



MASTER OF SUSTAINABLE ARCHITECTURE



योजना तथा वास्तुकला विद्यालय, विजयवाड़ा
School of Planning and Architecture, Vijayawada
An Institute of National Importance, Ministry of Education Gov. of India

ABOUT SPAV

School of Planning and Architecture, Vijayawada, (SPAV), was established on July 7, 2008 by the Ministry of Education (erstwhile known as Ministry of Human Resource Development), Government of India, as an autonomous institution.

SPAV is one of the three institutes of national importance and is a premier Centrally Funded Technical Institution (CFTI) directly under the Ministry of Education, for excellence 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.

Presently the School has two departments -
Planning and Architecture.

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. At SPA Vijayawada, academic degree programmes are designed to address physical, socio-economic and environmental challenges, so as to achieve future sustenance and hence, to cater to the specific needs of the industry and academics. SPAV envisions "to achieve academic excellence in Architecture and Planning through innovating, creating, acquiring and disseminating knowledge using sustainable local and global practices and enhancing the quality of society through responsible built environment."



ADMISSIONS AT SPA VIJAYAWADA

PG Admissions at SPAV

The admission to PG programmes at SPAV is partly through CCMT (conducted by MoE, Govt of India) and partly Direct Admissions (conducted by SPAV). Admissions for all seats of M.Design programmes starting in AY 2024-25 shall be based on Direct Admissions (conducted by SPAV). The details of eligibility, admission process, seat matrix, and fees are given in <https://spav.ac.in/spavadmissions.html>.

UG Admissions at SPAV

The admission to all the seats of the Bachelor of Planning and Bachelor of Architecture courses is made on the basis of Central Seat Allocation Board (CSAB) and Joint Seat Allocation Authority (JOSAA), constituted by MoE, Govt of India. The students have to qualify the basic requirements as per CSAB and appear for JEE Mains Exams conducted by Govt of India. Admission of Foreign Nationals (FN) / Non-Resident Indians (NRI) and Person of Indian Origin (PIO) is made through DASA, a platform of admissions by the MoE, Govt of India. The details of eligibility, admission process, seat matrix, and fees are given in <https://spav.ac.in/spavadmissions.html>

MASTERS IN SUSTAINABLE ARCHITECTURE

The Masters in Sustainable Architecture establishes a strong connection between architecture, technology, and sustainability. The program integrates rigorous scientific research, exploring energy efficiency, traditional built environment wisdom, water, land, vegetation, and waste management for comprehensive sustainability.

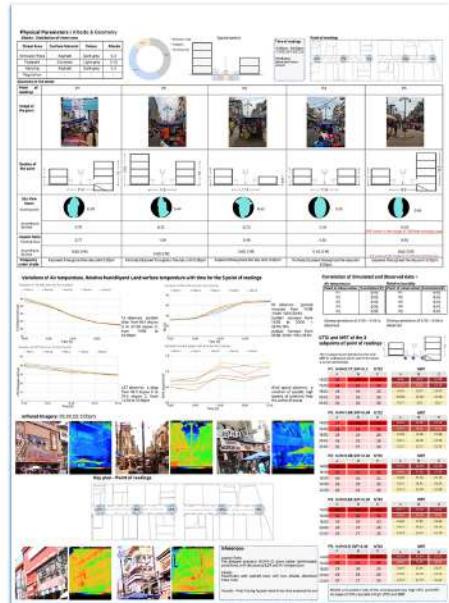
The curriculum combines sustainable design principles, materials, construction techniques, renewable energy systems, and green building codes. The program aims to cultivate skills, knowledge, and a profound understanding of environmental sustainability. It progresses from simple to advanced passive design strategies with a human-centered approach, exploring the relationship between humanity and the environment in the first two semesters. Further, in the third semester, the emphasis is on achieving thermal comfort and sustainability through whole building simulations. Students develop solutions for the sustainability of the built environment through collaborative, multi disciplinary research focussed thesis in the final semester.



MASTERS IN SUSTAINABLE ARCHITECTURE

SEMESTER I

Design Studio I
 (Simple Passive Strategies)
 Building Physics and Sustainability
 Appropriate Material and
 Construction Technique
 Daylighting and Lighting Design
 Environmental Codes and Energy
 Ratings
 Resource Conservation and
 Efficiency



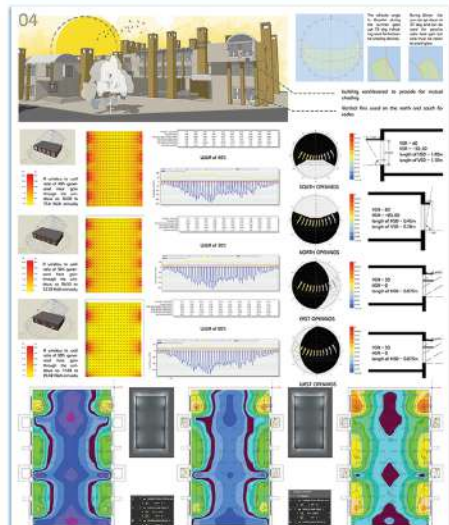
SEMESTER II

Design Studio II
 (Advance Passive Strategies)
 Solar Passive Design
 Smart Materials for Green Buildings
 HVAC & IAQ
 Research Methodology
 Electives-
 Waste Management
 Healthy Buildings



SEMESTER III

Design Studio III
 (Whole Building Simulation and
 Evaluation)
 People, Environment and Buildings
 Eco Sensitive Accessories and Green
 Materials
 Dissertation
 Traditional Wisdom and
 Sustainability Concepts
 Electives-
 BIM Based Construction
 Management
 Energy Efficient Landscape



SEMESTER IV

Thesis
 Project Management
 Electives-
 Energy Audit and EIA
 Post Occupancy Evaluation of
 Buildings

COURSE OUTCOMES

The program unfolds as a dynamic tapestry interweaving various disciplines, establishing a harmonious relationship among architecture, technology, landscape, ecology, and sustainability.

As students progress through the program, they undergo a transformative journey that culminates in their emergence as experts in the field, navigating the intricate nexus of technology, ecological considerations, and landscape dynamics.

ANALYTICAL SKILLS:

Students are well equipped with analysing the data, interpreting findings to communicate data-driven recommendations. The critical thinking skills enable them to evaluate environmental impacts and assess the viability of sustainable solutions.

SOFT SKILLS:

Training on effective communication, involving clear articulation of complex environmental concepts & adept written and verbal skills for reports and presentations are provided. Teamwork is encouraged for a collaborative approach, a navigating interdisciplinary dynamics and an effective contribution to projects.

CORE COMPETENCIES:

Thorough knowledge of building physics and research based design equips the student to interpret their findings and think analytically

SOFTWARE SKILLS:

Students are trained in softwares such as Design Builder, Envi-MET, DIALux, Velux, Butterfly, Ladybug, Rhino and Revit



STATE OF THE ART FACILITIES



The campus offers state of the art facilities. The Central Library is an integral part of an academic system whose primary function is not only to serve students, researchers, faculty and staff but also to create a conducive environment for education, research and innovation.

The campus has ICT enabled teaching atmosphere, high end digital surveillance systems, modern laboratories, spacious studios and classrooms, open-air theatres, auditorium, cafeteria, and outdoor sports facilities.

The various labs in the campus include Computer Labs, Geoinformatics Lab, Landscape Lab, Material Testing Lab, Surveying Lab, Model making & Carpentry Lab, Climatology Lab, Environmental Monitoring Lab and Structural Lab. In addition, there are several well-equipped seminar rooms, smart lecture rooms, discussion rooms, board room and exhibition hall. These spaces are constantly in use to display students works, conduct juries, have industry-academia interface meetings, have campus placements, and hold training programmes and research meets.

CAREER PROSPECTS

The program equips graduates with a comprehensive skill set, enabling them to adeptly address the escalating environmental challenges faced by both the building industry and the global ecosystem. Grounded in sustainability principles, the curriculum transcends traditional boundaries, cultivating a deep understanding of the inter connectedness between the built environment and the natural world.

A distinctive feature of the program is its focus on cultivating independent consultants capable of offering innovative and energy-efficient solutions. Graduates emerge as thought leaders and problem solvers, poised to catalyze positive change in the building industry. The program's forward-thinking approach positions students to actively contribute to creating a more sustainable future, emphasizing the importance of responsible design practices and environmentally conscious decision making.

Through internships, collaborations with sustainability firms, and real-world projects, students gain valuable experience and insights into the practical applications of sustainable design. This exposure not only enriches their learning experience but also ensures that graduates enter the workforce with a nuanced understanding of the challenges and opportunities within the field of sustainable architecture.

The program at SPAV nurtures a new generation of professionals who are well-versed in sustainable design and equipped to actively shape the future of the industry. Seamlessly blending academic rigor, practical experience, and a commitment to environmental stewardship, the program empowers graduates to embark on meaningful journeys as agents of positive change in the ever-evolving landscape of sustainable architecture and design; well-prepared for impactful careers, applying their expertise to real-world projects.

Past recruiters

ATKINS Deloitte. GMR



FHD
INDIA

LEAD

organo
THE ORG & BODILY TRADITION



CEPT
UNIVERSITY



LIFE AT SPA VIJAYAWADA

The permanent campus of SPA Vijayawada is at the heart of Vijayawada city at ITI road and is approximately 10 acres, which hosts a set of iconic buildings with award winning designs that evolved in an environment friendly campus master plan.

The campus accommodates the main iconic Academic and Administrative Block, the students residential blocks, and a dining cum guest house block.

The campus has ICT enabled teaching atmosphere, high end digital surveillance systems, modern laboratories, spacious studios and classrooms, open-air theatres, auditorium, cafeteria, and outdoor sports facilities.

The various labs in the campus include:

- Computer Labs,
- Geoinformatics Lab,
- Art Lab,
- Landscape Lab,
- Material Testing Lab,
- Surveying Lab,
- Model making & Carpentry Lab,
- Climatology Lab,
- Conservation Lab,
- Environmental Monitoring Lab,
- Structural Lab.

In addition, there are several well-equipped seminar rooms, smart lecture rooms, discussion rooms, board room and exhibition hall. These spaces are constantly in use to display student works, conduct juries, have industry-academia interface meetings, have campus placements, and hold training programmes and research meets. The campus has an additional 2.66 acres land with green cover, which is in the process of being developed as an outdoor sports facility. The school has initiated to open its library, laboratories, and social spaces on weekends, as per demand, to ITI, Polytechnic and other institute in the vicinity as a gesture of social responsibility towards the region. In SPAV, extra-curricular activities are important in campus life and there are ten cultural clubs, which contribute immensely to the vibrant campus. Each Club comprises of faculty coordinators and student committees guided by Secretary, Joint secretary, Coordinators, Co-Coordinator and volunteers. Clubs are as follows:-

1. Ritmo Club / Music
2. Tasveer Club / Photography
3. Monologue Club / Drama
4. Avante Garde Club / Fashion
5. Club-29 / Dance



Contact

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Faculty

<https://www.spav.ac.in/architecturefaculty.html>