

## 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.

## PLACEMENTS

### Domains we fit in



BUILDING PHYSICS



DECARBONIZATION AND WHOLE LIFE CYCLE



SMART MATERIALS AND ACCESSORIES



SIMPLE AND ADVANCED PASSIVE DESIGN



ENVIRONMENTAL CODES AND ENERGY RATINGS



ENERGY EFFICIENT LANDSCAPE



HVAC AND DAYLIGHTING



POST OCCUPANCY EVALUATION



RESEARCH AND ANALYTICS

### Industrial Recruiters



### Higher Education Recruiters



## SCHOOL OF PLANNING AND ARCHITECTURE, VIJAYAWADA



## M. Arch in Sustainable Architecture

## DEPARTMENT OF ARCHITECTURE

### Contact Us



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[www.spav.ac.in](http://www.spav.ac.in)



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**Prof. Dr. Ramesh Srikonda**

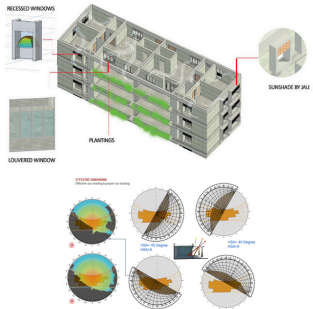
Director

SPA, Vijayawada



# MODULES

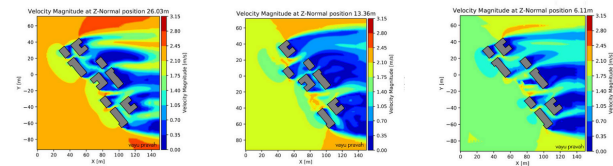
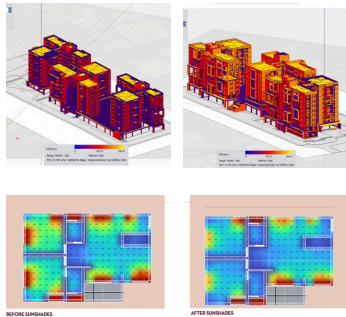
## Semester 1



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.

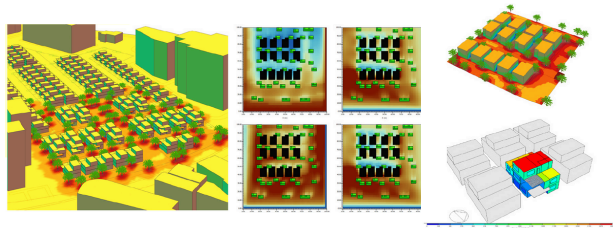
## Semester 2

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.

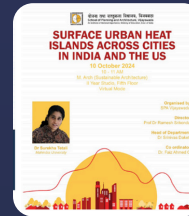


## Semester 3

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.



## 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.

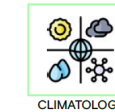
### Industry-Relevant Software Expertise

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



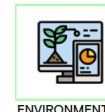
CLIMATOLOGY



WIND TUNNEL



GEOINFORMATICS



ENVIRONMENTAL MONITORING

## Core Faculty

### Programme Co-ordinator

Prof. Dr. Iyer Vijayalaxmi Kasinath

### Core Faculty

Prof. Dr. Iyer Vijayalaxmi Kasinath

Dr. Lilly Rose A

Dr. Janmejoy Gupta

Dr. Amitava Sarkar

Dr. Nagaraju Kaja

Dr. Faiz Ahmed C

Mr. Karthik Chadalavada

Mr. Vijesh Kumar V

## Software Skills



SIMULATION TOOLS



ARCHITECTURAL TOOLS



GEOSPATIAL TOOLS



PRESENTATION TOOLS



PROGRAMMING SKILLS



SIMULATION TOOLS



ARCHITECTURAL TOOLS



GEOSPATIAL TOOLS

Rhino 3D, Ladybug tools

IES-ve

DIALux

EnergyPlus

DesignBuilder

ENVI-met

Urban Weather Generator

One Click LCA

ArcGIS

QGIS

Python

AutoCAD

Rhino

Revit

Sketchup

V-ray

Lumion

Enscape

Adobe Suite

MS Suite