

Program Overview

05 Days
Hands-on Exercises
Software Training
Field Measurements
Climate Data Simulations
Heat Action Planning

Capacity Development Program Team

Coordinators

Dr. Anurag Bagade
Assistant Professor, SPA Vijayawada
(Principal Instructor)

Mr. Rajeev R
Assistant Professor, SPA Vijayawada
(Co-Principal Instructor)

Patrons

Prof. Dr. Ramesh Srikonda
Director, SPA Vijayawada

Prof. Dr. Ayon K Tarafdar
Head, A-CUPCB-SPAV

For further details, contact:
Dr. Anurag Bagade
Ph. No. +91 98607 02323
Mail: anuragbagade@spav.ac.in



Organized by



योजना तथा वास्तुकला विद्यालय, विजयवाड़ा
School of Planning and Architecture, Vijayawada
An Institute of National Importance, Ministry of Education, Govt. of India
acupcb.spav.ac.in

Capacity Development Program

Climate Actions for Local Area Planning: Combating Heat Extremes

**06-10
February 2025**



AMRUT Centre of Urban Planning
for Capacity Building
A-CUPCB-SPAV



SCAN HERE
Registration Deadline: 3 Feb 2025

About the Program

Today, more than half of the world's population lives in urban areas, and this figure is projected to reach 60% by 2030. Cities are expanding both horizontally and vertically to cope with the pressures of rising populations and the growing gap between the demand for and supply of resources. Consequently, natural landscapes are increasingly being converted into artificial surfaces, which has been shown to exacerbate climate-related challenges. Heatwaves and the urban heat island effect are among the most commonly observed issues in Indian cities today. While some cities have heat action plans in place, more localized actions are essential to effectively mitigate and adapt to these extreme scenarios.

This capacity-building and skill enhancement program aligns with Sustainable Development Goal (SDG) 11—Sustainable Cities and Communities—and SDG 13—Climate Action. It enables participants with hands-on expertise on tools and techniques necessary to develop scientific understanding, technical assessment, support decision-making, and the implementation of localized strategies for combatting heat related challenges. Participants will develop skills in measuring urban climate parameters, mapping local climate zones, conducting vulnerability assessments, simulating micro-climates, and preparing localized heat action plans. By incorporating project appraisal techniques and exploring climate finance mechanisms, this program provides a comprehensive framework for addressing the complex challenges of climate change in urban areas, promoting sustainable, resilient, and climate-sensitive development.

Who Should Attend

The training session is designed for Planners, Government officials, Urban local bodies, Policy-makers, Environmental engineers, Disaster management professionals, Non-governmental organizations (NGOs), Academics and researchers in the field of urban climate and planning.

Outcomes

- Applied understanding on climate measuring tools
- GIS based spatial representation of land surface temperature
- Preparation of local climate zone maps
- Modelling and interpreting urban micro-climates
- Developing localised heat action plan
- Project planning and development



Program Structure

Day 01

Introduction to Urban Climate and Heat Extremes

- Human Settlement and Climate Change
- Urban Heat Island Effect
- Local Climate Zones

Day 02

Assessments and Site Evaluations

- Outdoor Thermal Comfort
- Vulnerability Assessment
- Measuring and Monitoring

Day 03

Micro-Climate Simulations

- Insights into Micro-climate Simulations
- Model Drafting and Simulation
- Scenario Development and Analysis
- Visualization of Output and Case Representation

Day 04

Developing Localised Heat Action Plans

- Mitigation and Adaptation Scenario Building
- Framework for Preparing HAPs
- Simulating Urban Micro-Climate

Day 05

Institutionalizing Climate Actions

- Plan/Project Appraisal
- Climate Finance Mechanism