

Program Overview

06 Days
Workshops & Labs
GIS and Mapping Training
Field Demonstrations
Drainage & Cooling Design
Exercises
R³ Action Planning



SCAN HERE
Registration Deadline: 9 Nov 2025

For Registration & Fee Details

Program Team

Coordinators

Prof. Dr. Ramesh Srikonda
Professor & Director, SPA Vijayawada
(Principal Investigator – PI)

Dr. Prashanti Rao
Assistant Professor, SPA Vijayawada
(Co-Principal Investigator – Co-PI)

Dr. Faiz Ahmed Ch
Assistant Professor, SPA Vijayawada
(Co-Principal Investigator – Co-PI)

Mr. Rajeev R
Assistant Professor, SPA Vijayawada

Dr. Arpan Paul Singh
Faculty, SPA Vijayawada

External Experts

Dr. Santosh Pingale
NIH, Roorkee

Dr. Garima Agarwal
NIDM

Patrons

Prof. Dr. Ramesh Srikonda
Professor & Director, SPA Vijayawada

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



योजना तथा वास्तुकला विद्यालय, विजयवाड़ा
School of Planning and Architecture, Vijayawada
An Institute of National Importance, MHRD, Govt. of INDIA.

Capacity Building Program

BUILDING
COASTAL
DISASTER

RESILIENCE:

R³ Strategies for Flood and
Heat Stress

10-15
November 2025



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



About the Program

Coastal communities are among the most vulnerable to climate-induced disasters, particularly floods and extreme heat events. These hazards cause severe loss of life, damage to infrastructure, displacement of populations, and economic disruption. With climate change intensifying the frequency and severity of such disasters, proactive and integrated pre- and post-disaster strategies have become critical.

This 6-day Capacity Building Program on Pre-Post Disaster Management through R³ (Risk Reduction, Assessment, Mapping) is designed to bridge these gaps. The program equips participants with tools, techniques, and frameworks to identify risks, strengthen preparedness, and implement localized action plans.

Beyond immediate disaster management, the program fosters long-term resilience and sustainable coastal development, aligned with the Sustainable Development Goals (SDG 11 – Sustainable Cities & Communities, and SDG 13 – Climate Action). It also supports policy development, governance strengthening, and climate adaptation pathways to safeguard urban populations in coastal regions.

Participants will engage in lectures, software training, field visits, and applied simulations that combine theoretical knowledge with hands-on experience, ensuring both practical skills and a deeper understanding of resilience planning.

Who Should Attend

The program is designed for Students, Urban Local Body officials, planners, engineers, architects, disaster managers, academics, NGOs, and community leaders engaged in climate adaptation and coastal resilience.

Outcomes

- Applied understanding of R³ framework
- GIS-based hazard & vulnerability mapping
- Drainage and cooling design exercises
- Development of localized resilience strategies
- Pilot project concepts for flood & heat stress
- Action planning and decision-support tools



Program Structure

DAY 1	Foundations: Understanding Coastal Systems & Risks Inaugural & Welcome Session Importance of Coasts and Coastal Communities Coastal Hazards & Climate Change: Implications for India Need for Flood Resilience in Coastal Areas of AP Risk & Resilience Frameworks Case Study Workshop / Discussions
	Tools & Mapping for Risk Understanding Exposure Mapping for Coastal Flood Risk Vulnerability Mapping of Coastal Systems Hands-on: Rapid Flood Risk Assessment Methods Flood Modelling Approaches & Applications
	Field Visit Field Visit & Risk Assessment of Case Area Group Reflection & Discussion: Connecting Field Observations to Frameworks
	Readiness, Response, and Recovery (R3) Coastal Flood Risk: Frameworks and Indicators Expert Session: Mitigation & Adaptation Group Presentations by Participants
	Heat Index – Concepts and Measurement Introduction to Heat Index & Urban Heat Stress Manual Heat Index Calculation using Datasets Instruments: AWS, Temperature, Humidity, Air Velocity Probe Field Walk & Microclimate Spot Survey Mapping Heat Stress Zones
DAY 6	Heat Index – Application and Planning Planning & Design Strategies for Heat Mitigation Field Walk & Microclimate Spot Survey Mapping Heat Stress Zones on Site Maps