

Karthik Chadalavada

B.Arch, M.Arch (Sustainable Architecture)

**Assistant Professor, Department of Architecture
School of Planning & Architecture: Vijayawada**

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Researcher Id: https://www.researchgate.net/profile/Karthik-Chadalavada?ev=hdr_xprf

Google Scholar Id: <https://scholar.google.co.in/citations?user=S7vnu3sAAAAJ&hl=en>

Vidwan Id: <https://spav.irins.org/profile/92573>

Linkedin Id: <https://www.linkedin.com/in/ar-karthik-chadalavada-62918952/>

Education and Qualifications:

- ***Doctoral Programme in Architecture (Currently Pursuing) at School of Planning & Architecture, Vijayawada.**
 - **Working Title:** “Development of Simplified Passive Rating framework for Residential buildings in Warm & Humid Climate”
- **Masters of Architecture in Sustainable Architecture** from School of Planning and Architecture, Vijayawada (May 2016) – **First class with Distinction.** (8.04 CGPA)
 - **PG Thesis Title:** “Assessment of Carbon footprint for an Eco Sensitive resort – An approach to sustainability”
- **Bachelor of Architecture** from Acharya Nagarjuna University - College of Architecture and Planning, Guntur (May 2014) – **First Class** (65.15%)
 - **UG Thesis Title:** “Design of 4-Star Business Hotel at M.G Road, Vijayawada.”

Teaching and Professional Experience:

Position held	Place of work/ Employer	Period
Assistant Professor (Regular), Dept. of Architecture	School of Planning & Architecture, Vijayawada (SPAV), A.P	Oct, 2018 - Till Date
Assistant Professor (Ad-Hoc), Dept. of Architecture	School of Planning & Architecture, Vijayawada (SPAV), A.P	July, 2016 - Sept, 2018
Project Architect & Consultant to AP-CRDA & AP-UGBCL	Shilpa Architects, Himayat Nagar, Hyderabad	May, 2016 - July, 2016
Sustainable Development Intern	Indo-Swiss BEEP (Building Energy Efficiency Project) Green Tech Knowledge Solutions Pvt.Ltd, New Delhi	May, 2015 - July, 2015
Trainee Architect	Yagnik Architects, Indira nagar, Bangalore	Dec, 2013 - May, 2014
Trainee Architect	VBT Consortium , Sadhasiva Nagar, Bangalore	June, 2013 - Dec, 2013

Publications(Journals & Conferences) & Book chapters:

YEAR	PUBLICATIONS
2024	Chadalavada, K., Sarkar, A., & Srikonda, R. (2024). Environmental Impact Assessment of Using Vernacular Materials for Sustainable Developments: Insights from an Eco-Sensitive Resort in India. <i>International Society for the Study of Vernacular Settlements</i> , 11(8), 93–107. https://doi.org/10.61275/isvsej-2024-11-08-07
2024	Chadalavada, K & Srikonda, R. (2024). Cultural Landscape and Identity of Human Settlement; A case of Apatani Community in Ziro valley of Arunachal Pradesh. 10.2139/ssrn.4904146.
2024	Chadalavada, K & Srikonda, R. (2024). Thermal Comfort and Daylight Assessment of Traditional House in Amaravathi. IRAJ International Conference (pp. 1-8). Singapore: Institute for Technology and Research.(Conference Proceedings)
2023	MV Sykam & Chadalavada, K & Srikonda, R. (2023). The Vernacular Tradition as a Cultural Response for Tourism Development -A precursor to Amaravati Heritage Town. 16. 125-132.
2022	Chadalavada, K., (2022). Pedagogical approach in Teaching Building Construction: Hands-on learning workshop on Carpentry and Joinery , R. Srikonda & S. Daketi (Eds.), DoorZ "n" DoorZ (First Edition, pp. 70-71). IMRF Publishing House., (2022). (Book Chapter)
2021	Chadalavada, K. & Srikonda, R. (2021). Appreciation of Soundscape Design of Traffic Streams at Road Junctions – A Case Study of Ring road Junction, Vijayawada, Andhra Pradesh, India. <i>Engineering and Technology Journal</i> , 06(04). https://doi.org/10.47191/etj/v6i4.02
2021	Chadalavada, K., & Srikonda, R. (2021). Vernacular Practices: An Appraisal for Sustainability for Housing in Uttarakhand and Himachal Pradesh, India. <i>International Journal of Humanities and Social Sciences (IJHSS) ISSN (P)</i> .
2020	Chadalavada, K., & Sameer, S. (2020). Earthen Architecture: Sustainable and Eco-Efficient Construction. <i>International Journal of Sustainable Building Technology</i> , 3(2), 20-27.
2020	Chadalavada, K & Sripadma,R. (2020). Defensive architecture -A design against humanity. <i>International Journal of Advance Research, Ideas and Innovations in Technology(IJARI)</i> , 6(1), 247-251, ISSN No: 2451-132X
2018	Srikonda, R & Chadalavada, k & Talabathula, M. (2018). Assessment of Permanent Passive Stack Ventilation for Delhi Region, India. <i>International journal of interdisciplinary research & innovations</i> . 6. 50-59.
2017	Chadalavada, K.,Teja.V, Srikonda, R. (2017). Analyzing Vernacular Sustainable design principles- A case study of a vernacular dwelling in Godavari region of Andhra Pradesh, India. <i>International Journal Of Emerging Trends In Science And Technology</i> , 03(03), 5010–5017. https://doi.org/10.18535/ijetst/v4i3.05
2016	Chadalavada, K., et al. (2016) Case Studies - Design Guidelines for Energy Efficient Multi-Storey Residential Buildings - Warm and Humid Climates. Efficiency, I.-S. B.. Delhi: Bureau of Energy Efficiency (Project Team for Development of Case studies - Design Guidelines) https://www.beepindia.org/resources/

Research Interests & Expertise areas:

Green Building Certification & Energy Conservation Building Code Expert, Carbon footprint - Life Cycle Assessment(LCA) & Life Cycle Costing (LCC), Climate Responsive Architecture & Energy Efficient Buildings, Vernacular studies, Thermal Performance of Buildings.

Research Tools & Softwares:

Building Performance Evaluation Tools: IES-VE, Design Builder, Climate Consultant Analysis, Ecotect, Envi-met, AutoCAD 2024, Sketchup Pro 8, Photoshop CS-6, Pre-DCR (E-Sanction), MS-Office, Canva-Visal Suite.

Number of Thesis Guided till date: **PG Thesis of M.Arch (Sustainable Architecture): 9 Nos.,**
UG Thesis of B.Arch : 30 Nos.

Subjects Taught:

Theory: Building Services – II (ARC313); Environmental Codes & Energy Ratings (MSAR115) ; Energy Efficient Architecture (ARC326); Waste Management (MBEM1211); Electrical, HVAC, Building Automation & Fire Safety(10110507); Intelligent Buildings (10210302), Eco-sensitive Accessories & Green products (10210307)

Studio: M.Arch(Sustainable Architecture) - Envelope Design Studio, Building Materials & Construction – I, II, III & IV (10110106) (ARC212) (ARC312) (10110406); Architectural Design – III (ARC211); Architectural Design – V (ARC311); Architectural Design Studio – VI (ARC411); Architectural Design Studio – IV (ARC221); Architectural Design Studio – VIII (ARC421) and B. Arch Thesis Coordinator for A.Y 2023-24 & 24-25.,

Key Projects under Institutional Consultancy:

1. Vetting process of manuals (Community Buildings – Indoor Sports Halls, Educational Buildings - Library, Residential Buildings), Funding Agency : Andhra Pradesh State Architectural Board, Roads And Buildings Department, Government of Andhra Pradesh, Team Member, 3.75Lakhs, February 2024.
2. Polavaram Rehabilitation and Resettlement Planning, Funding Agency: Government of Andhra Pradesh, Team Member, 10.6Lakhs, 2023
3. Vetting process of New manuals (Education, Administration, Health), Funding Agency : Andhra Pradesh State Architectural Board, Roads And Buildings Department, Government of Andhra Pradesh, Team Member, 3.75Lakhs, 2022.
4. Third Party Inspection of Landscape Development and Beautification of road median & side spaces from Gannavaram Airport to Vaaradhi, Vijayawada for AP-CRDA (Andhra Pradesh Capital Region Development Authority).
5. Conceptual Design Proposals for Amaravathi Gateway and Iconic Bridge Design for Amaravati Capital city under ADC (Amaravati Development Corporation).
6. Landscape Face lift of Mukkulapadu Village, Nuzvid Mandal, Krishna District
7. Police Martyrs Memorial, 6th Battalion, AP Special Police, Mangalagiri, Andhra Pradesh, 2018.

List of Key Academic & Administrative roles at SPAV:

- 1) Program Coordinator - Bachelor of Architecture Programme at SPAV from A.Y 2023-24 to till date
- 2) Member, NASA Coordination committee from Feb 2024 to till date
- 3) Faculty In-charge (FIC) - SPAV Guest-house from Feb 2024 to till date
- 4) Member Convenor - Anti Ragging committee at SPAV from 2019 to till date
- 5) Member - Fit India Yoga & Health Club of SPAV from 2021 to till date
- 6) Faculty In-charge (FIC) - Material Museum lab at SPAV from 2018 to till date - Established new material Museum in the New campus of SPAV
- 7) Timetable Coordinator (UG & PG); Dept. of Architecture, SPAV from A.Y 2017 to till date
- 8) Member, Qualifying Entrance Exam Conduct Committee for PG Direct Admissions SPAV 2024
- 9) Member, Screening committee for Spot round of PG Admissions - 2023 & 24

- 10) Member, Alumni Coordination committee Faculty from 2018 to till date
- 11) Member, Physical verification of fixed assets and Library books of SPAV from 2018 to till date
- 12) Faculty In-charge (FIC) - DET Club of SPAV from Jan 2025 to till date
- 13) Program Coordinator - National Service Scheme(NSS) Cell of SPAV from 2019 to 2022
- 14) Associate Coordinator - Training and Placement Cell of SPAV from 2019-2023
- 15) Faculty In-charge (FIC) - Housekeeping services at SPAV 2023
- 16) Member, Faculty committee for NIRF ranking of SPAV 2018-19
- 17) Boys Hostel Warden for SPAV Hostels from Dec 2019 to Nov 2024.
- 18) Member, Hostel and Mess Committee of SPAV from Dec 2019 to Nov 2024
- 19) Member, Mental Health & Well being committee of SPAV from April 2020 to till date
- 20) Member, Food committee for 7th & 8th Convocation of SPAV
- 21) Polling officer - SPAV Student council Elections 2025
- 22) Team member for implementation of SAMARTH modules at SPAV dated 11-12-2024
- 23) Member - Committee constituted for Syllabus Revisions & modifications of B.Arch Program 2024
- 24) Member, CoA Inspection at SPAV dated 18th Oct 2023

Workshops / Seminars / FDP conducted and organised:

1. **Co-coordinator** for conducting Faculty Development Program (AICTE-ATAL FDP) on “**Natural Ventilation and Building Design in Tropical Regions**” from 13-09-21 to 17-09-21 at SPA Vijayawada
2. **Conducted Hands-on Workshop** on “**Bamboo Hyperbolic Paraboloid Structures**” for B.Arch II Year Students from 21-03-2024 to 25-04-2024 at SPA Vijayawada
3. **Conducted Hands-on Workshop: Staircase Design - Model making of different Staircase Designs** by B.Arch IV sem Students A.Y 2018-19 organised Workshop under the **Subject** - Building Materials & Construction-IV.
4. **Conducted Hands-on Workshop: Different types of Brick Bonds - Physical Construction of Brick bonds** by B.Arch I sem Students A.Y 2018-19 organised Workshop under the part of Development of Building Construction Yard.
5. **Conducted Hands-on Workshop: Different types of Staircase - Model making of Staircase using different materials** by B.Arch IV sem Students A.Y 2016-17 organised Workshop under the **Subject** - Building Materials & Construction-IV.
6. **Conducted Hands-on Workshop: Carpentry & Joinery - Construction of Wooden Doors & Windows** by B.Arch III sem Students A.Y 2016-17 organised Workshop under the **Subject** - Building Materials & Construction-III
7. **Conducted Comprehensive Training Program on ECBC-2017** organised by Administrative Staff College of India (ASCI) at School of Planning and Architecture Vijayawada on June 17-22, 2019
8. **Organising committee member of National Conference - AGNI - Energy Security for Atmanirbar Bharat** organised by Vijnana Bharati, Power foundation of India and SPA Vijayawada A.Y 2022-23
9. **Organising Committee member of 2 days National Conference - Energy Efficiency in Planning for enhanced Urban Resilience** organised by NIDM & SPA Vijayawada A.Y 2022-23
10. **Organising committee member Communicating Research and Open-access Publishing- Faculty development Programme (CROP-2019)** at SPA Vijayawada from June 17 – 22, 2019
11. **Organising committee member Scholarly Communication, Open Access publishing & Ethics (SCOPE-2018)** at SPA Vijayawada from Oct 25 – 26, 2018.
12. **Organised National Workshop on Building Insulation materials application & testing** by INDO SWISS-BEEP & Greentech knowledge Solutions Pvt. Ltd at India Habitat Centre Delhi on June 2015

Invited Lectures / Juries / Seminars etc. :

1. Appointed as **Independent Observer** (MoE/ICAR) for conduct of Indian Council of Agricultural Research(ICAR) 2024 - National wide Entrance exam by **National Testing Agency** (NTA)
2. Invited as **External Juror for Building Construction - I** at School of Architecture, KL Deemed to be University on 06th Dec 2024
3. Invited as **External Juror for Architectural Design Studio - IV** at School of Architecture, KL Deemed to be University on 18th May 2024
4. Delivered **Guest Lecture** on “**Evolution of Built Environment through Tradition and innovation**” at School of Architecture, KL Deemed to be University on 11th November 2023
5. Invited as **External member for Architectural Design Studio** at Vaishnavi School of Architecture & Planning, Vijayawada on 24th May 2023
6. Assigned task by CA for Shortlisting of Best Logo and Mascot for Aadudham Andhra of Sports Authority of Andhra Pradesh, Govt. of AP in the A.Y 2023-24
7. Invited as **External Juror for Building Construction - II** at School of Architecture, KL Deemed to be University on 19th May 2022
8. Invited as **Resource person for AICTE-ATAL FDP** for session on “**Architectural Design Interventions for Enhanced Natural Ventilation**” on 15th Sep 2021 at SPA Vijayawada
9. Invited as **External Examiner for Working Drawings** subject (AR1962 & 1062) by Jawaharlal Nehru Technological University, Kakinada (JNTU-K) on 14th August 2021.

Awards and Achievements:

- 1) Received Best Conference paper award for the paper titled “*Cultural Landscape and Identity of Human Settlement; A case of Apatani Community in Ziro valley of Arunachal Pradesh*’ in the 6th Bharatiya Vigyan Sammelan (BVS-2023) at Ahmedabad, India
- 2) Elected as Executive Committee member (EC) for IIA-AP Chapter for the term 2023-25 by The Indian Institute of Architects.
- 3) Received 2nd place (Team-04) for Amaravati Ideation Challenge - Exploration of designs for Capital city monument & major public space conducted by AP Capital Region Development Authority.
- 4) Elected as Vice-President - Student council SPAV for the term (2014-15) at School of Planning and Architecture, Vijayawada
- 5) Elected as Unit Secretary (U.sec) & Convenor for Z519; hosted Zonal NASA-2011 (AXA-II) for Zone-5 of National Association for Students of Architecture NASA-India.

Seminars, Workshops & Training programmes attended:

- 1) **National Online Faculty Development Program on “Application of Technology in Architectural Education”** from 16th Dec to 20th Dec 2024 by CoA-TRC Pune & Vastu Kala Academy, College of Architecture, New Delhi
- 2) **Two-Days workshop on “Prompt Generation using AI for Architectural Design in Architecture”** from 19th May to 30th May 2024 organized by BMS School of Architecture, Bengaluru
- 3) **Five day Online Short-term Teachers Training Program (STTP) on “Sustainable Synergy: Exploring Green Tech and Materials in Architecture”** from 6th Nov to 10th, 2023 organized by BMS School of Architecture, Bangalore.
- 4) **Five day National Online Training Program on “Sustainable Horizons: Methodological Innovations in Architecture and Urbanism aligned with SDGs** from 20th to 24th Nov 2023 organized by IIT BHU Varanasi and Manipal University.
- 5) **National 5 days Online Faculty Development Program on “Ecological Resilience Initiatives for Sustainable Development” (A+ grade received)** from July 31st-August 4th, 2023 organized by COA TRC Bhopal and SPA Vijayawada.

- 6) **National 5 days Online Faculty Development Program on “Learning from the Architecture Studio: Implications for Project-Based Pedagogy” (A+ grade received)** from July 24th- 28th 2023 organized by COA TRC Bhopal and School of Architecture KL Deemed to be University.
- 7) **Two days Physical Training Program on “Energy Simulation”** from July 12th-13th, 2023 Organized by AP State Energy Conservation Mission(APSECM) and ASCI in collaboration with BEE.
- 8) **National Workshop on “Intellectual Property Rights and Patenting Strategy (IPRPS)** on November 24th, 2023 Organized by Central Library of SPA Vijayawada.
- 9) **5 days online Executive Development Programme on “Site Planning, Zoning and Analysis”** from 26th to 30th June 2023 organised by School of Planning and Architecture, Vijayawada
- 10) **5 days online Faculty development program on Energy simulation and modelling in energy Plus for ECBC,IGBC and GRIHA** from 24th to 28th July 2023 organized by Amity school of Architecture and planning, Kolkata.
- 11) **2 days National Conference on “Energy Efficiency in Planning & Enhanced Resilience”** from 26th to 27th April 2023 by National Institute of Disaster Management and SPA Vijayawada
- 12) **National Conference on “AGNI - Energy Security for Atmanirbar Bharat”** on 19th Sept 2022 by Vignana Bharati, Power foundation of India and SPA Vijayawada.
- 13) **5 days Short Term course on “Recent Research Techniques in Architecture and Planning”** from 17th to 21st August 2022 organised by Dept. Of Architecture & Planning, NIT Patna
- 14) **Completed NPTEL+ course on Climate Resilient, Energy secure and Healthy Built Environments (CREST) Professional Development Program** in August 2022 by University of Bath & IIT Roorkee
- 15) **AICTE ATAL online 5 day FDP on “National Education Policy - Sustainable Change Management in Planning and Architecture”** from 04th to 10th Oct 2021 organised by SPA Vijayawada
- 16) **AICTE ATAL online 5 day FDP on “Natural Ventilation and Building Design in Tropical Regions”** from 13th to 17th Sep 2021 organised by SPA Vijayawada
- 17) **AICTE ATAL online 5 day FDP on “Green Buildings and Built Environment”** from 02nd to 06th Aug 2021 organised by Confederation of Indian industry(CII).
- 18) **AICTE One Week FDP on “Sustainable Concepts in Civil Engineering and Architecture”** from 21st to 25th July 2020 organised by Ramaiah Institute of Technology, Bengaluru.
- 19) **AICTE One Week FDP on “Advances in Water Resources management and Sustainable Environment”** from 17th to 21st August 2020 organised by Ramaiah Institute of Technology, Bengaluru
- 20) **Five days online FDP on “Mentoring and Facilitation Skills for Institutional Mentors”** from 27th to 31st May 2020 organised by Mahatma Gandhi National Council of Rural Education, MHRD, GOI.
- 21) **6 Days Physical Faculty development programme on Communicating Research and Open Access Publishing (CROP -2019)** from 17th to 22nd June 2019 Organised by SPA Vijayawada.
- 22) **One week physical Comprehensive Training Program on ECBC-2017** from 26th to 30th Nov, 2018 organised by Administrative staff college of India, APSECM & BEE
- 23) **Training program for Evaluators & Certified Professionals GRIHA V-2015**, from 23rd to 25th Feb 2018 organised by Green Rating for Integrated Habitat Assessment GRIHA - Council at Hyderabad.
- 24) **Three day National Workshop on Rethinking architecture, Energy efficiency and participation in Urban Development under Global Initiative of Academic Networks – MHRD, GoI. (GIAN-2017)** from 13th to 18th Aug 2017 at SPA Vijayawada
- 25) **Regional Workshop on Institutional Digital Repository (IDR-2017)** by National Digital Library project sponsored by MHRD, Govt. of India. from 21st to 22nd April 2017 Organised by SPA V and IIT Kharagpur
- 26) **National Workshop on “Scholarly communication and plagiarism” (SCP-2016)** on 07th Nov, 2016 at School of Planning & Architecture, Vijayawada
- 27) **National Workshop - Building Insulation materials application & testing** on June 2015 organised by INDO SWISS - BEEP & GKSPL at India habitat centre, Delhi
- 28) **National conference on Scholarly communication and Intellectual property rights (SCIIPR-2014)** on 04th & 05th August 2014 Sponsored by Dept. of Electronics and Information Technology (DEITY), Ministry of Communication & IT and DRDO, Ministry of Defence at SPA Vijayawada.

Membership of Professional Associations:

S.no	Membership	Professional Board/Body
1	Registered Architect, COA - CA/2015/67545	Council of Architecture (CoA)
2	Life Member & Associate; A-21325	The Indian Institute of Architects (IIA)
3	GRIHA Certified Professional (GRIHA-CP V. 2015)	Green Rating for Integrated Habitat Assessment (GRIHA-MNRE)
4	ECBC Expert Professional	Bureau of Energy Efficiency (BEE) & APSECM
5	IGBC Accredited Faculty (IGBC-AF) & Individual Member IM-1100106	IGBC- Indian Green Building Council
6	ISHRAE - Affiliate Member No: 67024	Indian Society Of Heating, Refrigeration & Air Conditioning Engineers (ISHRAE)
7	IIA - Executive Committee Member (Elected): Andhra Pradesh Chapter (2023-25)	The Indian Institute Of Architects - AP Chapter (IIA-AP)

Personal Details:

Father Name : CH MKP Chowdary
Date of Birth : 30-09-1991
Sex : Male
Nationality : Indian
Marital Status : Married
Languages Known : Telugu, English & Hindi

References:

- 1) Prof. Dr. Ramesh Srikonda
Professor, Dept of Architecture,
Presently Director, School of Planning and Architecture, Vijayawada
Email: ramesh.srikonda@spav.ac.in
Phone: +91 9676404850
- 2) Ar. Anjali B Yagnik
Principal Architect, Vijay & Anjali Architects Bangalore
Presently Dean, Faculty of Architecture, CEPT University, Ahmedabad
Email: yagnikarchitects@gmail.com
Phone: +91 9844011335

Declaration:

I, Karthik Chadalavada, certify that the above furnished details are true and complete to the best of my knowledge.

Sd/-

Karthik Chadalavada