



Dr. Prashanti Rao

PhD, MUDP, and B-ARCH
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Personal Profile

I am Dr. Prashanti Rao, currently serving as an Assistant Professor in the Department of Architecture at the School of Planning and Architecture, Vijayawada. I hold a Ph.D. in Architecture and Planning from the School of Planning and Architecture, Bhopal, where my doctoral research focused on ***"Linking Visual Accessibility and Usability of Green Spaces in Gated Residential Communities."***

With over two decades of professional and academic experience, my work bridges architecture, urban planning, and sustainable development. My core research interests include inclusive and barrier-free design, climate-responsive and bioclimatic architecture, urban resilience, and GIS-based environmental analysis. I have been part of several nationally funded projects, including as Co-Principal Investigator for the ***Low Emission Zone Plan for Old Core City Areas of Vijayawada*** under MoHUA, and as a member of the Erasmus+ BReUCom project on Building Resilient Urban Communities.

At SPA Vijayawada, I have coordinated a wide range of architectural and planning studios, presently guiding doctoral research on urban ecology and cultural landscapes, and organized AICTE-ATAL, COA-TRC, and GIAN programs, as well as international conferences and workshops. My academic contributions include books and book chapters with publishers like Springer and Intech-Open, and peer-reviewed papers in journals on sustainable design, urban green spaces, and environmental resilience.

Beyond teaching and research, I have served in several administrative capacities, including PhD Program Coordinator, COA Nodal Officer, Senate Member, and Chairperson of the Campus Development Committee. As an educator and researcher, I strive to integrate design innovation, environmental stewardship, and social inclusivity in architecture and planning to shape resilient and equitable built environments.

Educational Qualification

2017 Ph.D.

Architecture and Planning Discipline
School of Planning and Architecture Bhopal

Thesis title: ***"Linking visual accessibility and usability of Green Spaces in gated residential communities."***

2011 M. PLAN

Masters in Urban Development and Planning, Maulana Azad National Institute of Technology (MANIT), Bhopal.

Thesis Title: ***"Exploring Residential Land Values and determinants in Fringe Area for its sustainable growth process."***

1999 B. Arch - Bachelor of Architecture

Maulana Azad College of Technology (MACT), REC, Bhopal.

Thesis Title - ***"Special School for Disabled Children, Bhopal"***

Additional Certificate Short-term courses

2016-GIAN Course "Institutions, economic development and Industrial Upgrading" organized by SPA Bhopal

2016-GIAN course "Scenario Analysis for planners and Policy Makers" organized by SPA Bhopal

2017- NPTEL- IITR- 8 Week Certificate course on "Housing and Policy"

2019- 5-day Certificate Course- "Energy Conservation Building code program and expert certification Assessment"

2020-15 days Certificate Course, IIRS Dehradun- "Online Certificate Course on Remote Sensing & GIS Technology and Applications for University Teachers & Government Officials."

2020- NPTEL- IITR- 8 Week Certificate course on "Role of Craft and Technology in Interior – Architecture"

12th July'2021 -ATAL FDP- Topic: Pedagogical process in architecture – An orientation for young teaching fraternity | Institute: School of Planning and Architecture, Vijayawada, Andhra Pradesh.

5th July'2021 -ATAL FDP- Topic: Instructional design for effective teaching | Institute: BML Munjal university, Kapriwas, Haryana.

13th September 2021 -ATAL FDP- Topic: Natural ventilation and building design in tropical regions | Institute: School of Planning and Architecture, Vijayawada, Andhra Pradesh.

July 20 to August 17, 2022-Green Infrastructure – Effective measures for urban flooding and groundwater management **by CSE**

2022-Global Online Certificate Course: Demystifying Environment Data for Communication and Impact **by CSE**

December 2024- GIAN Course-Design and Management of Truly Safe Road Transport System -Organized by MANIT, Bhopal.

6-01-2025 to 11-01-2025- AICTE (ATAL) Academy-Disaster Management and Resilient-Sustainable cities at Maulana Azad National Institute of Technology, Bhopal.

2025-NPTEL-SPAV-12 weeks Certificate course on "Bio Climatic Architecture: Future Proofing with Simple and Advanced Passive Strategies

2025-NPTEL-IITR-12 weeks Certificate course on "Research Methodology for Planning and Architecture studies".

Industrial and Academic Appointments/Experience

Presently since 2018

Assistant Professor-(Regular)
Department of Architecture
School of Planning and Architecture, Vijayawada

May 2018 since Dec 2017

Associate Urban Planner- (Free Lancer) Sumith
Gothi and Associates, M.P Nagar, Bhopal

Nov 2017 since June 2015

Assistant Professor-(Ad hoc) Department of
Planning
School of Planning and Architecture, Bhopal

May 2015, since July 2014

Assistant Professor-(Ad hoc)
Department of Architecture
School of Planning and Architecture, Vijayawada

June 2014, since August 2012

Research Scholar (Ph.D.)-Mandatory 8 hrs./Week teaching
Department of Architecture and Planning
School of Planning and Architecture, Bhopal

August 2012 since Jan 2012

Assistant Professor-(Ad hoc)
Department of Architecture and
Planning MANIT, Bhopal

2005-2011(Real estate)

Project head and Senior Architect-
(Regular -Limited Real-estate company)
M/s Agrawal Builders, a Leading Real
estate company,
E-2/4 Arera Colony, Bhopal

2002-2005 (Proprietor Partnership- Free Lancer)

Consultant and Architect-
(Proprietor Partnership- Free Lancer)
M/s Satyam Construction, Chun Bhatti,
Bhopal

2000-2002 (Real estate)

Architect-
(Regular -Limited Real-estate company)
M/S Agrawal Construction Company,
Bhopal

1999-2000 (Architectural Firm)

Deputy Architect

M/S Design Avenues, M.P Nagar, Bhopal

Major Architectural Project as a Free Lancer (2002-2017)

- Sagar Public School, Saket Nagar, Bhopal-4 acres
- Sagar Estates, Ayodhya Nagar, Housing Township -8 acres
- SIRT, Ayodhya Bye Pass, Bhopal – 10 acres (Engineering Institute)
- Sagar Royal villas, Hoshangabad Road (550 Household)-13 acres
- Sagar Lake View Homes, Hathaikheda (350 households) –7 acres
- Sagar Public School, Gandhinagar -6 Acres
- Sistec–Gandhinagar (Engineering Institute)-7 acres
- Sistec-E and R, Ratibadh (Engineering Institute)-11 Acres
- Sagar Spinning Mill, Thamot, Obedullaganj-100 Acres
- Karvy Financial Limited, Sehore, Interior project
- Bhartiya Airtel office, Interior project
- Gharonda Galleries, DB Mall. Interior Project

Planning Studio Coordinated 2012-to till date

SPA Bhopal

- Transport planning studio for IV Sem case study, Sehore urban area.
- Neighborhood planning studio for II Sem case study, Sagar royal villas, Hoshangabad Road, Bhopal, Residential township.
- Environmental planning studio: Development of a solid waste management proposal for Machilipatnam, A.P
- Basic design planning studio for I semester of the B planning course.
- Integral studio for Master's in Planning as an adjunct faculty. Studio had three components (Area appreciation, Rural studies, and Urban studies)-Ratibadh
- Regional planning studio for Master's in Planning III Semester for APCR (Andhra Pradesh capital region), A.P. district.
- Local area Planning studio Sem B-Plan for wards no-54 and 60 of Bhopal municipality.

SPA Vijayawada

- Integral studio for Master's in Planning – Pondicherry at SPAV

Architectural Studio Coordinated 2013-Till Date

SPA Bhopal

- Urban Design Studio for IX semester –Revitalization of New market area, 10 number Market Square, Bittan Market Area.
- Design of resort for IV Sem, Case study of Shimla, Manali, Dharamshala, and Chandigarh.
- Design of Commercial Mall V Sem, Case study of Bangalore, Mysore.

SPA Vijayawada

- Vernacular studio (Settlement Planning) III Sem- Case study of Raghurajpuraan Artist village 50 km away from Puri, Bhubaneswar, Vishakhapatnam.
- Urban Design Studio for IX Sem- Revitalization of Railway Station and its adjoining Precinct, Vijayawada.
- Fundamental Basic Design Studio-II – Case Study of Dakshin Chitra - Pondicherry and Auroville.
- Vernacular and Contemporary Residence Design- Chettinadu Houses and Weaver Settlement Planning –Case Study of Karaikudi, Kumbhakonam, and Chettinadu houses at Nachiapuram of Tamil Nādu.
- Fundamentals of Basic Design I Studio
- Fundamentals of Basic Design-II Studio
- B-Arch Thesis
- Complex Building Studio -VI Sem- 3-star Hotel cum Commercial Complex (Twice)- Ranchi and KR Market Vijayawada
- Vernacular and Contemporary Residence Design- Trivandrum -Kerala
- Integrated wellness Township- VIII Semester -Kolkata
- Urban Design studio -IX Sem-New Delhi (Nehru Place Precinct)
- Coordinated -B-Arch Thesis -2021

Workshop/FDP/Conferences/Expert lecture/ Webinar Organized -2012 to 2025

Workshop-

- **Universal design for exploring world heritage sites in India.** 8-9 Oct 2012 (Visited Sanchi and organized Hands-on workshop. As an Organizing committee member, School of Planning and Architecture, Bhopal.
- **Awareness Workshop on 'Accessibility' for future professionals** at School of Planning and Architecture, Bhopal from Dec 9 to 12th, 2016. Organizing committee member of the School of Planning and Architecture, Bhopal.
- **Three Days Paper Engineering Workshop -Cut, Fold, Construct** by Arun Desai ji on 26th, 27th, and 28th November 2024 at SPAV
- **One Day Workshop -Urban Housing Dynamism and Future Trends** - 11th April, 2025 at SPAV offline mode
- **One Day Workshop -Natural Resource Management-Watershed Management Suitability and Predictive Modelling/Interpolating Surfaces/ Regression Modelling-** 16th April, 2025, at SPAV Online mode

Conference-

- 54th International conference on **"Urban Green and Blue"** held in School of Planning and Architecture Vijayawada on Feb -8-9 2015. Organizing committee member of School of Planning and Architecture, Vijayawada.
- Organizing Committee member for international conference on **Raja Bhoj**

Contribution on Architecture Planning and its relevance today at Bhopal, December 2017.

- International Conference on **Resilient and Livable City Planning (RLCP 2020)** Transforming Urban Systems Held at SPA Vijayawada on 10-13th Feb 2021. Technical collaboration and Knowledge Support for RLCP 2020 are Emerald Publishing and Springer

Expert Lecture-

- **Social spaces** -Two days offline lectures for B-Arch Final year Students In view of Urban design studio -IX Sem **Ar. Prasanna Desai**– On 21-09-2018
- **Culturally Responsive Built Environments, Vernacular practice and Civic design** - Two days off line lectures for B-Arch Students in View of III Sem Vernacular Architecture Studio -**Dr. Ram Sateesh Pasupaleti**– On 10-03-2019
- Online webinar on- **Application of GIS for Landscape Architecture for Master's Landscape Architecture** -1ST Year by **Mr. Shubham Mishra** – On 05-05-2022
- Online webinar on- Advancing towards ecological resilience **Dr. Priya Leen Singh – Role of cultural Landscapes in building environmental Resilience- Demystifying Conservation.** On 10-11-2021

Faculty Development Program-

- Six-Day eSTTP and Industry-Academia Outreach Programme "**Urban Dynamics and Climate Change**-28/01/2021 to 3/03/2021
- The National Level Online faculty development Program on "**Barrier-free design and Universal Design Principles in Architecture and Planning**" was conducted from 14th to 18th November 2022 in collaboration with COA-TRC
- The National Level Online Faculty Development Program on "**Ecological Resilience Initiatives for Sustainable Development**" was conducted from 31st July to 4th August 2023 in collaboration with COA-TRC

Executive Development Program-

- A **simulation and visualization tool for built environment study** was conducted from 10th to 14th July 2023 at SPAV in online mode.
- **National Level Online Training Program on Urban Data Analytics & Visualization with Power BI**, organized by SPAV in collaboration with MANIT Bhopal by Er. SAMARJEET SALUNKE on 17th – 21st March 2025

Design Competition for Students under IIC

- **Inclusive Play Equipment for Public Parks**- Conducted on 21st October 2024 at SPAV Campus
- 18th – 22nd April' 2022 | **Workshop: Filling the gaps** | Event: Demystifying architectural sketching.

GIAN

- Faculty Coordinator for **Heat Stress and Advances in Passive Cooling**- 8th – 12th September 2025 | SPA Vijayawada by Prof. Matthaíos Santamouris (UNSW Sydney) and Prof. Dr. Vijaylaxmi Iyer Kasinath
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Research Experience and Consultancy Projects

2025-CO-Principal Investigator (CO-PI) – Research Project titled 'Preparation of Low Emission Zone (LEZ) Plan for Old Core City Areas, Vijayawada', project funded under AMRUT Division of Ministry of Housing and Urban Affairs (MoHUA, Government of India); Dec-2024

2024- Suryalanka Beach Project- Member for the Development of Suryalanka Beach Corridor as an Iconic Tourist Centre Proposal. Successfully submitted DPR, as one of the 03 official entries from AP for funding under Special Assistance to States for Capital Investment Development of Iconic Tourist Centers to Global Scale.

2024-Polavaram-Polavaram Rehabilitation and Resettlement Planning, Funding Agency: Government of Andhra Pradesh, Team Member, 10.6Lakhs, 2023

2019- Building Resilient Urban Communities (BReUCom) Research Project- Completed

A project funded under the EU Erasmus+ Program in the field of Capacity Building in Higher Education. The BReUCom project conceives and pilots postgraduate short-term Professional Development Programs (PDPs) and open courseware (OCW) targeted at real-world problems. Worked in the capacity of a member, organized two PDPs, prepared OCW, and organized an international conference as RLCP.

2019-GIS-Based Master Plan Project for ELURU Package of DTCP, Andhra Pradesh (Completed) This project is awarded by the District Town and Country Planning, Andhra Pradesh, to develop a GIS-based Master Plan for three towns: Eluru, Jangareddygudem, and Palacole. Working in the capacity of GIS Expert (as a member)

2019-Heritage walkway - Moghalrajapuram Caves, VMC Project (Completed Partially)

This project is funded by Vijayawada Municipal Corporation. The main objective is to conserve the Mugharajapuram caves- 5 representing rock cut architecture numbers belonging to (5th century to 12th century AD), which exist on that street of 2km stretch, with landscape interventions, to enrich the past. Worked in the capacity of Project In charge.

2017-Integrated cluster Action Plan, Madhya Pradesh-(Completed) Integrated cluster action plan for Madhya Pradesh Cluster under the National Rurban Mission (NRuM), having the vision of "Development of a cluster of villages that preserve and nurture the essence of rural community life with Focus on equity and inclusiveness without compromising with the facilities perceived to be essentially urban in nature, thus creating a cluster of "Rurban Villages" has been taken up by the School of Planning and Architecture, Bhopal, an Institute of National importance. Worked as - Cluster Coordinator for Achatt Cluster of Chhatarpur District

2012- Ashapuri Temple Project

Client: Madhya Pradesh Monument Project, Government of Madhya Pradesh, Department of culture and world monument fund Project taken up: School of planning and Architecture, Bhopal (P.I.- Dr. Vishakha Kawathekar) and P.R.A.S.A.D.A., Welsh School of, Cardiff University Architecture (CO P.I. Dr. Adam Hardey) Worked on Photo Documentation with critical dimensioning of architectural fragments. Along with site visit as and when required.

2012- Chambal Ravines and Rivers

School of Planning and Architecture, Bhopal (P.I.-Dr. Vishakha Kawathekar) Contributed for a few sections of the report, they were as mentioned Socio Socio-economic impact on ravine lands, Economic analysis of bamboo plantation in three major ravine systems of India, and Temples in Chambal valley.

FDP (Resource Person)-COA-TRC

10th – 13th August 2021 -"**Exploring Urban Planning Prospects in Architectural Design Studios – An Integrated Approach Towards Establishing Livable Cities**"

Organized by Institute: Nehru School of Architecture, Coimbatore, Tamil Nadu under COA – TRC :

- 1. The implementation of policies in urban planning and design,**
- 2. Different architectural perspectives on sustainable urban development**

Chitkara School of Planning and Architecture invited as an expert for a Five- Day Online Faculty Development Program on "**Emerging Paradigms in Research in Architecture: A Skill-building Approach**" in collaboration with CoA TRC Bhopal From 07th November 2022 to 11th November 2022. to deliver a lecture on the **topic "Qualitative & Quantitative Research: Methods and Techniques"** on 07.11.2022

Outreach programme/ Guest lecture

1. June -2014-Invited as a **Discussant** in International workshop held in School of Planning and Architecture Vijayawada on **Architectural Pedagogy**.
2. May 2018- Invited as **Resource Person** to Speak upon **Importance of Green Building** Workshop conducted by Sagar Polytechnic on Green Buildings.
3. 6th – 10th July' 2021-Topic: **Implementing architecture innovation from foundation to finish**. Workshop Organized by Institute: LNCT university, Bhopal.
4. 2nd August 2021-Theme: -Fundamentals of research design and methodology Topic- **Data in Research** Institute: Oriental college of technology, Bhopal, Madhya Pradesh.
5. 6th April 2022-Theme: A mixed-methods approach to research and innovation in architecture and urban planning-Topic: **Data Analysis and Mixed Methods** Institute: Chitkara school of planning and architecture, Chandigarh, Punjab.
6. 4th-5th February 2025-**Key Note Speaker- SPORTSCAPE-2025 International Conference on Inclusive Sports for All: Transforming Infrastructure for Accessibility-Organized by Department of Architecture and Planning, MANIT (An Institute of National Importance under Ministry of Education, GOI)**

7. 28th June 2025-**Panelist- National Seminar on Leveraging Research and Innovation for Viksit Bharat@2047 for IKS Session**, Delivered a lecture on the Importance of Vernacular Architecture in IKS

8. 25th July 2025-**Guest lecture on From Idea to Thesis: Research Foundations for Architectural Inquiry at SPAV**

Book and Book Chapters Published / Edited

1. Book Edited as a member of editor Uniting differences – **"Uniting design for exploring the world heritage sites in India"** –ISBN 978-81- 927981-0-3 – published in 2014 by SPAB Press.
2. Published Book Chapter in Innovative Energy Technology Systems and Environmental Concerns: A Sustainable Approach, on **"Ecosystem Conservation through Sacred Groves"**, ISBN: 978-93-84144-81-4, Page 213-220 in Year 2014.(Paper Presented in International conference on Agriculture, Forestry, horticulture, Aquaculture, Animal sciences, Food technology, Biodiversity and Climate Change; AFHAFBC- 2014 organized by Krishi Sanskriti on 30th and 31st August 2014 at conventional Centre, Jawaharlal Nehru University New Delhi}
3. Published Book **"Linking Visual Accessibility and Green Space Usability in Gated Residential Communities,"** Volume First Edition, Year 2021, Pages 1-205 by INSC Publishers.ISBN:978-1-954461-78-9.
4. Published open access peer-reviewed Book Chapter -"**Energy-Efficient Landscape Design.**" Authored by Dr. Prashanti Rao and Dr. Janmejoy Gupta, as a part of book "Design of Cities and Buildings-Sustainability and Resilience in the Built Environment", Year 2021, June Pages 1-16 published by Intech Open, England. DOI:DOI: 10.5772/intechopen.94904 , ISBN: 978-1-78985-150-2: Print ISBN: 978-1- 78985-149-6, eBook (PDF) ISBN: 978-1-78985-669-9. Copyright year: 2021 (Editor- Dr. Samad Sepasgozar, UNSW Sydney)
5. Published open access peer-reviewed Book Chapter -"**Role of Green Spaces for Maintaining Well-Being in Residential Community Development**" Authored by Dr. Prashanti Rao as a part of book "Improving Quality of life", Year 2021, Pages 1-21", published by Intech Open, England. DOI:DOI: 10.5772/intechopen.97681. , Submitted: December 9th 2020 Reviewed: April 12th 2021, Published: May 19th 2021. Edited by Ryan Merlin Yonk.
6. Published open access peer-reviewed Book Chapter **"Green Space Association with Mental Health and Cognitive Development"** Authored by Dr. Prashanti Rao, Ms Somaina Islary and Ar. Kapil Natawadkar as a part of book "Urban Green Spaces ", Submitted: January 19th, 2022 Reviewed: February 11th, 2022 Published: April 26th, 2022 by Intech Open, London. DOI: 10.5772/intech open 103667.
7. Rao, P., Islary, S. (2025). **Comparative Analysis of the Baseline and**

Remodelled Scenario to Study the Presence of Green Infrastructure to Mitigate Heat Intensity: A Case of Vijayawada City. In: Vijayalaxmi, J. (eds) Sustainable Building Performance. Springer, Singapore.
https://doi.org/10.1007/978-981-96-2428-7_10

8. Deltas Resilience-Nature-Based Solutions for Sustainable Development in India. Book **"Adaptive Traditions: Harnessing Indigenous Knowledge for Wetland Restoration in the Krishna Basin."** Accepted in process visible online by March 2026. Hardcover ISBN978-3-032-07239-9

Papers Published/un Published/Presented in National and International Conferences

1. Published in International conference proceedings **"Measurement of Sustainability in terms of Human population and their respective environments across time and space."** (CASA-2012) held in Bangkok. Presented Virtually.
2. Published research Paper in International conference proceedings **"Interrogating Urban Transformations: since Bhopal Gas tragedy to the new shopping mall after the Global Economic Crisis."** Held in ATNEIR, Italy. (May-2013), Presented by Co-Author
3. Published and Presented paper on **"Urban development a threat to Biodiversity"** in National Conference conducted by ITPI 62 Congress at Pune on 10th -12th of Jan 2014
4. Published research paper in international conference proceedings **"Role of sacred grooves in sustenance of urban ecology"** in international conference organized by IIITM Gwalior on environmental sustainability.
5. Presented Paper **"Initiatives for urban green spaces in Indian cities"** on International Conference held in SPA Vijayawada on Urban green and blue. (MAY 2015)
6. Rao, P (2017), **"Factors impacting the transition in functions of water bodies and green spaces of Bhopal City, From Parmara Mughal Dynasty to Contemporary Era."** International conference on Raja Bhoj Contribution on Architecture Planning and its relevance today.
7. Rao, P (2018), **"Spatial and economic challenges of newly formed Capital region: A case of APCR"**, 12th World Congress of the RSAI, Spatial system: Social Integration, Regional development and sustainability, Goa.
8. Rao, P (2018), **"Importance of Green Building in Smart City: Scope and Challenges"**, National seminar on Green Building, S.R. Govt. Polytechnique College, Sagar, Madhya Pradesh. (Presented not published)
9. Rao, P (2018), **"Mechanism to Promote Fuel Shifting Strategies From, Non-Renewable to Locally Available Sources in Rural India: A Case of Ratibad**

Cluster, Madhya Pradesh State”, Souvenir of National conference on Comprehensive village development feasibility and sustainability.

10. Published and Presented paper on **“Gated Communities Social sustenance and challenges of Open Spaces standards in India”** in international conference “Resilient and livable City Planning-2020” held in SPA Vijayawada at February 10-15, 2021 Technical collaboration and Knowledge Support for RLCP 2020 are Emerald Publishing and Springer, ISBN:978-93- 90211-61-6.
11. Presented Paper on **“Global Challenges of Sustainability for Urban Villages”** in online international research symposium held on 21-22 May 2022, organized in collaboration with COA, NIUA, FOA&E JMI, THAMMASAT UNIVERSITY, CCA, FOAP AKTU, MSA, our associate institutions and knowledge partners, and to our publisher SCOPUS-indexed book series "Advances in 21st Century Human Settlements", published by Springer Nature Singapore Pte Ltd.
12. Presented Paper-**Architectural Strategies and Socio-Cultural Factors for Preservation of Sacredness in Dravidian Style Temples** for the international conference Visva Veda Vijnana Sammelanam conducted by Sastra College, Thanjavur, December 22 to 25, 2024.
13. Presented Paper in 1st Vision Zero Summit organized by MANIT Bhopal on 29th to 31st May 2023 - **Parking Supply Management Strategies for Improving Mobility and Road Safety in Core Commercial Streets of Vijayawada** by Prashanti Rao & Priyanka Doda.
14. Presented Paper in 2nd Vision Zero Summit organized by MANIT Bhopal on 29th to 27th March 2025 - **Sustainable Mobility through Safer Roads in the Indian Context** by Prashanti Rao
15. Presented Paper in SPORTSCAPE-2025, "Inclusive Sports for All: Transforming Infrastructure for Accessibility on **“Comparative Analysis of the Factor Impacting the Inclusiveness of Sports Infrastructure In India”** under ICSSR Project on 5th Feb 2025.
16. Presented Paper in 'Calibrating Urban Livability in the Global South: Gendered Perspective on Climate, Health, Governance, and Policy funded by Urban Studies Foundation (USF) Conference on March 27th -29th, 2024 titled **Evaluating Liveability by Mapping Usability for Passive and Active Green Spaces Enclosed within Gated Residential Communities**

Papers Published in Journals

1. Published paper on **“Empirical Investigation of the Initiatives to Alleviate the Development, Management, and Protection of Urban Green Spaces, - A Comparative Analysis of Twin City Ahmedabad and Gandhinagar in State of Gujrat, India”** in International Journal of Engineering Research, Volume Vol. 2, Year 2013.

2. Published paper on **"Evaluating the Urban Green Space benefits and functions at macro, meso and micro level: case of Bhopal City"** in International Journal of Engineering Research, Volume Vol. 3, Year 2014, Pages 359-369.
3. Published paper in Spandrel (Issn-2231) **"Green Space as a major indicator for Sustainable Gated Residential Communities for future Indian cities."** (Issue-9, 2015)
4. Published paper in Spandrel (Issn-2231) Issue **"Integrating Sustainability in Creativity; Study on Informal Settlement Of Artists At Raghurajpur, Orissa."** (Issue-10, 2015)
5. Published research paper in Spatio-economic development record Journal (May-2016 issue) **"Developing tool to assess land use deviation to mitigate environmental conflicts on eco fragile areas, a case study of Dehradun."**
6. Published research paper in Spatio-economic development record Journal (Nov-2016 issue) **"Exploratory analysis for usability of green spaces in gated residential communities: a case of Bhopal city."**
7. Published research paper in Journal of Institute of Town Planners, India, Year 2017, **"Evaluating accessibility standards and bye laws for provision of green spaces in contemporary housing solutions"**.
8. Rao, P (2018), **"Assessment of Usability of Green Spaces for Low and Higher mobility User in Gated Residential Communities through Accessibility Indicator"**, International Journal of Applied Engineering Research ISSN 0973-4562, Volume 13, Number 13 (2018) pp. 11172-11182.
9. Rao, P (2019) **"Role of Cultural and Religious for Ecosystem changes."**, International Journal of Innovative Technology and Exploring Engineering (IJITEE), ISSN: 2278-3075, Volume-X, Issue-X, July 2019 (Scopus Index, DOI)
10. Basu, M., Kaja, N. & Rao, P. Study on **Life Cycle Assessment and Life Cycle Sustainability Assessment of Buildings: A Review**. J. Inst. Eng. India Ser. A 105, 749–766 (2024). <https://doi.org/10.1007/s40030-024-00831-3>
11. Rao, P., Islary, S. (2025). **Comparative Analysis of the Baseline and Remodelled Scenario to Study the Presence of Green Infrastructure to Mitigate Heat Intensity: A Case of Vijayawada City**. In: Vijayalaxmi, J. (eds) Sustainable Building Performance. Springer, Singapore. https://doi.org/10.1007/978-981-96-2428-7_10

PhD Guidance

1. **Framework for Aerodynamic Analysis for high-rise group housing neighborhoods for thermal comforts in hot and humid zone-Case study of Neighborhoods in Capital Region, Amaravati, Andhra**

Pradesh- Full Time-Co-Supervisor (Murikinati Sai Sumanth-Registered in 2024)

2. **"Integrating Cultural and Social Ties to Nature in Urban Landscape Planning: A Socio-Ecological Valuation of Sacred Riverfront Spaces in Guwahati"**-Part-Time, Main Supervisor (Ar, Somaina Islary- Registered in 2025)
3. **Development of a Framework for the Cultural Life Cycle Assessment of Traditional Residential Buildings in India: A case of traditional courtyard houses of West Bengal, India-** Full Time-Co-Supervisor (Ar. Manali Basu- Registered in 2022)

Articles in Newsletters

- Published article on **"How much green is our Indian cities "**in ITPI Newsletter M.P Chapter-2013.
- Published article on **"Initiatives for development and protection of green spaces in urban area"** in ITPI Newsletter M.P Chapter-2013.
- Published in IIA Journal 2024- **Ancient Indian Vernacular Architecture and Sustainable Development Practices.**
- Published in IIA Journal 2024- **Blue-Green Landscape Strategies For Sustainable Development & Cultural Preservation Of Estuarine Ecosystem – A Case Of Sathar Island & The Periyar River Edge**

Reviewer for international Journals

- Environmental Health (REVEH)
- International Journal of Architecture and Infrastructure Planning
- International Journal of Landscape Planning and Architecture
- International Journal of Architecture and Infrastructure Planning

Academic and Administrative works within the institute

- Vertical Design Studio -2020
- Preparation of Annual Report-2019 -2020
- Preparation of IPR-2020
- Organizing SPIC MACAY -2019 as Cultural Coordinator
- Organizing Annual Fest Inyan -2018 to 2021 as Cultural Coordinator
- Organization of National Festivals like Republic Day, Independence Day,

Swatch Bharath Abhiyan, Ekta Diwas, and Hindi Diwas within the Institute-
2018 to 2021

- Development works like Compound wall construction, Basketball Ground, Football Ground, and Open Gym Facility