

***Five day  
Capacity Building and Skill  
Enhancement Program***

on

**Climate Resilience  
through Simulation of  
Urban Environments -  
Hands-on Training on Tools  
and Techniques**

**17/02/2025 - 21/02/2025**

organized by

**AMRUT Centre of Urban  
Planning for Capacity Building**

**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](http://acupcb.spav.ac.in)

## ABOUT SPA VIJAYAWADA

The School of Planning & Architecture, Vijayawada (SPAV), has been established as an autonomous Institution of National Importance (by the Ministry of Education, Government of India) under an Act of the Parliament of India. SPAV offers education in the fields of Planning and Architecture. The School has distinguished itself and has grown as a role model in the professional education, offering undergraduate, post graduate and doctoral programmes in the fields of planning and architecture, while at the same time fostering quality research in these domains.

SPA Vijayawada is ranked one of the best technical institutes in the country. The campus is green rated and is equipped with state-of-the-art infrastructure such as hostels, central library, ICT enabled teaching atmosphere, high end digital surveillance systems, modern laboratories, spacious studios, classrooms, open air theatres, auditorium, cafeteria, outdoor sports facilities, etc. SPAV is a leading Institution in terms of Innovation, use of latest computing platforms, state of the art labs and a pedagogy that encourages critical thinking.

## ABOUT A-CUPCB-SPAV

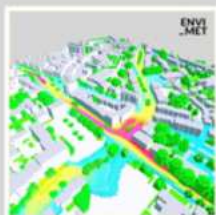
The AMRUT Division of Ministry of Housing and Urban Affairs (MoHUA, Government of India) has recognized School of Planning and Architecture Vijayawada as one of the few centers in the country, that shall undertake top-notch, cutting-edge research, projects, and training in the field of urban planning and climate sensitive development. This Centre is a hallmark of SPAV's capability, resources and potential in leading the path of research and advocacy in the domain of Urban Planning in India.

The A-CUPCB-SPAV center will serve as a nodal center to provide advocacy, research innovations and advice related to urban planning and design. The five main functions / activities of the A-CUPCB are Capacity Building, Research Projects, Spatial Data Infrastructure, Government Advocacy, and Industry Advisory. The A-CUPCB-SPAV shall endeavor to leverage and delve deep into "Climate Resilient Urban Planning and Design: A Focus on Coastal Vulnerability" through its functions and activities. Through each of its functions, it shall bring out new innovations, solutions and tools that can be useful for planners, settlement designers and architects, who work in the local bodies or engage with local bodies.

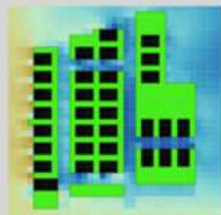
## ABOUT THE PROGRAM

With rapid urbanization, urban systems are becoming increasingly complex making the planning and design of urban built environment more challenging. A combination of buildings, man-made materials, vegetation, urban parks and linkages to the rural surroundings are part of this complexity. Scarce resources and climate change add further challenges to the urban planning decision-making process. Hence, critically evaluating the alternate planning and design solutions at various scales are vital for developing optimum solutions.

Urban simulation models, such as **ENVI-met**, enable the assessment of climate-adaptive solutions. This 3D microclimate modeling software supports interdisciplinary analysis of urban dynamics, including solar effects, green infrastructure, wind flow, thermal comfort, and pollutant dispersion. Hands-on training with ENVI-met empowers professionals like architects and planners to simulate urban changes and design sustainable, climate-resilient solutions aligned with Sustainable Development Goal 11.



source: envimet.com



## MODULES OF TRAINING

### Day 1: 17.02.2025

- Session 1: Introduction, Overview of ENVI-met, Basic concepts and usage
- Session 2: Exploring ENVI-Headquarters - Hands-on sessions

### Day 2: 18.02.2025

- Session 1: ENVI-met spaces and ENVI-met guide
- Session 2: Creating environments and work spaces - Hands-on sessions

### Day 3: 19.02.2025

- Session 1: Database manager tools, Albero, Monde, Project Manager
- Session 2: Digitization of blocks in spaces - Hands-on sessions

### Day 4: 20.02.2025

- Session 1: Running Simulation with small blocks and vegetation
- Session 2: Visualization with Leonardo and Bio-met

### Day 5: 21.02.2025

- Session 1: Results and data extrapolation, troubleshooting
- Session 2: Presentation by Participants & Discussion

### WHO CAN ATTEND

Faculty members and research scholars from architecture, planning, engineering, geography and allied fields, participants from private/government organizations, practicing architects and planners.

### REGISTRATION DETAILS

For registration, fees, more details, visit



Last date of Registration

**12-02-2025**

[https://acupcb.spav.ac.in/capacity-building/cbp\\_24\\_02/](https://acupcb.spav.ac.in/capacity-building/cbp_24_02/)

Accommodation will be provided on request

## CAPACITY BUILDING AND SKILL ENHANCEMENT PROGRAM TEAM

### PATRONS

**Prof. Dr. Ramesh Srikonda**  
Director, SPA Vijayawada

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

### Coordinators

**Dr. Lilly Rose A**  
Principal Trainer  
Associate Prof, Dept. of Architecture  
SPA Vijayawada  
Email: [lillyrose@spav.edu.in](mailto:lillyrose@spav.edu.in)

**Dr. Shanmuga Priya**  
Principal Co-Trainer  
Associate Prof, Dept. of Architecture  
SPA Vijayawada  
Email: [shanmugapriya@spav.edu.in](mailto:shanmugapriya@spav.edu.in)

**Ar. Deepthi Varghese**  
Trainer  
Asisstant Prof, Dept. of Architecture  
SPA Vijayawada  
Email: [deepthi.varghese@spav.edu.in](mailto:deepthi.varghese@spav.edu.in)

For further details, contact:  
Ar. Deepthi Varghese  
Ph. No. +91 9505662165