink,	
14:45-15:30		Helmholtz Centre for Environmental Research - UFZ, Germany	
15:30-15:45	Break		
15:45-16:30	Leveraging R for air quality management and analysis	Dr. Aswin Giri,	
		IIT Madras	
16:30-17:15	Introduction to noise pollution and its monitoring techniques	Ms. Lakshmi Pradeep,	
		IIT Madras	
17:15-18:00	Networking & research opportunities at IIT Madras		

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Module 3: Receptor modelling for personal exposure and health risk assessment				
09:00-09:45	Introduction to receptor modelling	Prof. Shiva Nagendra S M, IIT Madras		
09:45-10:30	Types of receptor models & its application in air pollution studies	Prof. Uwe Schlink, Helmholtz Centre for Environmental Research - UFZ, Germany		
10:30-11:15	Air pollution: From sampling to analysis	Dr. Arul Veerappan, NYU Langone Health		
11:15-11:30	Break			
11:30-12:15	Forest fires and public health: Understanding the risks and consequences	Dr. Tanushree Parsai, IIT Madras		
12:15-13:00	Group Discussion  Air pollution monitoring, source identification, exposure and health risk assessment			
13:00-14:00	Lunch Break			
Module 4: Demonstration of Air & Noise pollution monitoring				
14:00-15:30	Demonstration of air and noise monitoring instruments	Dr. Senthilkumar, TNPCB Ms. Chaithra S, Mr. Vijayakumar, Dr. Ezhilkumar, Mr. Debabrat Biswal, Ms. Lakshmi Pradeep, Dr. Aswin Giri IIT Madras		
15:30-15:45	Break			
Module 5: Pre-conference workshop				
15:45-17:30	Pre-Conference workshop on 'Scientific writing: Hints and tips'	Ms. Neha Sharma, Springer		
17:30-18:00	Networking & research opportunities at Organising Institutes			