About SPAV

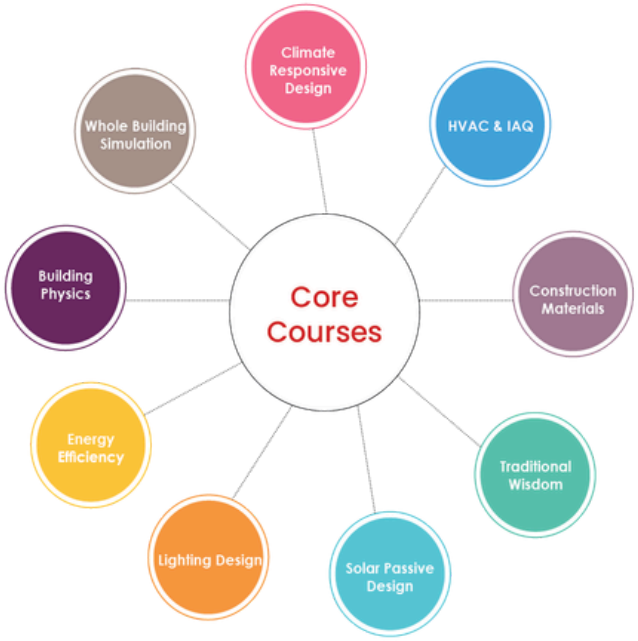
At SPAV, the academic focus and approach is a unique blend of design, creativity and objectivity with a social purpose. Students not only learn the skills required, but during the course of studies are exposed to thought-provoking and intellectually inspiring sessions, through studios, field trips and research projects, which brings out the creative best in them.

Prof. Dr. Ramesh Srikonda
Director SPA, Vijayawada

TOP EMPLOYERS

teri · IGBC · Gensler · McDBERL · TU Delft · CEPT UNIVERSITY

The Sustainable Architecture program is designed to equip students with the knowledge and skills to integrate ecological principles into architectural practice, focusing on energy efficiency, sustainable materials, passive design strategies, and climate-responsive architecture. A curriculum allied with use of Climatology Lab , Environmental Monitoring Lab and Environmental Simulation Lab has been developed.



SCHOOL OF PLANNING AND ARCHITECTURE,VIJAYAWADA

M. Arch in Sustainable Architecture

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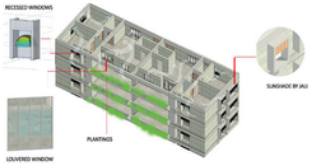
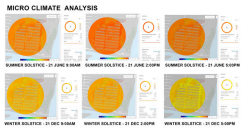
MODULES

Semester 1

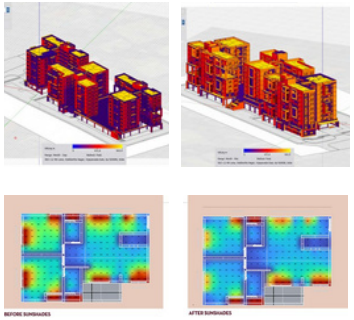


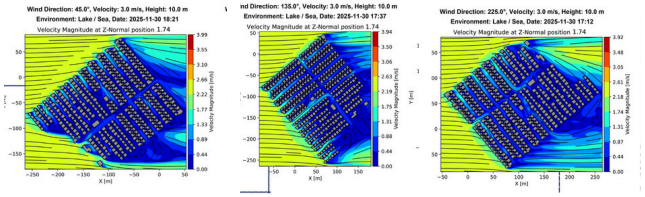


Design Studio-I offers an in-depth exploration of climate elements and introduces 'Simple Passive Design Strategies', guiding students toward integrating passive design techniques into the architecture of a selected building typology within a specific climate zone.

Semester 2

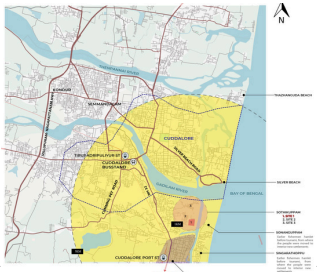
Design Studio - II focuses on creating sustainable workspaces through advanced passive design strategies by analyzing climate at both micro and macro levels and quantifying the resulting energy requirements of the design.





Semester 3

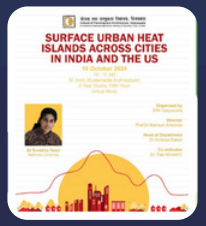
This design studio simulates housing in three LCZs using Environmental simulation tools to test strategies—albedo, vegetation, shading, street canyons, window-to-wall ratios, and roof types—to mitigate the Urban Heat Island effect and guide climate-responsive design and policy.



Semester 4

Thesis
Elective IV
Building Information Modelling and Management

WORKSHOPS & GUEST LECTURES



INDUSTRIAL VISITS

HIGHLIGHTS

Core Skills

Research and Analysis The course fosters research-based studies and design, encouraging students to interpret findings critically and develop strong analytical thinking skills. **Industry-Relevant Software Expertise** Students engage with industry-approved software, applying them to design exploration and research analysis throughout the course. **Green Building Rating Accreditations** Driven by a strong interest in sustainability, students are supported in earning certifications such as IGBC- AP, GRIHA, and LEED-GA.

Labs

CLIMATOLOGY
WIND TUNNEL
GEOINFORMATICS
ENVIRONMENTAL MONITORING

Core Faculty

Head of Department, Architecture
Prof. Dr. Amitava Sarkar

Programme Co-ordinator
Prof. Dr. Janmejoy Gupta

Core Faculty
Prof. Dr. Iyer Vijayalaxmi Kasinath
Prof. Dr. Lilly Rose A
Prof. Dr. Janmejoy Gupta
Prof. Dr. Amitava Sarkar
Dr. Nagaraju Kaja
Dr. Faiz Ahmed C
Mr. Karthik Chadalavada
Mr. Vijesh Kumar V

Software Skills

Simulation Tools
Rhino 3D, Ladybug tools
IES-ve
DIALux
Energy Pkus
Design Builder
ENVI-met
Urban Weather Generator
One Click LCA

Geospatial Tools
ArcGIS
QGIS

Programming Skills
Python

Architectural Tools
AutoCAD
Rhino
Revit
Sketchup
V-ray
Lumion
Enscape

Presentation Tools
Adobe Suite
MS Suite