

Curriculum - Vitae

1. **Name** Rama Umesh Pandey
2. **Designation** Associate Professor & Head, Department of Environmental Planning
3. **Department** Environmental Planning, School of Planning and Architecture Bhopal
4. **Contact** ramapandey@spabhopal.ac.in,
rama.ukp@gmail.com,



5. **Qualifications:**

- Bachelor in Architecture from MACT (MANIT) Bhopal (Regional Engineering College) in 1990 (**Gold Medalist**) with 82.0%
- Post Graduate Diploma in Planning (Specialization in Environmental Planning) from School of Planning, Centre for Environmental Planning and Technology (CEPT), Ahmedabad in 1992 with 65.9%
- Ph.D. from Maulana Azad National Institute of Technology (MANIT) Bhopal on topic "Framework for Evaluating Livability Performance of Residential Built Environment: An Analytical Approach in Indian Context", in 2014

6. **Key Capabilities:**

Areas of specialization: Climate Change Informed Settlement Planning; Mainstreaming Environmental Concerns both Global and Local Level in Spatial Planning; Socio-ecological and climate change resilience; and Livability of the residential built environment.

Roles: Academician, Researcher & Administrator with total professional, academic and research experience of more than 20 years.

Responsibilities in SPA Bhopal include:

Research:

- Conceptualizing and Planning of research and consultancy projects.
- Member of Doctoral Research Committee (January 2017 – January 2018) in PhD Programme of SPA Bhopal and member of DRC in Environmental planning Department from February 2018 till date.

Academics:

- Head, Department of Environmental Planning, July 2020 to till date in SPA Bhopal.
- Coordinator, Master of Planning (Environmental Planning), June 2014 to December 2016 and February 2018 to June 2020 in SPA Bhopal.
- Coordinator, Master of Planning (Urban and Regional Planning), Jan 2017 to January 2018 in SPA Bhopal
- Teaching and Syllabus developing
- Chairperson/Co-chairperson/Member of Post Graduate (Environmental Planning & Urban and Regional Planning) admission committee since 2011
- Contributed in academics as well as in administration as a Member of several other committees (disciplinary, anti-ragging, etc.)

Administrative:

- Girls' Hostel Warden (December 2012 to December 2018)

7. **Employment record**

Total Academic, Industry and Research Experience: More than 20 years

Academic (Starting from present position)

- Assistant Professor (AGP Rs.8000/-), Department of Planning, SPA Bhopal from July 2013 to till date
- Assistant Professor (AGP Rs.7000/-), Department of Planning, SPA Bhopal from May 2011 to June 2013
- Research Scholar in Department of Architecture and Planning, Maulana Azad National Institute of Technology, Bhopal, India, from January 2010 to April 2011
- Contract Faculty in Department of Architecture and Planning, Maulana Azad National Institute of Technology, Bhopal, India, from July 2009 to December 2009
- Contract Faculty in Interior Design Department, Premlila Vithaldas Polytechnic, S.N.D.T. Women's University, Mumbai, India from July 2001 to December 2004
- Visiting Lecturer in Maulana Azad College of Technology, Department of Architecture, Regional Engineering College, Bhopal, India from August 1992 to February 1993
- Visiting Lecturer in Town Planning and Architecture department, S.V. Polytechnic, Bhopal, India, Bhopal, India from July 1993 to November 1993

Profession / Industry

- As Head, Design Department, with AAA Homes, a multicultural organization based at Kingdom of Bahrain, engaged in Construction, Property Development, Interior Decoration, Landscaping and allied services. from July 2005 – June 2008
- As Architect/ Planner with Amogh Kumar Gupta, Architect, Valuer and Planner, one of the leading Architect Planner of Bhopal, India from July 2008 – June 2009 and August 1999 to May 2001
- As Architect/ Planner with Manoj Misra and Associates, Bhopal, India, one of the leading architects' office in Bhopal from August 1997 to July 1999 and March 1992 to February 1994

8. Publications

List of Publications

- Wadwekar M., Pandey R. (2021) Assessing Groundwater Recharge Potential Through Rainwater Harvesting in Urban Environment: A Case of Bhopal City. In: Pandey A., Mishra S., Kansal M., Singh R., Singh V. (eds) Water Management and Water Governance. Water Science and Technology Library, vol 96. Springer, Cham. https://doi.org/10.1007/978-3-030-58051-3_31
- Pandey R.U., Muralee S.N.S., Sah J. (2020) Bio-Diversity, Ecosystem-Health and Their Relation with Pandemic. In: Indian Institute of Technology, National Institute of Disaster Management (eds) Integrated Risk of Pandemic: Covid-19 Impacts, Resilience and Recommendations. Disaster Resilience and Green Growth. Springer, Singapore. http://doi-org-443.webvpn.fjmu.edu.cn/10.1007/978-981-15-7679-9_3
- Pandey, R. U., Surjan, A., & Kapshe, M. (2017). Exploring Linkages between Sustainable Consumption and Prevailing Green Practices in Reuse and Recycling of Household Waste: Case of Bhopal City in India. *Journal of Cleaner Production*, 173, 49-59. doi:<http://dx.doi.org/10.1016/j.jclepro.2017.03.227>
- Jayaraj, P., & Pandey, R. U. (2017). Exploring Linkages between Regenerative Capacity of Coastal Ecosystem and Sustainable Livelihood- A New Insight. *International Journal of Emerging Technologies*, 8, 53-58.
- Manisha, K., & Pandey, R. U. (2017). Catchment Area Assessment of Upper lake Bhopal using Geospatial Technologies. *SPANDREL*, 12, 54-70.
- Pandey, R. U., & Garg, Y. K. (2016). Evaluating Livability Performance of Residential Built Environment: A step towards making a Smart City. *SPANDREL*, 11, 39-51.
- Pandey, R. U., Garg, Y. K., & Bharat, A. (2014). Understanding Dependency of Livability on Socio-Economic and Demographic parameters. *International Journal of Humanities and Social Sciences*, 3(1), 61-68.
- Pandey, R. U., Garg, Y. K., & Bharat, A. (2014). Quantitative Approach for Understanding Perspectives on Livability in Indian Context. *International Journal on Emerging Technologies*, 5(1), 1-7.

- Pandey, R. U., Garg, Y. K., & Bharat, A. (2013). Understanding Qualitative Conceptions of Livability: An Indian Perspective. *International Journal of Research in Engineering and Technology*, 2(12), 374-380.
- Pandey, R. U., Garg, Y. K., & Bharat, A. (2013). Livability Perception in Residential Areas of India: Comparative analysis of Planners and Inhabitants Outlook. *ITPI Journal*, 10(2), 35-43.
- Pandey, R. U., & Garg, Y. K. (2012). Understanding Quality of Life through Livability in an Indian City. *ITPI Journal*, 9(1), 54-64.
- Pandey, R. U., Garg, Y. K., & Bharat, A. (2010). A Framework for Evaluating Residential Built Environment Performance for Livability. *ITPI Journal*, 7(4), 12-20.

List of Publications in Conference Proceedings

- “Analyzing impact of Socio-Economic and Demographic Factors on Livability Perception”, 62nd National Town and Country Planners Congress, Page No. 236-243, Jan -2014, along with Dr. Yogesh K Garg and Dr. Alka Bharat.
- “Necessity for Evaluating Livability in Residential Land Use for Sustainable Urban Development”, 59th National Town and Country Planners Congress, Jan -2011, Page No. 92-97, along with Dr. Yogesh K Garg and Dr. Alka Bharat.
- “Quantitative measurement for livability performance in upcoming cities of India” in BNCA International Conference on Healthy Cities: Perspective of Asian Concerns.3rd – 5th Feb 2011, Pune, Peer reviewed, Full length paper published in conference proceedings 2012, Page no.193-203 in comprehensive planning session ISBN 978-81-920642-2-2. Co-authored by Yogesh K Garg and Dr. Alka Bharat.

Invited Panelist/ Paper presentation /Chairing a Session in International Conferences

- Invited lecture on ‘Regional Planning Approach: Case Study - Coimbatore Regional Plan (2038)’ in a Tier II Training Workshop for Tamil Nadu Government Officials on ‘Landuse Planning’ co-organized by Indian Institute of Human Settlements (IIHS) and GIZ on February 27, 2019, at IIHS Bangalore.
- Chaired a parallel session on ‘Environmental impacts on peri-urban areas and Mechanisms for citizen participation and inter-agency coordination’ in 2nd Asian Regional Conference on Peri-Urbanization (ARCP)’ during 8-10 November, 2018 in University of Pusan, Busan, South Korea organized by Pusan National University, South Korea, Tongji University, China, and School of Planning and Architecture, Bhopal, India.
- As a panelist speaker in Session 3 on ‘Resilient Development Planning’ in “National Workshop on Climate Change and Disaster Resilience for Urban Children” organized by Gorakhpur Environmental Action Group (GEAG) in collaboration with School of Planning and Architecture, New Delhi, with the support of UNICEF, India on 22nd December 2017 in Hotel Eros, New Delhi.
- Invited lectures related to ‘Urban Ecology and Climate Change’ in the Certificate Course on Climate Change (C4) conducted by MP State Knowledge Management Centre on Climate Change 20th September 2018, 14th January 2019 and 15th March 2019 at EPCO (Environmental Planning and Coordination Organization), Government of Madhya Pradesh.
- Invited for contribution in an inception workshop for kick starting revision of State Action Plan on Climate Change during convened on 05-06 February 2019 at EPCO Bhopal.
- Invited presentation on “Exploring Linkages between Peri-Urban Ecosystem and Urban Resilience- A Case of Bhopal City”, at Regional Conference on Peri-Urban Ecosystem for Enhancing Urban Resilience organized by Gorakhpur Environmental Action Group from September 18-19, 2017, in New Delhi, India.
- External member of a design competition committee for the selection of an Architect on July 27, 2017 for designing building premises of SBI officers in Gwalior.
- Invited talk on ‘Green Buildings’ by Institute of Environment Studies, Government of Madhya Pradesh for Post Graduate Diploma in Environment Management (PGDEM)

course conducted in collaboration with IGNOU on July 25, 2012, August 06, 2012 and September 28, 2013.

- Invited as an external expert for the selection of visiting faculty in the department of Architecture in Government Women's polytechnic College Bhopal on July 13, 2012, and July 12, 2017.
- External examiners for thesis and Studio exercises of Masters' and Bachelor programme in Institutes like: CEPT Ahmedabad; SPA Vijayawada and MANIT Bhopal.

Papers presented in International Conferences

- Presented a paper titled 'Assessing Impact of Urbanization on Peri-urban Ecosystems for Informed Decisions through cases of Indian Cities' in 2nd Asian Regional Conference on Peri-Urbanization (ARCP) during 8-10 November, 2018 in University of Pusan, Busan, South Korea organized by Pusan National University, South Korea, Tongji University, China, and School of Planning and Architecture, Bhopal, India.
- Presented a paper titled 'Assessing Climate Change Impact on Cultural Ecosystem Services: A case of Riverine Ecosystem in Ujjain, India', at the tenth International Conference on 'Climate Change: Impacts and Responses' organized by Common Ground Research Networks in University of California, Berkeley from 20th to 21st April 2018.
- Presented a paper titled "exploring linkages between sustainable consumption and prevailing green practices in reuse and recycling of waste: a case of Bhopal city in India", at Global Cleaner Production and Sustainable Consumption Conference organized by Elsevier from November 1-4, 2015 in Sitges, Barcelona.
- Presented a paper on "Sound Material Cycle Society: A Case of Bhopal City" on 2nd December 2013 in an International workshop on Sustainable Cities: Generating Climate Co-Benefits in Urban Areas organized by School of Planning and Architecture, Bhopal, with United Nations University, Tokyo, Japan, Kyoto University, Japan and Asia Pacific Network for Global Change Research
- Presented a paper titled "Planning of Residential Areas: Dissonance in Perspective of Planners and Residents", at Asia Pacific Network for Housing Research Conference 2013 held during 20-22 August 2013 in Kuala Lumpur, Malaysia with Dr. Yogesh K Garg
- Presented a paper on "SMC Vision and Project progress status in India" on 24th September 2011 in an International workshop on Sustainable Futures: A Vision for Bhopal organized by School of Planning and Architecture, Bhopal, with United Nations University, Tokyo, Japan and Asia Pacific Network for Global Change Research International Journal on Emerging Technologies.

9. Research and Consultancy

Research

- Part of a team of an International Project BReUCom (Building Resilient Urban Communities) funded under the EU Erasmus+ Program in the field of Capacity Building in Higher Education with partners from Austria, Netherlands and India. SPA Bhopal is an active part of the academic consortium, and the leader of the Case Studies Work Package (WP2).
- Part of a team working on project of MHRD, Government of India under Design Innovations Center (DIC) with a thrust on "Shelter for All" since December 2015.
- Leading member of core research team of APN Funded UNU-ISP multinational research project "Advancing Locally Based Green Practices to realize establishment of Sound Material Cycle Society in Asian Cities" from June 2011- February 2014.

Consultancy

- Part of a team for a project 'Gram panchayat Spatial Development Plan- Bilkisganj and Murwas Village, Madhya Pradesh' undertaken by SPA Bhopal for the Ministry of Panchayat Raj (MOPR), Government of India from June 2020 to December 2020.

- Principle Investigator of consultancy project) funded by Madhya Pradesh Clean Development Mechanism Agency on “Environmental Planning for Climate Informed Smart Cities of Madhya Pradesh” awarded in December 2016.
- Part of a team on ongoing consultancy project of HSMI, HUDCO on “A Study to develop appropriate Housing Design Alternatives for the Geo – Climatic Region covering the States of Madhya Pradesh, Chhattisgarh and Inland Maharashtra” since October 2016
- Part of a team as an Environmental Planner for a consultancy project “Preparation and Review of Urban Development Plan for Samdrupjonkhar” undertaken as an institute consultancy for Department of Human Settlement, Ministry of Works and Development, Royal Government of Bhutan. Dec’ 2012 to June 2013

Journal Editor

- Edited 13th issue of “SPANDREL” an International Journal of School of Planning and Architecture, Bhopal, India: New Dimensions in Research of Environments for Living (ISSN 2231-4601) having a theme of ‘Water Sensitive Development’.

10. Knowledge Networks/Workshops/ Conferences

- Associated with Urban Resilience Unit of NIUA (National Institute of Urban Affairs) as a member of steering committee in building up the knowledge network platform for capacity building in the field of Urban Resilience.
- Coordinated three workshops (March 9-14, 2015) and one day conference (August 08, 2015) on ‘Sustainable Urban Habitat’ with a topical theme of Green infrastructure, Green Transport and Green Building funded by Madhya Pradesh Clean Development Mechanism Agency.
- Coordinated ACCCRN training and capacity building programme as part of Knowledge sharing MoU of SPA Bhopal with TARU Leading Edge with TARU Leading Edge on ‘Climate Informed Resilient and Smart Cities in State of Madhya Pradesh’. The pilot workshop was conducted on August 24, 2016, for students of SPA Bhopal. Two workshops were conducted for the officials of Government department, citizen forum, academicians and consultants in Bhopal on October 06, 2016 followed by Jabalpur on November 29, 2016.
- Co-coordinated an international Workshop on Sustainable Cities: Generating Climate Co-benefits in Urban Areas held on December 02-03, 2013 organized by SPA Bhopal in collaboration with UNU-IAS, APN, Kyoto University and UNU-ISP.
- Coordinated Integral Studio on ‘Smart Urbanism: Imagining the futures of Bhopal’ for students of SPA Bhopal And MANIT Bhopal in collaboration with Bhopal Smart City Cell and ITPI, M.P. Chapter conducted during JULY 19 – 25, 2017.
- Coordinated Co-ordinated 2 days Training Programme on “Implementation of Master Plans” for MPVPS (Madhya Pradesh Vikas Pradhikaran Sangh) on July 02-03, 2012.

11. Short term Course and Training Programmes

Participation by Invitation

- Attended two-day Urban Nexus Training on 31st July-1st August, 2018 in New Delhi. The training is organized under the frame work of the GIZ “Integrated resource management in Asian Cities: Urban Nexus” project financed by the German Federal Ministry of Economic Cooperation and Development (BMZ) and implemented jointly with ICLEI South Asia.
- Attended one day consultative discussion ‘Bridging the Knowledge Gap on Air Quality Management in Indian Cities. City Consultation for Bhopal’ by Clean Air Asia’s in partnership with NIUA, ITPI, and the Smart City Development Corporation Bhopal on 9th August 2018 in Bhopal.
- The Second Meeting of the NPDRR (National Platform for Disaster Risk Reduction) with a theme ‘Disaster Risk Reduction for Sustainable Development: Making India Resilient by 2030’ conducted during May 16-17, 2017 at Vigyan Bhawan, New Delhi.

- GIAN (Global Initiative of Academic Network) Courses on “Scenario Analysis for Planners and Policy Makers” from July 25 – 29, 2016 and “Institutions, Economic Development and Industrial Upgrading” from December 14- 18, 2016 organized by SPA Bhopal
- UNCC: Learn (UN Climate Change Learning Partnership) Introductory one-month E-Learning Course on ‘Climate Change’
- Successfully completed an eight-week, e-Learning Course on “Introduction to Sustainable consumption and Production in Asia”, from 01 September 2014 – 24 October 2014 and awarded a fellowship by UNITAR (United Nations Institute for Training and Research) for the course.
- National workshop for capacity building in “Earthquake Risk Management” on 15-17 February, 2013 at Bhopal organized by National Disaster Management Division, Ministry of Home Affairs and MANIT Bhopal
- Short term training from 22nd– 26th Feb 2012 on Model Development with Cube Base and Voyager organized by SPA Bhopal
- Short term training programme from 20th – 24th June 2011 on Remote sensing and GIS applications in Planning organized by SPA Bhopal

12. Awards/Recognitions & Fellowships

- GATE (Graduate Aptitude Test in Engineering) Government of India for Masters Programme
- Research Fellowship Maulana Azad National Institute of Technology, Bhopal, India for PhD Programme
- Fellowship by United Nations Institute for Training and Research (UNITAR) for e-learning course “Introduction to Sustainable Consumption and Production in Asia”, 01 September – 24 October

13. No of thesis guided

- **Under Graduate** **12**
- **Post Graduate.** **24**
- **PhD** **4 (ongoing)**

Thesis Supervised: (PhD Level)

- Applicability of traditional ecological knowledge in conservation of urban wetlands - a case of wetlands of Assam (Ongoing)
- Framework for evaluating effectiveness of green infrastructure in mitigating urban heat island: a case of Madhya Pradesh (Ongoing)
- A socio – ecological system approach to conserve the coastal wetlands (Ongoing)
- Framework for assessing Sustainability in Urban Water Supply for Tier 2 Indian Cities

Thesis Supervised: (Post Graduate Level)

- Enhancing Community Resilience Against the Impacts of Receding Glaciers in Lidder Valley, Kashmir
- Ecosystem Valuation of Agricultural Land use Change
- Exploring the Possibilities of Coexistence with The Wildlife in Transitional Areas of Forests: A case of Chandrapur District
- Exploring Water Security Through Water-Food-Energy Nexus in Rural Settlements- A Case of Kurukshetra, Haryana
- Strategies for Conserving Eco functions of Aravalli Range.
- Inter-relation between Psychology Land-use and River Sustenance.
- Planning Strategies for Reclamation of Ravine Lands: The case of Chambal basin.
- Impact of Land Use Land cover change on ecosystem services in catchment area of Lake Pichola
- Enhancing resilience of Mining towns to water and air pollution, A case of Joda Municipality in Keonjhar district, Odisha
- Conservation of Integrated mangrove ecosystem, A case study of Bhitarkanika mangroves, Odisha
- Assessment of degradation and restoration of Riparian Zone: Case of Hoshangabad

- Integrating Cultural Ecosystem Services into Urban Planning: A case of Ujjain City
- Planning for coastal resilience to reduce impact of economic activities on coastal ecosystem: A case of eastern waterfront of Mumbai
- Measures for improving Urban Ecosystem Health – A case of Bhopal.
- Development Regulations for the Catchment area of an Urban Water Body: Upper Lake, Bhopal
- Harvesting Energy through Wastewater Management in Bhopal City
- Improving Resilience of the City through Green Infrastructure: A Case of Gwalior City
- Improving Environmental quality of the slum: Case study of Vijayawada, Andhra Pradesh
- Watershed Management Plan: Case of Bundelkhand region
- Improving Environmental quality through green infrastructure: A case of Raipur city
- Land Suitability along National Highway: A Case of Nagpur City
- Groundwater Management Through Spatial Analysis of Malihabad Tehsil: Lucknow District
- Redevelopment of Transforming Core Area of Raipur
- Real Estate: A resource for financing urban roads

14. Membership of professional bodies

- Registered with Council of Architects, India - CA/91/14119 since 1991
- Associate member of Institute of Town Planners, India- 94 / 108, since 1994