

BIODATA

DR. RIPU DAMAN SINGH

Associate Professor & Head

GZS School of Architecture & Planning

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Personal Details

Nationality India

Date of Birth 18th September, 1971

Marital Status Married

Language(s) English, Hindi, Punjabi

Interests Teaching, Research, Reading books, Travelling,

Research Interests

Architecture of Bhai Ram Singh, Sacred Sikh Architecture, Design for Energy Efficiency

Education

2025 Doctor of Philosophy (Ph.D.) from Jamia Millia Islamia, New Delhi
PhD Topic: A study of Bhai Ram Singh's work in the paradigm of Indo-Saracenic Architecture

2008. M. Arch in General Architecture

1994. Bachelors of Architecture (B.Arch.) from CET, Bathinda/ Punjabi University, Patiala

Achievements, Recognitions, Honours & Awards

2025. The Constructed Environment International Award for Excellence, The International Journal of the Constructed Environment Volume 18

Outstanding Academician, IIA Punjab Chapter

2022. Team member, SAAR project Chandigarh Smart City, NIUA, GoI from Jamia Millia Islamia, New Delhi

2021. A3 Teacher Award, A3 Foundation, Chandigarh

2020. GATE 2020 All India Rank 09

2016. Certificate of Appreciation guiding students for 2nd and 3rd prize in Birla White Yuva Ratna Awards

2015. Awarded for guided students for INSDAG design competition upto Final round

Appreciation letter for conducting National Conference, and Alumni Meet, GZSCCET, Bathinda

2014. Appreciation letter for performance as Dy. Dean (Academics)

2010. India Today Build Today award for guiding students, India Today Group (Build Today)

Professional Experience (Research and Teaching) since 1996 - 27 years

2021 - till date **Ph.D. Research Scholar** at Jamia Millia Islamia, New Delhi
2010 – Till date **Associate Professor**, GZS School of Architecture and Planning, MRSPTU, Bathinda
2007 – 2010 **Assistant Professor**, GZSCET, Bathinda
2002 – 2007 **Lecturer (Senior Scale)**, GZSCET, Bathinda
1996- 2002 **Lecturer**, GZSCET, Bathinda

Leadership and Administration

2020 - 2021 - **Estate Officer, MRSPTU, Bathinda**
2016 – 2019 **Head of Department, GZS School of Architecture & Planning, MRSPTU, Bathinda**
2016 – 2019 **Chairperson, Board of Studies, Architecture & Planning, MRSPTU, Bathinda**
2017 - 2019 **Chairperson, Board of Control, GZS School of Architecture & Planning, MRSPTU, Bathinda**

Architectural Design and Consulting Projects

2014-15 “Student Centre cum Open Air theatre” Design for GZS PTU Campus, Bathinda, PTU, Jalandhar (3.50 Crores / 18 months)
2009-2010 “Interior Design of Polytechnic Building and Landscape Proposal” for Shaheed Bhagat Singh College of Engg. & Tech., Ferozepur, SBSCET, Ferozepur (20 Lakhs / 6 months)
2005-2006 “Boundary wall, Chain link Fence Design for Deer Safari”, Beer Talab for District Forest Department, Bathinda District Forest Officer, Bathinda (15 Lakhs / 6 months)

Invited Expert, Affiliations/ Select Invited Expert Talks / Workshops

2023. **Delivered talk on “Bhai Ram Singh – A Creative genius” by Muktsar Dialogues, 3 December, 2023**
2022. **Delivered talk on Water in Sacred Sikh Architecture in Wednesdays for Water forum on 21.9.2022**
2020- 2016. **Member, Building Advisory Committee**, Central University of Punjab, Ghudda
Speaker on Theme “Meeting two ends - Heritage and Indigenous Construction Practices”
2019. in International Conference - ANGAN, New Delhi on 09 Sept. 2019. Understanding the key Architectural aspects of Energy Efficient Building Design
2018. Delivered lecture on “Energy Efficient Building Materials” in District level Workshop-cum Exhibition on Energy Efficient Building Materials at DC Complex, Fazilka on 9 Nov., 2018
Delivered expert lecture on “Influence of History on Interior Design”, School of Architecture, MMU, Ambala

- 2013.** Co-chaired Technical Session titled “Sustainable Buildings: Traditional Approach to Sustainability” in National Conference- ASPIRE 2013 at GZS PTU Campus, Bathinda on 11 Oct., 2013

Professional Associations:

Member, Building Advisory Committee, Central University of Punjab, Ghudda since 2016

Paper Setter with Punjab University Chandigarh, GNDU Amritsar, IKGPTU Kapurthala, MRSPTU

Bathinda, Chandigarh University Gharuan, MMU Ambala and MAU, Baddi

Publications

Research Papers

1. ***Deciphering the Underlying Geometry in the Buildings of Bhai Ram Singh: The Case of Khalsa College, Amritsar***, The International Journal of Architectonic, Spatial, and Environmental Design (**Scopus indexed**) doi:10.18848/2325-1662/CGP/v18i02/203-224
2. ***Understanding the Rich Traditional Craftsmanship of Punjab through the Architectural Works of Bhai Ram Singh***, JIIA 2023 December, Vol. 88, Issue 12, ISSN: 0019-4913
3. ***Decision-Making Model for Energy Efficiency with Building Envelope Design***, ECS Transactions, 107 (1), SCImago Journal Rank (SJR) 0.206 pp10449-10461, ISSN- 1938-5862, 2022 (Jatinder Kaur, Ripu Daman Singh)
4. ***Benefits of Retrofitting- Greening Existing Buildings***, ABACUS BIT, Mesra, Monsoon Edition, ISSN: 0973-8339, Vol. 6, No. 2/ 39-44/ 2011 (Jatinder Kaur, Ripu Daman Singh)
5. ***The Emergence of New Architectural Tapestry in Sacred Sikh Architecture***, Journal of Indian Institute of Architects (JIIA, Mumbai), ISSN: 0019-4913 Vol. 79, Issue 11/ 57-60/ 2014 (Ripu Daman Singh, Jatinder Kaur)

Book Chapters

1. ***Tracing the origins of Indo-Saracenic Architecture***, The Majesty of Islamic Art and Architecture: History and Contemporary reflections, COPAL Publishing Group, ISBN: 978-93-83419-72-2, 2024
2. ***Tracing the journey of Bhai Ram Singh in Indo-Saracenic Architectural Style***, A Springer book series: Advances in Science, Technology & Innovation (under publication), 2024
3. ***DOORS: Turning Spaces to Places***, Doorz ‘n’ Doorz, IMRF Publishing House, ISBN: 978-93-90146-46-8, 2022
4. ***“Understanding Built Environment Investigating the Architectural Manifestations of Path and Place in Sacred Sikh Architecture”***, Singapore, Springer ISBN: 978-981-10-2138- 1, 37-46 (Ripu Daman Singh, Jatinder Kaur, Dr. Prabhjot Kaur)
5. ***“Green Cities Zero Cost measures for making Existing Buildings Sustainable”***, Macmillan Publishers India Ltd., ISBN 023-033-241-2, 141-149 (Jatinder Kaur, Ripu Daman Singh, Pankaj Chhabra)

Conference Papers

1. Pinjra Work: An Embodiment of Traditional Craft in the Works of Architect Bhai Ram Singh, International Conference: Managing Heritage as an Asset to Prosperity MHAP 2024, 28 March 2024
2. Exploration of the artistic and architectural legacy of works of Bhai Ram Singh, National Seminar on Heritage changes: Creating a resilient Agenda 28 November 2023
3. Tracing the Journey of Bhai Ram Singh in Indo-Saracenic Architectural Style, International Conference on Conservation of Architectural Heritage CAH 2023, IEREK and University of Portsmouth, UK, 12 September 2023
4. Etymological study of "Saracenic" in Indian Architectural Historiography, National Conference on Legacy of Islamic Architecture, 26.2.2023, Aligarh Muslim University, Aligarh
5. Pandit Baijna High School, Amritsar, Punjab – A case of forgotten built heritage, ICOMOS India Annual Scientific Symposium 2022-2023, 25.2.2023, RV College of Architecture, Bangalore
6. People as Anchors of Placemaking: A Regeneration strategy for Urban Villages of Delhi, International Research Symposium on Urban Villages, 21.5.2022 and 22.5.2022, FOA&E JMI, NIUA, COA, Thammasat university Bangkok and UVCT
7. Decision making model for Energy Efficiency with Building Envelope Design, National Conference, 12-13 November, 2021, Chitkara University, Punjab
8. Singh R.D., Kaur P., Jha J.N., Investigating the Architectural Manifestations of Path and Place in Sacred Sikh Architecture, in National Conference on Sustainable built environment, IIT, Roorkee, 10-12 April, 2015
9. Singh R.D. & Kaur J. (2015). Investigating the typologies of Sacred Sikh architecture based on character and function, in National Conference on LDCEE, 15-16 Oct., 2015
10. Singh R.D., Kaur P., Jha J.N., (2014). Investigating the typologies of Sacred Sikh architecture based on character and function, in Neo- International conference on Habitable Environments, LPU, Punjab, 31 Oct. -2 Nov., 2014, ISBN: 978-1-63415- 470-3
11. Kaur J., Singh R.D., Jha J.N. & Aggarwal S.K. (2014). Striving for High Performance in Commercial Buildings: An Overview of Energy Conservation Measures, in National Conference and Workshop on Geotechnical Engineering Practice and Sustainable Infrastructure Development (GEPSID-2014), October 10 – 12, 2014, ISBN: 978-93-82052-05-0
12. Singh R.D., Kaur J. & Kaur P. (2013). Benefits of Solar Thermal Technology for Community Cooking in Sacred buildings with special reference to Gurdwaras, in
13. National Conference- ASPIRE, GZSPTU Campus, Bathinda, 10-11 October, 2013, ISBN: 978-93-82880-68-4
14. Vij M., Singh R.D. & Kaur J. (2013). Energy Efficiency in Healthcare sector- Issues and Challenges, in National Conference- ASPIRE, GZSPTU Campus, Bathinda, 10-11 October, 2013, ISBN: 978-93-82880-68-4
15. Kaur J. & Singh R.D. (2013). Inclusive Design approach for enhanced Energy efficiency – An insight into Energy Conservation Codes, in National Conference- ASPIRE, GZSPTU Campus, Bathinda, 10-11 October, 2013, ISBN: 978-93-82880-68- 4
16. Kaur J. & Singh R.D. (2013). Climate Responsive Building Design using Efficient Building Form, Orientation and Passive Techniques, in National Conference on "Geotechnical & Geo-environmental Aspects of Wastes and their utilization in Infrastructure Projects", Civil Engineering Department, GNDEC, Ludhiana, 15-16 February, 2013, ISBN: 978-81-923777-8-0
17. Singh R.D. & Kaur J. (2012). Economic Benefits of Energy Conservation in Green Buildings- A case study of T-Zed Housing, in National Conference on "Latest Developments in Pollution Control and Prevention Techniques", Civil Engineering Department, NITTTR Chandigarh, 21-22 November, 2012
18. Singh R.D. & Kaur J. (2012). Adopting Biomimicry as an approach towards Sustainable Building

Design, in Innovative Challenges in Civil Engineering, PTU GZS Campus, Bathinda, 15-16 March, 2012, ISBN 978-93-81583-28-9

19. Kaur J., Singh R.D. & Garg H. (2010). Energy Conservation through Efficient Building Envelope Design, in National Conference on Advancements and Futuristic trends in Mechanical and Materials Engineering, PTU, Jalandhar
20. Understanding Building Envelope Design- Beyond the realm of Energy Conservation Building Code National, 10-11 April, 2015, MMU Ambala
21. Envelope Performance Factor – A Key Indicator of an Energy Efficient Building Envelope National Conference, 10-12 April, 2015, IIT, Roorkee
22. Energy Conservation Measures for achieving High Performance in Commercial Buildings, National Conference, 15-16 Oct., 2015, GZSCCET, MRSPTU, Bathinda
23. Emerging Role of Building Envelope Design in Energy Efficiency- An insight into the Rating Systems of India International 31 Oct. -2 Nov., 2014 LPU, Jalandhar
24. Striving for High Performance in Commercial Buildings: An Overview of Energy Conservation Measures, National Conference, 11 – 12 October, 2014, GNDEC, Ludhiana
25. Benefits of Solar Thermal Technology for Community Cooking in Sacred buildings with special reference to Gurdwaras, National Conference, 10-11 October, 2013, GZSPTU Campus, Bathinda
26. Energy Efficiency in Healthcare sector- Issues and Challenges, National Conference, 10-11 October, 2013, GZSPTU Campus, Bathinda
27. Inclusive Design approach for enhanced Energy efficiency – An insight into Energy Conservation Codes, National Conference, 10-11 October, 2013, GZSPTU Campus, Bathinda
28. Embodied energy of Building materials, National Conference, 10-11 October, 2013 GZSPTU Campus, Bathinda
29. Climate Responsive Building Design using Efficient Building Form, Orientation and Passive Techniques, National Conference, 15-16 February, 2013, Civil Engineering Department, GNDEC, Ludhiana
30. Economic Benefits of Energy Conservation in Green Buildings- A case study of T-Zed Housing, National Conference, 21-22 November, 2012, NITTTR Chandigarh
31. Building Energy Design- A Challenge for Architects and Engineers, National Conference, 15- 16 March, 2012, PTU GZS Campus, Bathinda
32. Adopting Biomimicry as an approach towards Sustainable Building Design, National Conference, 15-16 March, 2012, PTU GZS Campus, Bathinda
33. Energy Conservation through Efficient Building Envelope Design, National Conference, 7-8 October 2011 PTU, Jalandhar