

# Training and Knowledge Series on Sustainable Buildings

## WEBINAR: Natural Ventilation in Built Environment

7-10 October 2020, 3:00 pm to 5:00 pm on all days

TENTATIVE AGENDA FOR WEBINAR: NATURAL VENTILATION IN BUILT ENVIRONMENT			
DAY	TIME	DURATION (Minutes)	TOPIC
<b>TECHNICAL SESSIONS</b>			
7 October 2020	<b>Welcome note &amp; Introduction</b>		
	3:00pm - 3:05pm	5	Welcome Note from Mr Sanjay Seth
	3:05pm - 3:10pm	5	Introduction to the Webinar Series, Know your Instructors & Peers
	<b>DAY 1: Concepts of Airflow and Natural Ventilation</b>		
	3:10pm - 3:55pm	45	<b>Concepts of Airflow at Site and Building Level</b> Introduction to the basics of airflow and natural ventilation, and its relation to the built environment.
	3:55pm - 4:00pm	5	Quiz
	4:00pm - 4:10pm	10	Break
	4:10pm - 4:55pm	45	<b>Analysing Airflow: Natural Ventilation &amp; relation to thermal comfort</b> Understanding on how natural ventilation influences the thermal environment.
	4:55pm - 5:00pm	5	Quiz
5:00pm - 5:10pm	10	Q&A	
8 October 2020	<b>DAY 2: Empirical Analysis and Case Studies of Natural Ventilation</b>		
	3:00pm - 3:50pm	50	<b>Air flow analysis using empirical method</b> Thumbrules and air flow analysis using empirical calculations.
	3:50pm - 3:55pm	5	Quiz
	3:55pm - 4:05pm	10	Break
	4:05pm - 4:50pm	45	<b>Case Studies</b> Compilation of case studies for an understanding of how air flow analysis is helpful in realtime projects.
	4:50pm - 5:00pm	10	Q&A
<b>SOFTWARE SESSIONS</b>			
9 October 2020	<b>Introduction to the Software Sessions</b>		
	<b>DAY 3: IESVE tool for CFD Simulation</b>		
	3:00pm - 3:45pm	45	<b>Introduction to IESVE</b> Overview of the interface and geometry modeling in IESVE.
	3:45pm - 3:55pm	10	Q&A
	3:55pm - 4:05pm	10	Break
	4:05pm - 4:45pm	40	<b>Geometry Modeling in IESVE</b> Demonstration of ModelIT module for geometry modeling in IESVE.
	4:45pm - 4:50pm	5	Exercise briefing
	4:50pm - 5:00pm	10	Q&A
10 October 2020	<b>DAY 4: IESVE tool for CFD Simulation</b>		
	3:00pm - 3:45pm	45	<b>External Airflow Simulation</b> Demonstration of performing site level wind analysis to assess the impacts of surrounding structures in MicroFlo in IESVE.
	3:45pm - 3:55pm	10	Q&A
	3:55pm - 4:05pm	10	Break
	4:05pm - 4:45pm	40	<b>Internal Airflow Simulation</b> Demonstration of performing internal wind analysis to assess the wind circulation within a building using MacroFlo and MicroFlo in IESVE.
	4:45pm - 4:50pm	5	Exercise briefing
	4:50pm - 5:00pm	10	Q&A
	<b>Vote of Thanks</b>		