

CURRICULLUM VITAE

Name Prof. Nand Kumar
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Post with institute address **Professor**
 Department of Architecture & Planning
 Malaviya National Institute of Technology
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| Degree | CGPA/Percentage | Year | Institution |
|----------|-----------------|------|---|
| Ph. D | | 2016 | Indian Institute of Technology Roorkee |
| M. Plan. | 8.4 | 2006 | Indian Institute of Technology Roorkee |
| B. Arch. | 69 % | 1994 | Malaviya Regional Engineering College, Jaipur |

1. Professional Experience:

| Address of the Office/ Organization/ Institution | Post Held | Pay Scale | Duration | |
|--|-----------------------|-----------------------|-------------|-----------|
| | | | From (Date) | To (Date) |
| MNIT Jaipur | Professor | Level - 14 A | 12/03/26 | Till Date |
| MNIT Jaipur | Associate Professor | 9500 13A2 | 14/05/18 | 11/03/26 |
| MNIT Jaipur | Assistant Professor | 15600-39100 | 19/01/14 | 13/05/18 |
| MNIT Jaipur | Lecturer Senior scale | 10000-325-15200 | 01/07/05 | 18/01/14 |
| MREC Jaipur | Lecturer | 2200-75-2800-100-4000 | 04/03/99 | 30/06/05 |

2. Administrative Responsibilities

| Sl. No | Responsibilities | Duration | |
|--------|---|------------|------------|
| | | From | To |
| 1. | Associate Dean Architecture | 16-07-2024 | Till date |
| 2. | Faculty In-Charge Procurement of Library Resource | 20-12-2022 | Till date |
| 3. | Convenor of Parking Committee for Panna Block | 14-08-2024 | 09-09-2024 |
| 4. | DPGC member | 25-07-2024 | 10-09-2024 |
| 5. | Department Infrastructure Coordinator | 25-07-2024 | 10-09-2024 |
| 6. | Convenor of Physical Verification Committee | 30-04-2024 | 24-07-2024 |
| 7. | Convenor of Physical Verification Committee | 01-05-2023 | 29-04-2024 |
| 8. | Member of Student Welfare Committee | 20-12-2022 | 13-01-2023 |
| 9. | Library Coordinator | 03-08-2022 | 15-06-2024 |
| 10. | Associate Dean Alumni Affairs | 17-07-2022 | 15-07-2024 |
| 11. | DSC Member | 07-06-2022 | 31-07-2023 |
| 12. | Departmental Space Committee Member | 03-06-2022 | 24-07-2024 |
| 13. | Member of Net Zero Energy Campus Committee | 31-05-2022 | 13-01-2023 |
| 14. | Library Coordinator for Procurement of Library Resources | 05-03-2022 | 19-12-2022 |
| 15. | Proctor | 28-01-2022 | 13-01-2023 |
| 16. | UG Practical Coordinator | 11-12-2021 | 30-06-2022 |
| 17. | Member of Committee to Examine Modified Assured Career Progression Scheme (MACPS) | 08-10-2021 | 07-10-2022 |
| 18. | Lab Coordinator System Dynamics | 06-10-2021 | 30-06-2022 |
| 19. | DSC Member | 23-08-2021 | 24-08-2024 |
| 20. | Member of DSC | 05-07-2021 | 04-07-2022 |
| 21. | PG Dissertation Coordinator | 01-07-2021 | 30-06-2022 |
| 22. | Course Revision Committee of NEP Member | 18-12-2020 | 17-12-2021 |
| 23. | New UG and PG Programme Committee Member | 18-12-2020 | 17-12-2021 |

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| 24. | Hostel Maintenance Warden | 01-09-2020 | 31-12-2020 |
| 25. | Lab Coordinator of Climatology | 24-07-2020 | 23-07-2021 |
| 26. | Lab Coordinator of System Dynamics | 24-07-2020 | 24-07-2021 |
| 27. | Member of DUGC and DPGC Committee | 16-07-2020 | 09-01-2023 |
| 28. | Member of Campus Planning and Master Plan Committee | 29-06-2020 | 28-06- 2021 |
| 29. | Head Department of Architecture and Planning | 11-06-2020 | 11-06-2022 |
| 30. | Member of Committee to Prepare the Code of Conduct for Students | 06-11-2019 | 05-11-2020 |
| 31. | Warden of Aurobindo Hostel | 06-11-2019 | 31-08-2020 |
| 32. | DSC Member | 16-11-2018 | 15-11-2019 |
| 33. | Faculty in-Charge of Educational Tour | 13-09-2018 | 01-04-2019 |
| 34. | Member of Committee to Prepare the PG Curriculum Revision | 24-01-2018 | 23- 01-2019 |

3. Registration and Membership of Professional Bodies

- i. Council of Architecture- 1996/20369
- ii. Institute of Town Planners, India- 2009/078
- iii. Indian Institute of Architects, India- 2000/A-13009
- iv. ASHRAE, BOG member of Rajasthan chapter- 2022

4. Consultancy Projects:

| S. No. | Title of the Project | Role | Funding Agency | Consultancy fee (Rs) | Status |
|--------|--|------|---------------------------------|----------------------|---------|
| 1. | Group Housing Scheme Todi Nagar, Sikar | PI | Sikar Nagar Parishad | 1,75,00,000/- | Ongoing |
| 2. | Preparation of Structural and Architectural Work of Residential Apartment for MNIT Employee, Sector 26, Pratap Nagar, Jaipur | PI | Rajasthan Housing Board, Jaipur | 23,93,000/- | Ongoing |
| 3. | Preparation of Sikar Master Plan 2041 | PI | Nagar Parishad, Sikar | 29,503,344/- | Ongoing |

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| 4. | Preparation of Zonal Development Plan of A, B, C, D, and E Zones of Bhilwara City | PI | UIT, Bhilwara, Raj. | 4,02,84,100/- | Ongoing |
| 5. | Vetting of Structural Drawing for Rain Basera Construction Work at in Takhatgarh Area | PI | Municipal Board, Pali | 1,18,000/- | Completed |
| 6. | Checking and Vetting of Drawing and Design o WTP- "Water Supply Scheme for Augumentation of UWSS Hanumangarh, Tibbi, Pilibanga, Sangria, Nohar and Rawaatsar | PI | M/S SBCC-GRG - Hanumangarh | 1,84,745/- | Completed |
| 7. | Planning, Landscaping and Design of Raja Ji ka Park, Hanumangarh | PI | Nagar Parishad Hanumangarh | 4,50,000/- | Completed |
| 8. | Preparation of Zonal Development Plan of Sri Ganganagar City | PI | UIT, Sriganga Nagar, Raj. | 1,40,47,800/- | Completed |
| 9. | Vetting of DPR of Nehru Bal Bhawan, Sikar | PI | Nagar Parishad, Sikar | 3,64,500/- | Completed |
| 10. | Checking and Vetting of EPC Mode Bid Document for the Work of Construction of RHB Greenwood Mansions and Shopping Arcade at Sector 28 Pratap Nagar, Sanganer Jaipur | PI | Rajasthan Housing Board, Jaipur | 6,37,874/- | Completed |
| 11. | Entry Gate, Sikar | PI | Nagar Parishad, Sikar | 3,00,000/- | Completed |
| 12. | Checking and Vetting of DPR A P J Abdul Kalam Science Park in Nagar Parishad Sikar | PI | Nagar Parishad, Sikar | 3,46,275/- | Completed |
| 13. | Checking and Vetting of EPC Mode Bid Document for the Work of Construction Work of CLUB 21, NRI Colony, Pratap Nagar, Jaipur | PI | Rajasthan Housing Board, Jaipur | 4,19,175/- | Completed |
| 14. | Vetting of DPR for Waste Water, Rainwater and Drainage | PI | Nagar Parishad, | 4,50,000/- | Completed |

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| | System of Deedwana City | | Deedwana | | |
| 15. | Central Park near RoB Rawatsar Road, Hanumangarh | PI | Nagar Parishad, Hanumangarh | 2,50,000/- | Completed |
| 16. | Provide Consultancy for Design and Drawing for Construction of Chemical Laboratory at GWD Jaipur | PI | Ground Water Department, Jaipur | 1,69,490/- | Completed |
| 17. | Preparation of Zonal Development Plan of Churu City | PI | Nagar Parishad, Churu, Raj. | 14,017,600/- | Completed |
| 18. | Preparation of Zonal Development Plan of Sikar City | PI | Nagar Parishad, Sikar, Raj. | 3,58,40,000/- | Completed |
| 19. | Preparation of Zonal Development Plan of Sujangarh City | PI | Nagar Parishad Sujangarh, Rajasthan | 1,45,80,493/- | Completed |
| 20. | Preparation of Zonal Master Plan of ESZ Nahargarh Wildlife, Jaipur | PI | DFO, Nahargarh, Jaipur | 3,220,399/- | Completed |
| 21. | DPR Preparation for Development of Ecological Park at Laxmangarh, Sikar | PI | DFO, Sikar, Rajasthan | 1,685,000/- | Completed |
| 22. | Vetting of DPR for Tourist Interpretation Cum Cultural Center at Nathdwara, Rajsamand | PI | Nagar Palika, Nathdwara, | 2,75,000/- | Completed |
| 23. | Checking and Vetting of EPC Bid Documents for the Work of Finishing Works And Maintenance of all these Works in Complete Campus of Vidhyayak Aawas Project | PI | Rajasthan Housing Board, Jaipur | 5,00,000/- | Completed |
| 24. | Technical Vetting of In-House Prepared Architectural and Structural Designs and Drawings for the Construction of Oil Executive Residential Complex - | PI | Oil India Ltd. Jodhpur, Rajasthan | 4,40,000/- | Completed |

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| | Jodhpur | | | | |
| 25. | Vetting of Structural Drawing of Proposed Auditorium in Sikar | PI | Nagar Parishad, Sikar | 3,00,000/- | Completed |
| 26. | Detailed Project Report Preparation for Watershed Development Using Remote Sensing and GIS | CO-PI | WDSC , Govt of Rajasthan | 7,00,000/- | Approved |
| 27. | Preparation of DPR for Stormwater drainage of urban area in Sikar City and Reuse plan for treated wastewater | CO-PI | Municipal Corporation, Sikar | 4,07,10,000 /- | Ongoing |
| 28. | Consultancy services for investigating the hydraulic efficacy of an existing pipeline for conveying treated wastewater and preparation of DPR for the additional pipeline from Padampur bypass circle to Kodyawali Puli | CO-PI | Urban Improvement Trust , Sri Ganganagar | 5,90,000/- | Completed |
| 29. | Third Party quality inspection and assurance | CO-PI | Rajasthan Housing Board | 16,52,000/- | Completed |
| 30. | Third Party Inspection and Verification of Legacy waste remediation at Nani Beed, Sikar | CO-PI | Municipal council Sikar | 3,52,800/- | Completed |
| 31. | Preparation of PPR for Development of Ropeway at Trinetra Ganesh Ji Temple, Sawaimadhapur and Rameshwar Mahadeo Temple, Bundi | CO-PI | Department of Tourism , Govt. of Rajasthan | 10,00,000/- | Completed |
| 32. | Third Party Quality Assurance of IAS Flats. | CO-PI | Rajasthan Housing Board, Jaipur | 3,54,000/- | Completed |

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| 33. | Checking & Vetting of EPC Mode Bid Document | CO-PI | Rajasthan Housing Board, Jaipur | 2,32,000/- | Completed |
| 34. | Appointment of TPI for Construction of MLA Flats at Vidhayak Nagar (West). | CO-PI | Rajasthan Housing Board, Jaipur | 3,54,000/- | Completed |
| 35. | Checking & Vetting of the EPC Mode Bid Document & Process for the Work of Construction of MLA Flats at Vidhayak Nagar [West], Jyotinagar, Jaipur | CO-PI | Rajasthan Housing Board, Jaipur | 9,28,000/- | Completed |
| 36. | Third Party inspection of 1000 MM Dia. RCC NP-4 Pipe line | CO-PI | Department of Tourism, Govt. of Rajasthan | 3,54,000/- | Completed |
| 37. | Third party quality inspection of town hall at Sikar | CO-PI | Municipal Council Sikar | 4,13,000/- | Completed |
| 38. | Third party site visit to coaching hub project | CO-PI | Rajasthan Housing Board | 2,27,000/- | Completed |
| 39. | Preparation of Techno-Economic Feasibility Report for Proposed Khelgaon-Sports Village – Project at Indira Gandhi Nagar Extension Scheme, Jaipur. | CO-PI | Rajasthan Housing Board, Jaipur | 11,79,656/- | Completed |
| 40. | Redesigning, Remodeling and Refurbishment of the Heritage Train Palace on Wheel. | CO-PI | Rajasthan Housing Board, Jaipur | 5,90,000/- | Completed |
| 41. | Provide Consultancy Source for Design of Bus Stand at Deedwana | CO-PI | Nagar Parishad, Deedwana | 17,70,000/- | Completed |
| 42. | Vetting of Architectural Design Proposal and Financial Viability Report for Setting Up of Coaching Hub in Sector 16 Pratap Nagar Sanganer Jaipur | CO-PI | Rajasthan Housing Board, Jaipur | 4,64,000/- | Completed |

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| 43. | Drafting of Lease Document for Club 21 at Raj Angan Yojana, NRI Colony, Pratap Nagar, Sanganer Sector 24, Jaipur | CO-PI | Rajasthan Housing Board, Jaipur | 2,36,000/- | Completed |
| 44. | Proof Checking of Design Drawing of RES & LIG Houses in Sector 28, Pratap Nagar Jaipur | CO-PI | Rajasthan Housing Board, Jaipur | 8,38,596/- | Completed |
| 45. | Preparation of Initial Environmental Examination (IEE) Report including Environmental Management Plan for the Project of Development of Residential Colony for Affected Persons of Village Pur, Bhilwara | CO-PI | Urban Improvement Trust, Bhilwara | 6,90,000/- | Completed |
| 46. | Checking and Vetting of EPC Mode Bid Document for the Work of Constitutional Club at Vidhayak Nagar (East) Jyoti Nagar Jaipur | CO-PI | Rajasthan Housing Board, Jaipur | 4,64,000/- | Completed |

5. Research Projects:

| S. No. | Title of the Project | Role | Funding Agency | Sanctioned Amount (Rs) | Status |
|--------|--|-------------|----------------------------|------------------------|----------|
| 1. | AMRUT Funded Centre of Urban Planning for Capacity Building | Team Leader | MoHUA, New Delhi | 10,00,00,000/- | Ongoing |
| 2. | Creation of Sponge City, Jaipur | PI | AMRUT Center, MNIT Jaipur | 32,61,600/- | Proposed |
| 3. | Preparation of Heritage Impact Assessment (HIA) Report for Jaipur Walled City Area & Monuments | PI | AMRUT Center, MNIT Jaipur | 1,550,000/- | Proposed |
| 4. | Research study for design, drawing and beautification work of Gol circle, Hanumangarh | PI | Nagar Parishad Hanumangarh | 13,50,000/- | Ongoing |

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| 5. | GIS based Master Plan for Class II and Class III towns of Uttarakhand | PI | Town and Country Planning Department, Govt. of Uttarakhand | 2,02,00,000 /- | Ongoing |
| 6. | Crowd Management Plan for Khatu Shyamji | PI | Nagar Palika Khatu | 66,00,000/- | Ongoing |
| 7. | Proposal on Preparation of Village Master Plan | PI | AMRUT Center, MNIT Jaipur | 15,65,000/- | Ongoing |
| 8. | Documentation of Ancient Planning Principles and Concepts: Jaisalmer, Bikaner, Shekhawati, Ajmer & Pushkar, Jodhpur, Udaipur | PI | AMRUT Center, MNIT Jaipur | 18,50,000/- (For each Town) | Ongoing |
| 9. | TOD Policy, Identification of zone and TOD Plan | PI | AMRUT Center, MNIT Jaipur | 54,95,840/- | Ongoing |
| 10. | Development of Greywater Disposal Site in Surajgarh | PI | Nagar Palika, Surajgarh | 5,16,000/- | Ongoing |
| 11. | Revitalization of Government Hostel/Hathroi Garhi/Gopal Badi Area, Jaipur | PI | AMRUT Center, MNIT Jaipur | 46,36,300/- | Ongoing |
| 12. | Integrated Urban and Water Planning for Nawalgarh District | PI | AMRUT Center, MNIT Jaipur | 5,48,0800/- | Ongoing |
| 13. | Identifying Street Level Barriers to Mobility | PI | AMRUT Center, MNIT Jaipur | 9,50,000/- | Ongoing |
| 14. | Estimating the spatial distribution of population and economic activity in Jaipur | PI | AMRUT Center, MNIT Jaipur | 6,75,000/- | Ongoing |
| 15. | Estimating Public Transport Accessibility in Jaipur | PI | AMRUT Center, MNIT Jaipur | 9,50,000/- | Ongoing |
| 16. | Study on Ease of Doing Business (EoDB) for Rajasthan State | PI | AMRUT Center, MNIT Jaipur | 14,04,320/- | Ongoing |
| 17. | Neighborhood Improvement Scheme: Bapu Nagar | PI | Jaipur Nagar Nigam Greater & AMRUT Centre MNIT Jaipur | 39,42,400/- | Ongoing |

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| 18. | Integrated Multi Modal Transportation System in Jaipur City | PI | AMRUT Center, MNIT Jaipur | 56,90,400/- | Ongoing |
| 19. | A Pathway for Net Zero Building Design in Jaipur City | PI | AMRUT Center, MNIT Jaipur | 73,48,000/- | Ongoing |
| 20. | Design for Bharat | PI | Ministry of Youth Affairs & Sports - New Delhi | 2,50,000/- | Completed |
| 21. | Effectiveness of DAY-NULM: Challenges, Opportunities & Impact on Urban Poverty Alleviation & Livelihood Enhancement | PI | MoHUA, New Delhi | 18,08,268/- | Completed |
| 22. | Assessing the Entrepreneurial Impact of the PM SVANidhi Scheme on Street Vendors in India: A Comprehensive Evaluation | PI | MoHUA, New Delhi | 18,08,268/- | Completed |
| 23. | Documentation of Ancient Planning Principles and Concepts of Jaipur city | PI | MoHUA, New Delhi | 25,22,835/- | Completed |
| 24. | Research Study of Udaipur Smart City Infrastructure Projects of Under SAAR Compendium 2.0 | PI | Smart city limited, Udaipur | 4,80,000/- | Completed |
| 25. | Research Study of Udaipur Smart City Planning and Design Projects under SAAR Compendium 2.0 | PI | Smart city limited, Udaipur | 6,60,000/- | Completed |
| 26. | Study/ Case study of Kota Smart City Projects under SAAR Compendium 2.0. | PI | Kota Smart City Ltd. Kota | 4,80,000/- | Completed |
| 27. | Economic Impact on Real Estate of Area Based Development (ABD) areas due to the development undertaken through the Smart Cities Mission | PI | MoHUA | 6,00,000/- | Completed |
| 28. | Preparation of District Environmental Management Plan for Sikar | PI | DFO, Sikar | 9,96,000/- | Completed |

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| 29. | Preparation of District Environmental Management Plan for Hanumangarh | PI | DFO, Hanumangarh | 9,96,000/- | Completed |
| 30. | Preparation of District Environmental Management Plan, Alwar | PI | DFO, Alwar | 9,96,000/- | Completed |
| 31. | Mission Amrit Sarovar - Jal Dharovar Sanrakshan | PI | MoHUA | 2,00,000/- | Completed |
| 32. | Smart Cities & Academia Towards Action & Research. | PI | MoHUA | 1,00,000/- | Completed |
| 33. | Mapping of Urban Heat Islands and Impact Assessment of Mitigation Strategies | CO-PI | AMRUT Centre | 59,36,520/- | Ongoing |
| 34. | Comprehensive Cost Analysis of Water Supply Systems in India | CO-PI | AMRUT Centre | 28,51,840/- | Ongoing |
| 35. | Multi-Hazard Risk Assessment for Bhiwadi City | CO-PI | AMRUT Centre | 29,42,560/- | Ongoing |
| 36. | Benchmarking of Wastewater Technologies in India using Multi-Criteria Decision Making for Sustainable Operations | CO-PI | AMRUT Centre | 10,10,640/- | Ongoing |
| 37. | Assessing BIPV integration impact on energy, thermal performance, scalability for a locality | CO-PI | AMRUT Centre | 8,96,040/- | Ongoing |
| 38. | Development of AI-Based Tool for Illegal Waste Dumping and Construction Site Identification | CO-PI | AMRUT Centre | 5,47,360/- | Ongoing |
| 39. | CityGen-Centric Digital Twin for Next Generation Smart City | CO-PI | AMRUT Centre | 67,38,240/- | Ongoing |
| 40. | Optimizing Waste Handling in Udaipur: Analyzing Waste Streams, Innovative Treatment Methods, and reducing GHG potential | CO-PI | Udaipur Smart City Ltd | 15,00,000/- | Ongoing |
| 41. | Enhancing Employee Well Being and Happiness at Ananta Institute of Medical Science and Research Centre | CO-PI | Medical College Ananta | 5,04,000/- | Completed |
| 42. | Study of requirements for | CO-PI | Bureau of | 2,31,120/- | Completed |

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| | street and public facility cleaning services | | Indian Standards | | |
| 43. | Resource recovery from municipal solid waste in Sujangarh municipality | CO-IP | Sujangarh Nagar Parishad | 4,85,000/- | Completed |
| 44. | Research Study for Identification of Potential & Scope of Renovation & Optimum Planning and Design of Renovation of Bhagat Singh & Bharat Mata Chowk, in Hanumangarh | CO-PI | Rajasthan Housing Board Jaipur | 1,32,000/- | Completed |
| 45. | Study for Identification of Potential & Scope of Renovation and Optimum Planning & Design of Renovation of Collectorate Chowk, Lal Chowk, Karni Chowk, Ambedkar Chowk Junction & Chowk Near Govt Hospital, Chowk Near Bishnoi Dharmshala in Hanumangarh. | CO-PI | Rajasthan Housing Board Jaipur | 2,88,000/- | Completed |

SPARC Projects

| | | | | | |
|----|--|-------|--------------|---------------|----------|
| 1. | A Framework of Net-Zero Energy Building Design in Composite Climate of India | PI | SPARC | 77,28,000/- | On going |
| 2. | A Smart City Geospatial data catalogue representing complex urban mobility challenges in India | PI | SPARC-UKIERI | 40,50,000/- | Ongoing |
| 3. | Energy Nexus: Decolonial and Simulation-Driven Retrofitting Strategies for Energy Efficiency and Thermal Comfort in Chandigarh's Government Housing, Project | Co-PI | SPARC | 1,50,70,000/- | Ongoing |

6. Research Guidance

A. Ph.D. Thesis guidance

| S. No. | Thesis Title | Name of Student | Session of Registrar | Status | Role |
|---------------|---------------------|------------------------|-----------------------------|---------------|-------------|
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| Ph.D. Thesis Submitted | | | | | |
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| Ph.D. Thesis Awarded | | | | | |
| 1. | Community based Disaster Management Plan formulation for Indian Metropolitan Area - A case of Jaipur | Bansari Sharma | 2020-25 | Awarded | Supervisor |
| 2. | Decision Making Framework for Planning Urban Green Spaces in Indian Cities | Akanksha Sangwan | 2019-24 | Awarded | Supervisor |
| 3. | Comprehensive Framework for Sustainability Assessment of Group Housing | Parul Bhyan | 2019-24 | Awarded | Co-Supervisor |
| 4. | Decision-Making Framework for Design Quality Assessment of Rural Houses in India | Priya Tyagi | 2021-24 | Awarded | Co-Supervisor |
| 5. | Planning Strategies for an Energy-Efficient Urban Transportation System - A Case of Lucknow City | Abdur Raoof Khan | 2016-25 | Awarded | Supervisor |
| 6. | Strategies to Strengthen Urban Water Resilience at Household Level, A Case of Jaipur City, India | Manish Sharma | 2016-21 | Awarded | Co-Supervisor |
| 7. | Energy Efficiency Assessment of Indo-Saracenic Buildings in Jaipur, Rajasthan | Shweta Choudhary | 2016-20 | Awarded | Co-Supervisor |
| 8. | Strategies for Energy Efficiency in Technical Institutes of Hot and Dry Climatic Zone, India | Sunil Sharma | 2016-20 | Awarded | Co-Supervisor |

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|-----------------------------|--|-----------------------|---------|---------------------|---|
| 9. | Multi - objective Optimization Approach for Residential Net- Zero Energy Buildings in Composite Climate, Jaipur City | Pushpendra Chaturvedi | 2020-25 | Submitted | Supervisor |
| 10. | Techno-Economic Study for Comfort & Energy Performance of Historic Residential Buildings- Jaipur, India | Somya Mahlawat | 2017-25 | Submitted | Supervisor |
| Ongoing Ph.D. Thesis | | | | | |
| 11. | Water cycle management | Anchal Choudhary | 2024-25 | Ongoing | Supervisor |
| 12. | Urban Planning Strategies for Mitigating Urban Heat Island effect | Priya Mohindru | 2024-25 | Ongoing (Part Time) | Supervisor |
| 13. | OCCUPANT'S COMFORT CENTRIC POST OCCUPANCY EVALUATION OF GREEN OFFICE BUILDING | Sandeep Kumar | 2024-25 | Ongoing (Part Time) | Supervisor |
| 14. | Planning for a residential high-rise building as a Net Zero Energy Building | Priyanka Kumawat | 2023-24 | Ongoing (Part Time) | Supervisor |
| 15. | INDOOR ENVIRONMENTAL QUALITY ASSESSMENT OF BUILT SPACES FOR EDUCATIONAL BUILDINGS IN COMPOSITE CLIMATE | Sunita Doddamani | 2021-22 | Ongoing (Part Time) | Co-Supervisor (Supervisor Bhawana Shirvastava) |

Ph.D. Thesis Evaluated

| S. No. | Thesis Title | Name of Student | Name of Institute | Session of registration | Role |
|--------|--|-----------------|--------------------------------|-------------------------|----------|
| 1. | A Critical Evaluation of Last- Mile Connectivity as an Integral Component of Urban | Snigdha | Amity University Uttar Pradesh | Nov. 2025 | Examiner |

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|----|--|-----------------------|-----------------------------------|---------------|----------|
| | Mobility in Tod Zone, Case of Delhi NCR | | | | |
| 2. | Impact of Physical Planning on Social- Sustainability: A Study of Residential Neighborhoods of Jaipur, Rajasthan.” | Manjari Rai | Amity University Uttar Pradesh | Aug 2025 | Examiner |
| 3. | Contextualization of SDG 11 for Tier II Indian Cities: Ameliorating Local Area Planning Strategies for the Case of Dehradun | Neeharika Kushwaha | Amity University Uttar Pradesh | Aug 2025 | Examiner |
| 4. | Financing Framework for Residential Development Projects: An Analysis of Indian Real Estate Market | Mr. Shiv Prasad Singh | Amity University Uttar Pradesh | July 2025 | Examiner |
| 5. | Role of fenestration for daylight performance in government offices of Hamirpur | Rohit Thakur | NIT Hamirpur | Sept 2024 | Examiner |
| 6. | Modelling Urban Physics for Sustainable Development | Manoj Kumar | IIT Roorkee | April 2024 | Examiner |
| 7. | Critical Analysis of Existing Affordable Housing Policies and Proposed Integrated Approach for the Effective Implementation in India | Shagun Agarwal | Amity University Uttar Pradesh | March 2024 | Examiner |
| 8. | Street Vendors in Kerala - Vulnerability, Capability and Potentials | Pramod P. | Mar Thoma College Chungathara | Aug 2023 | Examiner |
| 9. | Application of Transit Oriented Development in Indian Cities | Deepshikha Jain | Amity University Uttar Pradesh | Oct. 2022 | Examiner |

B. PG. Dissertation & Thesis Guidance

| S. No. | Thesis Title | Name of Student | Session |
|--------|--|-----------------|-----------|
| 1. | Assessment of City Bus Transportation System | Raja Ram | 2023-2025 |

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| | of a metropolitan city- Jaipur, Rajasthan | Meena | |
| 2. | Enhancing urban water resilience through rainwater harvesting: a study of Tirupati | Rachan Sahith Sadari | 2022-2024 |
| 3. | Assessment of urban green spaces: A case of Ajmer city | Garima Singh | 2022-2024 |
| 4. | Implementation of Rain Water Harvesting for Bhilwara City, Rajasthan | Satyam Kumawat | 2021-2023 |
| 5. | Route Optimization Using ArcGIS for Tourism in Walled City, Jaipur, Raj. | Gaurav Panchal | 2021-2023 |
| 6. | Significance of Public Open Spaces in Walled City Jaipur | Diksha Bankar | 2021-2023 |
| 7. | Strategies For Improving Urban Mobility in AUNDH, Pune City | Rituja Giramkar | 2020-2022 |
| 8. | Strategy For The Orderly Placement of Street Vendors | Tanvi Gupta | 2020-2022 |
| 9. | Approaches for Planning Pandemic Adaptive City Mohali, Punjab | Pallavi Rani | 2019-2021 |
| 10. | Study of Urban Sprawl Dynamics of Patna | Arpana Kumari | 2019-2021 |
| 11. | Impact of Tourism: A Case of Pushkar City | Preeti Sinha | 2018-2020 |
| 12. | Planning For Tourism Infrastructure in Mathura City | Kanchana Agarwal | 2018-2020 |
| 13. | Planning For NMT in Vijayawada City | S. Venkata Sai | 2017-2019 |
| 14. | Investigation of Energy Consumption Pattern In Residential Neighbourhood, Chitrakot Jaipur | Abhimanyu Chaudhary | 2017-2019 |
| 15. | Urban Growth Assessment using Remote Sensing and GIS in Kishangarh, Ajmer | Aditi Mathur | 2017-2019 |
| 16. | Planning For Transportation in Guwahati City | Kirat Kungksa Naizary | 2016-2018 |
| 17. | Assessment of Mass Rapid Public Transportation System in Jaipur City | Sagar Kumar Chetiwal | 2015-2017 |
| 18. | Impact of Urbanization on Urban Water Bodies in Hyderabad City | R Anjani | 2014-2016 |
| 19. | Assessment Of Infrastructure Facilities in Residential Area of Surat City. | Mehul Kumar | 2014-2016 |
| 20. | Planning Guidelines for Development of Industrial Areas in Jaipur | Ankit Kashmiri Gupta | 2013-2015 |
| 21. | Impact of Urban Development on Water Supply: A Case Study of Jaipur City (J.M.C Limit) | Pragya Kotia | 2009-2011 |
| 22. | Slum Improvement Initiatives in Jaipur. | Ritu Sharma | 2008-2010 |

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|-----|---|---------------|-----------|
| 23. | Impact of Urban Infrastructure due to Activity Change in Raja Park Area, Jaipur | Jaswant Singh | 2008-2010 |
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C. UG. Thesis Guidance

| S. No. | Thesis Title | Name of Student | Session |
|--------|--|--------------------------|-----------|
| 1. | Aravalli Wellness Resort- Bhairanpura Jaipur | Akhil K U | 2024-2025 |
| 2. | Integrated Textile Handicrafts Hub | Snigdha Soti | 2024-2025 |
| 3. | Kendriya Vidyalaya, Ramgarh | Rahul Rawat | 2023-2024 |
| 4. | Group Housing Project at Noida | Akshat Gupta | 2023-2024 |
| 5. | International Convention Center, Jodhpur | Nitin Jangid | 2023-2024 |
| 6. | Fashion Hub | Siri Reddy Palle | 2023-2024 |
| 7. | 450-Bedded Cancer Hospital Design | Kriti Bansal | 2022-2023 |
| 8. | Development of Wellness Resort in Madan Negi, Tehri, Uttarakhand | Divyansh Soni | 2022-2023 |
| 9. | Greenfield Group Housing Project at Ahmedabad | Shah Vatsal Minesh | 2022-2023 |
| 10. | Central University of Gujrat (CUG) | Supriya Shaw | 2021-2022 |
| 11. | Urban Center for Excellences | Harsh Khandelwal | 2021-2022 |
| 12. | IT Office Building, Sector 66, Gurugram | Shambhav Jain | 2020-2021 |
| 13. | Kendriya Vidhalaya, CRPF, Kadarapur | Monika | 2020-2021 |
| 14. | Lake Side Wellness Resort at Gorean, Tehri, Uttarakhand | Abhishek Kumar | 2020-2021 |
| 15. | K-12 School, Dwarka | Shivangi Bhateja | 2019-2020 |
| 16. | Proposed Group Housing, Ganganagr | Chanderdeep Singh Brar | 2019-2020 |
| 17. | Tech Park, Bangalore | Aditya Srivastava | 2019-2020 |
| 18. | Cultural Center, Gurugram | Aditya Ranajan Sinha Roy | 2019-2020 |
| 19. | Freedom Fighter Museum Chhindwara | Akash Paredkar | 2018-2019 |
| 20. | College of Agriculture, Fatehpur, Rajasthan | Varsha Verma | 2018-2019 |

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| 21. | Beach Resort Goa | Saiyam Garg | 2017-2018 |
| 22. | Institute of Fine Art Noida | Sajal Sahu | 2017-2018 |
| 23. | Metro Station, Pushp Vihar, Delhi | Zothanzuala | 2017-2018 |
| 24. | Group Housing at Jaipur | Yashwant Bajiya | 2017-2018 |
| 25. | College of Architecture, Fathepur, Rajasthan | Varsha Verma | 2017-2018 |
| 26. | Residential High School, Bikaner | Ajay Kumar | 2016-2017 |
| 27. | Group Housing at Sikar Road | Yatin Ghera | 2016-2017 |
| 28. | IIM in Amritsar | Malvika Choudhary | 2016-2017 |
| 29. | India Habitat Centre, Gurgaon | Mrinalini Prahlad | 2016-2017 |
| 30. | Shopping Complex at Gurgaon | Ankit Malik | 2016-2017 |
| 31. | Socio-Cultural Center, Dwarka, New Delhi | Aishwarya Dwivedi | 2016-2017 |
| 32. | 200 Bedded General Hospital, New Delhi | Gaurav Jain | 2015-2016 |
| 33. | Film Institute Noida | Rahul Jangid | 2015-2016 |
| 34. | NIFT Panchkula | Tarun Varma | 2015-2016 |
| 35. | Housing High Rise Residential Apartments | Dherya Mehta | 2015-2016 |
| 36. | Museum of Modern Art Kolkata | Sanghita Bhowmick | 2014-2015 |
| 37. | International Sport Academy at Raigarh, Bihar | Piyush Kumar Pandey | 2014-2015 |
| 38. | Center for Music Experience Bangalore | Shubham Jangir | 2014-2015 |
| 39. | International Cricket Stadium and sport complex Lucknow | Vikas Saini | 2014-2015 |
| 40. | Indian Institute of Information Technology, Lucknow | Anil Kumar | 2014-2015 |
| 41. | Engineering College at Jaipur | Ashok Kumar Meena | 2010-2011 |
| 42. | Formula One Race Circuit at Noida | Hitesh Shrishimal A | 2010-2011 |
| 43. | National Institute of Design Bhopal | Udai Singh Verma | 2010-2011 |
| 44. | Museum of Independence, New Delhi | Sneha | 2009-2010 |
| 45. | Engineering College at Jagatpura, Jaipur | Jaivardhan Khandelwal | 2008-2009 |

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| 46. | 5-Star Hotel, Nagpur | Prasad A. Kawadkar | 2008-2009 |
| 47. | Mohali Integrated Passenger Terminal | Nidhi Gulati | 2007-2008 |
| 48. | 300 Bedded Hospital at Dwarka, New Delhi | Deepika Jamwal | 2007-2008 |
| 49. | Engineering College at kuchaman | Abhishek Agarwal | 2007-2008 |
| 50. | Institute of Hotel Management, Greater Noida | Vandana Singh | 2006-2007 |
| 51. | Engineering College at Bikaner | Vikas Jonwal | 2006-2007 |
| 52. | Five Star Deluxe Hostel Radisson at Jaipur | Manish Maurya | 2006-2007 |
| 53. | Jaipuria Institute of Management, Ghaziabad | Sanjeev Kr. Verma | 2002-2003 |
| 54. | International Center, Greater Noida | Rashmi Gupta | 2002-2003 |
| 55. | National Institute of Fashion Technology, Navi Mumbai | Sudhir Kain | 2001-2002 |
| 56. | Museum of Indology at Jaipur | Vandana Gupta | 1999-2000 |
| 57. | Convention Centre at Bangalore | Prem Sagar | 1999-2000 |

7. PATENTS

1. Indian Patent Filed on “A System and Method for Facilitating the Provision of Urban Green Spaces in Urban Planning” Dr. Akanksha Sangwan, Dr Nand Kumar, Dr. Ashwani Kumar, Dr. Mahesh Kumar Jat (in process App. No. 202511032452) concept submitted on 01st April 2025 (Stage: Patent Published on 27th June 2025)
2. Indian Patent granted on ‘A System and method for Conducting Fire Risk Assessments (FRAS) and Prevention in Historic Core Areas’, by Ms. Shipra Goswami, Mr. Rushikesh Kolte, Dr. Ashwani Kumar, Dr. Satish Pipralia , Dr. Nand Kumar (Patent No. 553323, App. No. 202311088247) awarded on 28.10.2024
3. German Patent granted on ‘An Urban Sustainability Assessment Classification System’ (Ein städtisches Nachhaltigkeitsbewertungs-Klassifizierungssystem)’ by Ms. Anjali Saraswat, Dr. Satish Pipralia, Dr. Ashwani Kumar, Dr. Nand Kumar, 2024 no. 202024100071 filed on 09th January 2024 and granted on 08th February 2024, German Patent Office
4. German Patent granted on ‘A rating system for fire risk assessment (Ein Bewertungssystem zur Brandrisikobewertung)’ by Ms. Shipra Goswami, Mr. Rushikesh Kolte, Dr. Ashwani Kumar, Dr. Satish Pipralia , Dr. Nand Kumar, 2023 application I.D. 202023105932.5. filed on 13th October 2023 and granted on 24th February 2024, German Patent Office

5. "A Decision-Making System for Urban Green Spaces Planning (IPC: G06Q 50/08)", Dr Ashwani Kumar, Dr Nand Kumar, Dr Mahesh Kumar Jat, Dr Akanksha Sangwan, Reg.No. 202024106161 [The President of the German Patent and Trademark Office] Dt.11-11-2024, filing dt. 28-10-2024
6. Copyright Registered on "Identification of Suitable Land Parcels for the allocation of Urban Greenspaces in Indian cities" By Dr. Akanksha Sangwan, Dr. Ashwani Kumar Dr. Mahesh Kumar Jat, Dr Nand Kumar, Mr. Vijay Anand (Roc Number: L-155916/2024) on 25th October 2024
7. Copyright Registered on "Development of Model for Ascertaining Urban Greenspaces Requirement in Indian Cities" By Dr. Akanksha Sangwan, Dr. Ashwani Kumar Dr. Mahesh Kumar Jat, Dr Nand Kumar, Mr. Vijay Anand (Roc Number: L-156288/2024) on 04th November 2024

8. List of Research Publications

A. Research Papers Published in Journals:

1. Chaturvedi, P. K., Kumar, N., Toftum, J., Andersen, R. K., Lamba, R., & Mehta, K. (2025). Exploring influential parameters affecting residential building energy use: advancing energy efficiency through machine learning: PK Chaturvedi et al. *Clean Technologies and Environmental Policy*, 1-22.
2. Bansari Sharma, Manish Sharma, Nand Kumar, Ashwani Kumar, 2026, Public Engagement Processes in Urban Development Programmes in India: A Critical Review, in *International Review for Spatial Planning and Sustainable Development Vol 14 No.1 (2026)*, p.p.207-226, ISSN: 2187-3666 (online), DOI: http://dx.doi.org/10.14246/irspsd.14.1_207
3. Singh, D., Tiwari, A., Mahajan, R., & Kumar, N. (2025). Healing the healers: How empathy, active coping and mindfulness drive well-being and happiness of healthcare employees. *International Journal of Sociology and Social Policy*. <https://doi.org/10.1108/IJSSP-04-2025-0260>
4. Tyagi, P., Bhyan, P., Shrivastava, B., & Kumar, N. (2025). Enhancing rural well-being: A comprehensive analysis of housing design quality and typologies in India's composite climate. *Environment, Development and Sustainability*, 1- 40. <https://doi.org/10.1007/s10668-025-06888-9>
5. Tyagi, P., Shrivastava, B., Kumar, N. (2025). Optimizing Rural Housing Design Quality: Indicators and Parameters for Comprehensive Assessment. In *Environment, Development and Sustainability*. Springer Netherlands. <https://doi.org/10.1007/s10668-025-06277-2>
6. Akanksha Sangwan, Sudesh Vijay Ananad, Nand Kumar, Ashwani Kumar, Mahesh Jat, Rayees Ahmed, 2024, Development of Site Suitability Framework for Urban Greenspace: A case study of Sikar city, Rajasthan, India, Accepted in *Environmental Earth Sciences* 83:634 <https://doi.org/10.1007/s12665-024-11898-3> [SJ2023 Q2]
7. Priya Tyagi; Bhavna Shrivastava; Nand Kumar "A Comprehensive Investigation of

Rural and Low-Rise Housing Design Quality: A Thematic and Bibliometric Analysis” 2024 vol. pp. DOI:10.1007/s10901-024-10122-9

8. Sanjay Choudhary, Harshita Kaur, Nand Kumar, Virendra Kumar Saharan “Examining the locational approach towards optimal siting of air quality monitoring stations in India, vol. pp.” 2024
9. Pushpendra Kumar Chaturvedi; Nand Kumar; Ravita Lamba “Finding the gaps in design strategies and technological advancements for net-zero energy buildings development in India” 2024 vol. pp. DOI: doi.org/10.1177/0958305X2412560
10. Chaturvedi, P. K., Kumar, N., Lamba, R., & Mehta, K. (2024). Multi-objective optimization of glazing and shading configurations for visual, thermal, and energy performance of cooling dominant climatic regions of India. *Clean Technologies and Environmental Policy*, 1-24.
11. Chaturvedi, P. K., Kumar, N., & Lamba, R. (2024). Finding the gaps in design strategies and technological advancements for net-zero energy buildings development in India. *Energy & Environment*, 35(7), 3880-3920.
12. Pushpendra Chaturvedi; Nand Kumar; Ravita Lamba “Identification of Climate Adaptive Multivariate Optimization Methodologies for Design of NZEB in India -A Holistic Review” 2024 vol. pp. DOI:10.3389/fenef.2024.1430647
13. Pushpendra Kumar Chaturvedi; Nand Kumar; Ravita Lamba “Multi-objective optimization for visual, thermal, and cooling energy performance of building envelope design in the composite climate of Jaipur (India)” 2024 vol. pp. 0958305X241228513 DOI:10.1177/0958305X2412285
14. Monitoring of Municipal Solid Waste Operations in Urban Areas: A Review Kumar A.; Choudhary Y.; Kumar A.; Kumar S.; Kumar N. *Lecture Notes in Civil Engineering*, Vol. 430 LNCE (2024), pp. 295-310
15. Sharma, M. & Sharma, B. & Kumar, N. & Kumar, A. (2024). A framework to assess urban water resilience in developing countries like India: Looking beyond water utilities and networked cities. *Water Policy*. 27. 88-103. DOI:10.2166/wp.2024.221
16. Tyagi, P., Shrivastava, B., & Kumar, N. (2023). Investigating Rural Housing Quality Indicators in the Indian Scenario for Inclusive Imageability. *Environment, Development and Sustainability* (Issue 0123456789). Springer Netherlands. <https://doi.org/10.1007/s10668-023-03699-8> (SJR 2022: 0.84, Q1).
17. Agarwal, K., Tyagi, P., & Kumar, N. (2023). Analysis of Public Awareness about District Disaster Management Plan: A Case of Dehradun City. *Sustainability, Agri, Food and Environmental Research*. 11. <https://doi.org/10.7770/safer.v11i1.2977>
18. Priya Tyagi, Bhavna Shrivastava, Nand Kumar, “Towards Creating Inclusive Villages: The Types of Rural Settlements in India”, *Journal of the International Society for the Study of Vernacular Settlements* 10/91-106/2023/0.281 DOI: https://isvshome.com/pdf/ISVSej_10.2.3_priya.pdf
19. Parul Bhyan, Bhavna Shrivastava, Nand Kumar, “Allocating Weightage to Sustainability Criteria’s for Performance Assessment of Group Housing Developments: Using Fuzzy Analytic Hierarchy Process”, *Journal of Building Engineering*, 65 // 2023 / 7.2 DOI: <https://doi.org/10.1016/j.jobe.2022.105684>.

20. Akanksha Sangwan, Nand Kumar and Ashwani Kumar, "Defining the Urban Greenspaces in the Indian Context", *Architecture and Urban Planning* 19 / / 2023 /0.59 DOI: <https://doi.org/10.2478/aup-2023-0008>.
21. Akanksha Sangwan; Sudesh Choudhary; Vijay Anand; Nand Kumar; Ashwani Kumar; Mahesh Kumar Jat; Rayees Ahmed "A mathematical model for temperature-reducing potential of urban greenspaces" 2023 vol. Pp
22. Akanksha Sangwan; Nand Kumar; Ashwani Kumar "Amorphous Nature of Green Spaces in Indian Urban Planning" 2023 vol. pp.
23. Shubham Rana; Amit Kumar; Nand Kumar; Mahesh Kumar Jat "A review of nitrogen flow in the anthroposphere to identify key control sectors" 2023 vol. pp. DOI:10.1007/s10098-023-02637-6
24. Parul Bhan, Nand Kumar, Bhavna Shrivastava, "A Systematic Literature Review of Sustainability Assessment Methods in Residential Buildings: Using Bibliometric Analysis 2000-2020" *Environment, Development and Sustainability* (2022). <https://doi.org/10.1007/s10668-022-02636-5> (SCI-E and Scopus indexed).
25. Sharma B., Sharma S., Kumar A., Kumar N., Pipralia S., (2022) Analysis of Urban Development Plan Formulation in India with Special Reference to Public Participation accepted for publication in *International Review for Spatial Planning and Sustainable Development* on 30th August 2022 [SJR2021 Q2].
26. Manish Sharma, Bansari Sharma, Nand Kumar, Ashwani Kumar, 2022, Measuring Urban Water Resilience at Household Level: A Comparative Study through a Framework for Developing Countries, accepted for publication in *Urban Water Journal* [DOI:10.1080/1573062X.2022.2075767] [SJR 2019 Q1, SJR2020 Q2,
27. Manish Sharma, Bansari Sharma, Nand Kumar, Ashwani Kumar, 2022, Establishing Conceptual Components for Urban Resilience: Taking Clues from Urbanization through a Planner's Lens, accepted for publication in *ASCE's Natural Hazards Review* [SJR2021 Q1] [DOI: 10.1061/NHREFO/NHENG-1523].
28. S. Choudhary, S. Pipralia, N. Kumar (2020) Energy Efficiency Assessment of Indo-Saracenic Buildings Assessments and Material Evaluation of Historic Buildings, *Materials Today: Proceeding (MATPR)*, Accepted for publication, Reference no. MATPR 19348, Elsevier, (ISSN-2214-7853).
29. S. Choudhary, S. Pipralia, N. Kumar (2020), "Need for Integrated Approach for Energy Efficiency Assessments and Material Evaluation of Historic Buildings", In Press: *Materials Today: Proceedings*, Elsevier (<https://doi.org/10.1016/14>).
30. P. Bhan, N. Kumar, B. Srivastava, Cognitive Occupancy Appraisal for Sustainable Housing" *International Journal of Recent Technology and Engineering (IJRTE)* ISSN:2277-3878, Volume-9 Issue-1, May 2020 DOI: 10.35940/ijrte.F9597.059120.
31. S. Choudhary, N. Kumar, S. Pipralia (2019) Old Buildings, New Aspirations: The Future of Heritage in the Era of Sustainability-The Scenario in Rajasthan, 16, I J publication, India. May 2019, Vol 6, Issue 5. (ISSN-2349-5162).
32. S. Choudhary, S. Pipralia, N. Kumar (2018) Revisiting Architectural Heritage Towards a sustainable Environment, *Advanced Science Engineering and Medicine (ASEM)*, Vol 10,01-5,02018, American Scientific Publishers, United states of

America. (ISSN: 21646627).

33. Sharma, S., Kumar, A., Kumar, N. and Gupta, S., 2018. Developing a Net Zero Energy Building: A Case Study of an Institutional Library. Available at SSRN 3198651.
34. S. Choudhary, S. Pipralia, N. Kumar (2018). Energy Efficiency Assessment of Indo Sarascenic Buildings In India, conference publication of International Conference on Energy efficiency in Historic buildings (EEHB), Swedish Energy Agency, University, September 2018, Visby, Sweden.(isbn-978-91-519-0838-0).
35. Kumar, N., Kumar, A. and Sharma, S., 2018 "The Quest for Environmental Sustainability in Educational Institutions." International journal of Engineering & Technology, 7(1.4), pp.33-38
36. Manish Sharma, Nand Kumar, Ashwani Kumar (2017) Need for Disaster Risk Resilience: A case of India, International Research Journal of Engineering and Technology (IRJET) Volume: 04 Issue: 11 pp 335-339.
37. Kumar, N., 2016, "A Household Based Analysis of Domestic Energy Consumption for Lighting in Jaipur City", International Journal of Built Environment and Sustainability, IJBES 3(2), Pp 126-133 (Co-Author: Dr. V. Devadas).
38. Kumar, N., 2015, "Analysis of Residential Building Energy Consumption in Jaipur City, India", Journal of the Indian Institute of Architects, Vol. 80, Issue 09, Pp 30-37 (Co-Author: Dr. V. Devadas).
39. Kumar, N., 2015, "Analysis of Energy Consumption for Personal Transportation System in Jaipur City", Journal of the Institute of Town Planners, India, Vol. 12, No. 02, Pp 28-48 (Co-Author: Dr. V. Devadas).
40. Kumar, N., 2013, "Analysis of National Highway-47 in Kanyakumari District, Tamil Nadu", Journal of the Institute of Town Planners, India, Vol. 10, No. 3, July- Sept 2013 (Co-Author: Dr. V. Devadas, Tejas Rawal).
41. Singh, D., Mahajan, R., Tiwari, A., & Kumar, N. What keeps us going: A phenomenological study of doctors' lived experiences of well-being in an Indian private medical college. Journal of Human Values. (Manuscript under review).
42. Singh, D., Tiwari, A., Mahajan, R., & Kumar, N. Employee well-being in the service sector: A systematic review and future research directions. International Journal of Management Practice. (Manuscript under review).

B. Research Papers Presented in Conferences:

1. Chaturvedi, P., Kumar, N., Lamba, R., Retrofitting strategies towards enhancing visual comfort for an institutional building: Optimizing daylight, uniformity and glare in grasshopper. International Conference on Advances in Energy Research (ICAER 2025)- SPRINGER (Accepted)
2. Chaturvedi, P., Kumar, N., Lamba, R., Assessment of green rating system for sustainable urban development in India. International Conference on Advances in Energy Research (ICAER-2025)- SPRINGER (Accepted)
3. Chaturvedi, P., Kumar, N., Sandeep K, Akanksha K Sagwan, Parametric optimization for building envelope design by genetic algorithm in the composite

- climate of India, 2nd international conference on innovations in smart and sustainable infrastructure (ISSI 2.0), PEDU, Ahmedabad India- SPRINGER (Accepted)
4. Tyagi, P., Bhyan, P., Shrivastava, B., Kumar, N. (2025). Rural Housing Sustainability in India: A Comprehensive Evaluation. EDMSET 2024. Sustainable Strategies in Architecture, Urbanism and Beyond. ISBN 978-3-031-99527-9. Springer Cham.
 5. Tyagi, P., Shrivastava, B., & Kumar, N. (2025). Architectural Analysis of Rural Housing: A Case of Village in Uttar Pradesh, India. In International Geographical Union Thematic Conference (pp. 380-391). Springer Nature Singapore.
 6. Pushpendra Chaturvedi, Dr. Nand Kumar, Multi-objective optimization for building envelope design by genetic algorithm in composite climate of India, "International conference on Climate Change, Culture Heritage & Sustainable Habitat" Place: NIT Patna 2024
 7. Sourojee Dutta, Nand Kumar, A Comprehensive Understanding of the Research Themes, Trends and Future Directions of Vernacular Architecture using Bibliometric Analysis, "ICTAC 24" Place: Chandigarh University, 2024
 8. Priya Tyagi, Parul Bhyan, Bhavna Shrivastava, Nand Kumar, Rural Housing Sustainability in India: A Comprehensive Evaluation, "International Conference on Environmental Design, Material Science, and Engineering Technologies" Place: Abu Dhabi University, Dubai 2024
 9. Tyagi, P., Bhyan, P., Shrivastava, B., Kumar, N. (2024). Indicative Direction in Construction Materials for Indian Suburbs. IOP Conference Series: Earth and Environmental Science. <https://doi.org/10.1088/1755-1315/1326/1/012152>
 10. Tyagi, P., Bhyan, P., Shrivastava, B., Kumar, N. (2024). Epistemological Approach to Ascertain Human Comfort in Rural Houses in the Indian Context. In: Nandineni, R.D., Ang, S., Mohd Nawawi, N.B. Sustainable Resilient Built Environments. SRBE 2022. Advances in 21st Century Human Settlements. Springer, Singapore.
 11. Bhyan, P., Tyagi, P., Shrivastava, B., Kumar, N. (2024). Classification of Sustainability Assessment Parameters for Residential Building Materials Using Relative Importance Index. In: Nandineni, R.D., Ang, S., Mohd Nawawi, N.B. (eds) Sustainable Resilient Built Environments. SRBE 2022. Advances in 21st Century Human Settlements. Springer, Singapore.
 12. Sourojee Dutta, Nand Kumar, Debendra Nath Dash, Land Use Land Cover (LULC) Mapping and Spatial Growth Analysis using GIS Techniques for Urban Clusters of Jammu & Kashmir Region, India, "Urban Innovation Conference 2024" Place: SPA Bhopal, internationally renowned Conference
 13. Krishna Goala, Nand Kumar, "Comprehensive Assessment and Mitigation Strategies for Urban Air Pollution in Jaipur, Rajasthan: A Focus on PM and Health Implications" 2024 International Conference on Climate Change, Cultural Heritage and Sustainable Habitat
 14. Parul Bhyan, Priya Tyagi, Bhavna Shrivastava, Nand Kumar, Sustainability of Construction Materials Used in Building Envelope: Bibliometric Analysis Using R-Tool 2002-2022., "7th International Conference on Civil Engineering for Sustainable" Place: KUET University, Bangladesh, Internationally renowned

Conference 2024

15. Diksha Bakar, Gaurav Panchal, Pushpendra, Nand Kumar, Assessment of Public Open Spaces as a Cultural Heritage in Walled City Jaipur, " International conference on Climate Change, Culture Heritage & Sustainable Habitat " Place: NIT Patna Place: NIT Patna 2024
16. Sanjay Choudhary, Nand Kumar, Optimizing Energy Efficiency and Constraining Costs in Affordable Housing through Strategic Architectural Design: A Case Study in the Rajasthan Context, "International Conference Climate Change, Cultural Heritage & Sustainable Habitat Patna, India" Internationally renowned Conference 2024
17. Chaturvedi, P., Kumar, N., Lamba, R., & Nachan, P. (2023). Multi-Objective Optimization of Building Envelope for Daylight and Energy Performance in Hot and Dry Indian Climate;10.18086/swc.2023.06.04.
18. Chaturvedi, P., Kumar, N., Lamba, R., & Nachan, P. (2023). Effect of building form on daylight and energy efficiency for educational building in composite climate. International Solar Energy Society SWC 2023, 1-11.
19. Pushpendra K, Kumar N, Lamba R, Exploring the Status of Urban Greenspaces in Indian Cities: An Analysis of Master Plan Documents and Recommendations for Improvement, ICUT-2023: International Conference on Urban Transformation for Climate Change Adaptation- 15-16 June 2023.
20. Pushpendra K, Kumar N, Lamba R, Assessment of Green Rating Systems in India: Barriers to Urban Development, ICUT-2023, International Conference on Urban Transformation for Climate Change Adaptation- 15-16 June 2023.
21. Pushpendra K, Kumar N, Lamba R, Multi-Objective Optimization-Based Methodological Framework for Net Zero Energy Building Design in India- International Conference on Artificial Intelligence, Blockchain, Computing and Security, 24-25 Feb 2023.
22. Pushpendra K, Kumar N, Lamba R, Retrofitting Strategies Towards Enhancing Visual Comfort for An Institutional Building: Optimizing Daylight, Uniformity and Glare in Grasshopper- 2nd International Conference on Innovations in Clean Energy Technologies 8th to 10th April 2023- MANIT Bhopal.
23. Sangwan A., Kumar N, Kumar A., Agarwal k., Chaturvedi P., 2023 analysis of Greenspaces Provision in Urban Planning of Cities of India. International Conference on urban transformation for climate change adaptation (ICUT2023); COEP Conference Booklet at Pune
24. Somya Mahlawat, Nand Kumar, Satish Pipralia, "A Review of Sustainability Lessons by Revisiting Traditional Built Environments", International Conference on Future Cities by: IIT Roorkee at IIT Roorkee // 2022.
25. Pushpendra CK, Kumar N, Lamba R, Nirwal V., "A Parametric Optimization for Decision Making of Building Envelope Design: A Case Study of High-Rise Residential Building in Jaipur (India).," International Conference on Advances in Energy Research (ICAER) by: Springer at IIT Bombay (Online) 2022.
26. Kshitiz Agarwal, Priya Tyagi, Dr. Nand Kumar (2022). Analysis of Public Awareness about District Disaster Management Plan: A Case of Dehradun City. International Conference on Multidisciplinary Aspects of Design. Enhancing the Connections K.R. Mangalam University.
27. Sangwan Akanksha, Kumar Nand, Kumar Ashwani, 2022, Dialogues and Advocacy for Sustainable Urban Greenspaces in the Urban Planning Process, International

- Conference of Creative Future (ICCF'22), May 20-21, 2022 MU Jaipur.
28. Sharma Manish, Sharma Bansari, Kumar Nand, Kumar Ashwani, 2022, Water Stress: Vulnerable Urban Areas, International Conference of Creative Future (ICCF'22), May 20-21, 2022 MU Jaipur.
 29. Sangwan Akanksha, Kumar Nand, Kumar Ashwani, 2022, Dialogues and Advocacy for Sustainable Urban Greenspaces in the Urban Planning Process, International Conference of Creative Future (ICCF'22), May 20-21, 2022 MU Jaipur
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 32. Edited International Conference Proceedings on Cities-2050 Planning, Governance and Management (Reference Book); INSC International Publisher, 2021
 33. Manish Sharma, Dr. Nand Kumar and Dr. Ashwani Kumar, 2021, Existing Resilience Framework for Disaster Risk Management in India, 5th World Congress on Disaster Management (WCDM), November 24-27, 2021 Delhi [ISBN 9781032355429.
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 36. Sharma Manish, Kumar Nand, Kumar Ashwani (2019), A Quest for Networked City in Developing Countries by Spatial Assessment of the Status of Urban Water System: A Case of Jaipur City, Architecture and Civil Engineering Conference (ACE 2019) Singapore (DOI: 10.5176/2301-394X_ ACE19.613).
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 38. Sharma Sunil, Kumar Ashwani, Kumar Nand, Gupta Sobhagyawati, (2018) Developing a Net Zero Energy Building: A Case Study of an Institutional Library, International Conference on Urban Sustainability: Emerging Trends, Themes, Concepts & Practices, MNIT Jaipur, March 16th - 18th, ISBN: 9789386238481
 39. Manish Sharma, Nand Kumar, Ashwani Kumar (2017) Need for Disaster Risk Resilience: A case of India, International Research Journal of Engineering and Technology (IRJET) Volume: 04 Issue: 11 pp 335-339.
 40. Kumar, N., Tyagi, R., & Gupta, P. (2017). Study of Change in Land Use/ Activity in Malaviya Nagar, Jaipur city. International Conference on Modern Research in Architecture, Civil Engineering, Environmental Science for Sustainable

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 46. Kumar, N., & Thapa, V. (2017). Study of Open and Green Spaces in an Urban Neighborhood: Case Study of Malaviya Nagar, Jaipur. International Conference on Modern Research in Architecture, Civil Engineering, Environmental Science for Sustainable Development (pp. 523-525). New Delhi: Krishi Sanskriti.
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56. Sharma M., Kumar N., Kumar A, (2017), Need for Disaster Risk Resilience: A Case of India, International Conference on Theory of Architectural Design: Global Practices amid Local milieu, 14th -16th April 2017 SMVDU Katra, McGraw Hill Education (India) P. Ltd. (ISBN no. 978-93-5260-628-3) pages: 290-293
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C. Author/ Co-author of book chapter, reference material:

1. Tyagi, P., Bhyan, P., Shrivastava, B., Kumar, N. (2025). Urban Sprawl's Multifaceted Impact on Urban Areas: Insights from Indian Cities. In Sustainability and Urban Quality of Life: Research, Policy and Practice. (pp. 108-123). ISBN 9781032554754. Routledge, Taylor and Francis.
2. Monitoring of Municipal Solid Waste Operations in Urban Areas: A Review; Springer Nature Singapore 2024
3. Sangwan A, Chaturvedi P, Kumar N, Kumar A, Multi-level decision approach to evaluate the provision of urban green spaces in Rajasthan cities, "Restoring Urban Green Spaces: Reclaiming Nature for Resilient Cities" Springer Nature.2024
4. Sangwan A. Anand V. Kumar N. Kumar A. Jat M. Ahmed A., Development of Site Suitability Framework for Urban Greenspace: A case study of Sikar city, Rajasthan, India. Environmental Earth Science 10.1007/s12665-024-11898-3, Springer Nature 2024
5. Bhyan, P., Tyagi, P., Shrivastava, B., Kumar, N. (2024). Existing State of Group Housing Shortage and Household Quality of Life in India. In Sustainability and Urban Quality of Life: Research, Policy and Practice. (pp. 41-51). ISBN 9781032554754. Routledge, Taylor and Francis.
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 11. Chaturvedi, P. K., Kumar, N., & Lamba, R. (2023). Multi-objective optimization based methodological framework for net zero energy building design in India. In Artificial Intelligence, Blockchain, Computing and Security Volume 1 (pp. 187-194). CRC Press.
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 13. Chaturvedi, P. K., Kumar, N., & Lamba, R. (2023, December). Multi-objective Optimization Approach for Envelope Design in Naturally Ventilated Building of Jaipur City: A Case Study of Residential Building. Advances in Clean Energy and Sustainability, (pp. 221-235). Singapore: Springer Nature Singapore.
 14. Manish Sharma, Bansari Sharma, Nand Kumar, Ashwani Kumar, 2023, Water Stress: Vulnerable Urban Areas, The Future of the Creative Industries: A Global Perspective, Cambridge Scholars Publishing PP 130-138 (ISBN: 9781527512535)2023
 15. Shradha Chandan, Bansari Sharma, Satish Pipralia, Nand Kumar & Ashwani Kumar, 2023, Mainstreaming Community Engagement and Participation in Urban Planning Education: A Case Study of MNIT, Jaipur, Community Engagement in Higher Education: From Theory to Practice, Edited By Manju Singh, Purva Bhatt, Wafa Singh, Kumar Sambhav Pareek [ISBN no. 9781032195773]
 16. Bhyan, P., Tyagi, P., Doddamani, S., Kumar, N., Shrivastava, B. (2023). Life cycle assessment of lightweight and sustainable materials. In Elsevier (pp. 117-142). <https://doi.org/10.1016/B978-0-323-95189-0.00013-5>.
 17. Manish Sharma, Nand Kumar, Ashwani Kumar (2022). Existing Resilience Framework for Disaster Risk Management in India. Routledge Publication. 5th World Congress on Disaster Management: Volume I. ISBN- 9781003341956
 18. Bhavna Shrivastava, Nand Kumar, Priya Tyagi (2022). Expedition of Architectural Design to Virtual Reality and Digital Design. ISBN: 978-93-5547-244-1, eBook ISBN: 978-93-5547-245-8. DOI: 10.9734/bpi/nvst/v10/5274F.
 19. Parul Bhyan, Nand Kumar, Bhavna Shrivastava, Requisite Sustainable Development Contemplating Buildings: Economic and Environment Sustainability." Addressing Environmental Challenges Through Spatial Planning (pages 269-288).2022
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21. Parul Bhyan, Nand Kumar, Bhavna Srivasatava, (2021). Behavioral Factors Affecting the Adoption of Sustainable Housing Practices: Indian Context” in Advanced Aspects of Engineering Research Vol. 14, 20 May 2021, Page 92-97.

A. List of Books Published /Edited

1. Edited International Conference proceedings on Urban Sustainability: Emerging Trends, Themes, Concepts & Practices, MNIT Jaipur, March 16th – 18th, ISBN: 978-93-86238-48-1 (co-editors Dr. Tarush Chandra, Dr. Ashwani Kumar, Dr. Nand Kumar and Dr. Pooja Nigam) published by Excellent Publishing House India. 2018
2. Edited conference proceedings on ‘Urban Environmental Management in India: Problems and Prospects’ (2017), ISBN No. 978-93-86238-12-2 (co-editors Dr. Tarush Chandra, Dr. Ashwani Kumar, Dr. Nand Kumar, Dr. Pooja Nigam and Ar. Niruti Gupta), published by Excellent Publishing house India.
3. Kumar, N., & Chetiwal, S. (2017). The Urban Challenge: An Assessment of Public Transportation Systems. Germany: LAP Lambert Academic Publishing, ISBN 978-620-2-07877-1.
4. Kumar, N., & Devadas, V. (2017). Planning for Sustainable Development of Walled City Area of Jaipur. Germany: LAP Lambert Academic Publishing, ISBN 978-3-659-59680-3.
5. Kumar, N., & Kashmiri, A. (2017). Planning Guidelines for Developing Industrial Areas in Jaipur. Germany: LAP Lambert Academic Publishing, ISBN 978-620-2-07124-6.

9. International and National Conferences Organized:

1. 1st International conference on “Urban Transformation for Climate Change Adaptation” from 6th -7th April 2023 at COEP technological university, Pune, India.
2. Organized National Conference on ‘CITIES 2050: Planning, Governance and Management’, from 23rd to 24th July 2021 at Department of Architecture and Planning, MNIT Jaipur.
3. International Level Conference on International Conference on Future Cities-2019 at IIT Roorkee, India from 11-12-2019 to 13-12-2019.
4. Organized International Conference on ‘Urban Sustainability: Emerging Trends, Themes, Concepts and Practices’, from 16th to 18th March, 2018 at Department of Architecture and Planning, MNIT Jaipur.
5. Organized National Conference on ‘Urban Environmental Management in India: Problems and Prospects’ on 20th and 21st January 2017 at Department of Architecture and Planning, MNIT Jaipur

10. Training, Workshop and Capacity Building Programmes Organized:

| Sr. N. | Title of the Programme | Role | Funding Agency | Duration | Status |
|---------------|--|-------------|-----------------------------|-----------------------------|---------------|
| 1. | Enabling City-Region Development: Strategic Frameworks for Regional Growth, Corridor Integration | PI | AMRUT Center MNIT Jaipur | 18-12-2015 to 19-12-2025 | Completed |

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|-----|--|----|--|--|-----------|
| | and Sustainable Urban Urbanization | | | | |
| 2. | Co-creating Inclusive Agricultural Finance System | PI | AMRUT Center, MNIT Jaipur | 16-12-2025 | Completed |
| 3. | Draft Transit Oriented Development Policy 2025 | PI | AMRUT Center MNIT Jaipur | 22 nd Sept 2025 | Completed |
| 4. | Newly Recruited Executive Officers IV & Revenue Officers II | PI | AMRUT Center MNIT Jaipur | 01 st Sept to 15 th Oct 2025 | Completed |
| 5. | Smart Cities and Mobility Research “Tools, Technology and Application from 04.08.2025 to 08.08.2025 | PI | SPARC and AMRUT Center MNIT Jaipur | 04.08.2025 to 08.08.2025 | Completed |
| 6. | Geospatial Technologies & AMRUT Guidelines for Master Plan Formulation | PI | AMRUT Center MNIT Jaipur | 04 th August - 08 th August 2025 | Completed |
| 7. | Geospatial Technologies & AMRUT Guidelines for Master Plan Formulation | PI | AMRUT Center MNIT Jaipur | 28 th July - 01 st August 2025 | Completed |
| 8. | Three training Programs on Geo spatial Technologies and Amrut Guidelines for GIS based Master Plan Formulation | PI | Indo-French Centre for the Promotion of Advanced Research (IFCPAR) Lodhi Road, Delhi | 10-08-2025 to 30-08-2025 | Completed |
| 9. | International Workshop on “A data driven approach towards smart cities” | PI | SPARC | 21st July - 25th July, 2025 | Completed |
| 10. | Geospatial Technologies & AMRUT Guidelines for Master Plan Formulation | PI | AMRUT Center MNIT Jaipur | 21 st - 25 th July 2025 | Completed |
| 11. | A Data Driven Approach Towards Smart Cities | PI | AMRUT Center MNIT Jaipur | 21 st July - 25 th July 2025 | Completed |
| 12. | Drainage Master Planning | PI | AMRUT Center MNIT Jaipur | 25 th - 27 th June 2025 | Completed |
| 13. | Catchment restoration and conservation of water bodies | PI | AMRUT Center MNIT Jaipur | 11 th - 13 th June 2025 | Completed |

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| | in urban areas with community-based O & M | | | | |
| 14. | Urban Waste Management, Resource Recovery & Community Engagement | PI | AMRUT Center MNIT Jaipur | 2 nd - 4 th June 2025 | Completed |
| 15. | Four Training Programs on 1. Waste Processing Techniques and community Participation from May 07-09,2025 2. Drainage Master Planning - May 13-15 20253. Catchment Restoration and Conservation of Water Bodies in Urban areas with Community Based O & M | PI | RUDSICO Jaipur | May 07-09,2025 May 13-15 2025 | Completed |
| 16. | Waste Processing Techniques & Community participation | PI | AMRUT Center MNIT Jaipur | 7 th - 9 th May 2025 | Completed |
| 17. | Workshop on Technology Enabled Urban Development | PI | AMRUT Center MNIT Jaipur | 24 th March 2025 | Completed |
| 18. | Effectiveness of DAY-NULM & Evaluating the Entrepreneurial Impact of the PM SVANidhi Scheme | PI | AMRUT Center MNIT Jaipur | 9 th - 13 th March 2025 | Completed |
| 19. | Sustainable Building Planning, Design, Construction and Maintenance | PI | AMRUT Center MNIT Jaipur | 21 st - 25 th January 2025 | Completed |
| 20. | Net Zero Buildings in India: Decarbonizing the Built Environment | PI | AMRUT Center MNIT Jaipur | 20 th - 24 th January 2025 | Completed |
| 21. | Application of Remote Sensing and GIS in Urban Planning | PI | TEQIP-III sponsored at MNIT Jaipur | 11 th - 15 th March 2021 | Completed |
| 22. | Formulation of City Master Plans and Use of Geospatial Technologies | PI | TEQIP-III sponsored at MNIT Jaipur | 21 st - 25 th Feb. 2020 | Completed |
| 23. | System Dynamics Simulation & Research Techniques | PI | TEQIP-III sponsored at MNIT Jaipur | 31 st Aug.-4 th September 2019 | Completed |

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|-----|---|----|------------------------------------|--|-----------|
| 24. | Indigenous Built Forms in Mountain Regions of India and Implementation of Building Codes | PI | HIA Ladakh | 17 th – 21 st June 2019 | Completed |
| 25. | FDP on Sustainable and Energy Efficient Buildings; Council of Architecture (COA) funded | PI | MNIT Jaipur | 25 th Feb. – 1 st March 2019 | Completed |
| 26. | Application of Remote Sensing and GIS in Preparation of Master Plan and Zonal Development Plan | PI | TEQIP-III sponsored at MNIT Jaipur | 31 st Jan. – 4 th Feb. 2019 | Completed |
| 27. | Application of System Dynamics Modeling & Research Methodology | PI | TEQIP-III sponsored at MNIT Jaipur | 4 th – 8 th Sept. 2018 | Completed |
| 28. | FDP on Vernacular Architecture and Traditional Constructional Practices in Hot and Dry Climate Region | PI | (COA) funded, MNIT Jaipur | 21 st – 25 th May 2018 | Completed |
| 29. | FDP on Development Regulations and Built Environment | PI | (COA) funded, MNIT Jaipur | 22 nd – 26 th Jan. 2018 | Completed |
| 30. | FDP on Energy Efficient Building Design | PI | (COA) funded, MNIT Jaipur | 18 th – 22 nd Dec. 2017 | Completed |

GIAN Programmes:

| Sr. N. | Title of Programme | Role | Duration | Funding Agency | Status |
|--------|--|------|--------------------------|--|-----------|
| 1. | City Energy Management Modeling and Practice | PI | 10-03-2018 to 14-03-2018 | Ministry of Human Resource Development, Govt. of India | Completed |
| 2. | Resource Sensitive Urban Design | PI | 26-02-2018 to 02-03-2018 | Ministry of Human Resource Development, Govt. of India | Completed |

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| 3. | Climate Responsive Design Development for Energy Efficient Buildings | PI | 05-02-2018 to 09-02-2018 | Ministry of Human Resource Development, Govt. of India | Completed |
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11. Summer/Winter Schools Attended

1. GIAN Program on Urban Analysis at IIT Roorkee in March 15-18, 2018
2. Urban Dynamics and Planning Techniques at IIT Roorkee in June 26-30, 2017.
3. GIAN Programme: Low Carbon Built Environments: Design approach and performance assessment at IIT Roorkee in April 9-18, 2017
4. Modeling Techniques for Sustainable Built Environment at IIT Roorkee in March 17-19, 2017
5. Energy Efficient Building Design at New Delhi in November 29-30, 2016
6. GIAN Programme: Housing for All: An urban districts and area-based approach towards sustainability at IIT Roorkee in November 4-10, 2016
7. GIAN Programme: Land Use / Land Cover Change Modelling and Prediction at MNIT Jaipur in July 4-8, 2016
8. Literature Review and Reference Management at MNIT Jaipur in July 1-2, 2016
9. Earthquake Resistant Design & Construction at MNIT in 2009
10. Application Orientation in Engineering Mathematics at MNIT in 2007
11. Urban Water Management at MNIT in 2007
12. Water Management: A Global perspective at MNIT in 2007
13. Contemporary Trends in Interior Design at IIT Roorkee in 2007
14. Remote Sensing and GIS Application Special at IIT Roorkee in 2005
15. Application for FEM for Structural Analysis at MNIT 2004
16. Techno-Economic Aspect of Land Filing and Recycling at MNIT Jaipur 2003

12. International Visit.

1. Visiting as Project PI at UCL London for lecture series on A smart city Geo-Spatial Data Catalogue representing complex Urban Mobility Challenges in India on 8-feb-2025 to 22-feb-2025.
2. Visiting Guest Lecturer at Technische University, Darmstadt, for lecture series on Urbano Course between 15-october-2018 and 19 October 2018.

22. Outreach Activities:

| S. No | Category | Name of Activity | Organization | Place | Position | Date of Activity |
|-------|----------|---|----------------|----------------|---------------|---|
| 1. | National | Regional Planning Studio (M.Plan-URP II year III) | SPA Vijayawada | Andhra Pradesh | External Jury | 09 th & 10 th Dec. 2025 |

| | | Sem) | | | Member | |
|-----|----------|---|----------------|------------------|----------------------|--|
| 2. | National | End Term Practical Examination of B.Arch. 3 rd Semester Course Architectural Design II discussion on possible research and consultancy collaborations under AMRUT Centre | NIT Hamirpur | Himachal Pradesh | External Expert | 05 th Dec. 2025 |
| 3. | National | workshop titled "Impact Assessment and Scenario Building in Environmental Planning Analysis | SPA Vijayawada | Andhra Pradesh | Expert | 8 th & 9 th Nov. 2024 |
| 4. | National | Master of Planning (URP) II year, III Semester Regional Planning Studio | SPA Vijayawada | Andhra Pradesh | External Jury Member | 20 th Sept. 2024 |
| 5. | National | Short term course (e-STC) on 'Emerging Research Tools and Techniques in Architecture" | NIT Hamirpur | Hamirpur | Speaker | 22-04-2024 |
| 6. | National | FDP - "Developmental Regulations and Built Environment | NIT Hamirpur | Himachal Pradesh | Lecture/Expert Talk | 22 nd -26 th Feb. 2024 |
| 7. | National | Energy Efficient Policies and Development Regulations | NIT Hamirpur | Himachal Pradesh | Guest Expert Lecture | 24 th Feb. 2024 |
| 8. | National | Developmental Regulations and Built Environment | NIT Hamirpur | Hamirpur | Speaker | 22-02-2024 |
| 9. | National | Board of Studies, VGU Jaipur | VGU Jaipur | Jaipur | Member | 14-03-2022 |
| 10. | National | Workshop on Sustainable Practices in the Built Environment | NIT Hamirpur | Hamirpur | Speaker | 26-12-2021 |
| 11. | National | E-workshop on Sustainable Built-Environment in Hill (SBH- | NIT Hamirpur | Hamirpur | Speaker | 11-09-2021 |

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| | | 2021) | | | | |
| 12. | National | Question Paper Formation | Jagannath University | Jaipur | Paper Settler | 05-04-2021 |
| 13. | National | Board of Studies for Master of Planning, Faculty of Architecture and Planning, VGU | VGU Jaipur | Jaipur | Member | 16-03-2021 |
| 14. | National | ICFC 2019 | IIT Roorkee | Roorkee | Technical committee member | 11-12-2019 |
| 15. | National | Editing Process for ICFC-2019 | IIT Roorkee | Roorkee | Professional Activist | 22-10-2019 |
| 16. | National | FDP | Shri Mata Vaishno Devi University | J & K | Speaker | 01-08-2019 |
| 17. | National | Committee for Prevention of accidents at various traffic junctions | JDA Jaipur | Jaipur | Member | 29-07-2019 |
| 18. | International | Visiting Lecturer | Technical University Darmstadt | Darmstadt | Visiting Lecturer | 12-06-2018 |
| 19. | National | GIAN Programme on Urban Analytics | IIT Roorkee | Roorkee | Participant | 06-06-2018 |
| 20. | National | Attending 10 th GRIHA Summit | TERI | New Delhi | Participant | May 2018 |

21. Advisory and Technical Committee Membership of Conferences

1. Co-chaired a session at International Conference on **Future Cities-2019**, 11th to 13th December 2019 IIT Roorkee
2. Member Technical committee and Review Committee for International Conference on **Future Cities-2019**, 11th to 13th December 2019 IIT Roorkee
3. Chaired a session International Conference on '**Urban Sustainability: Emerging Trends, Themes, Concepts and Practices**', from 16th to 18th March, 2018 at Department of Architecture and Planning, MNIT Jaipur.

4. Chaired a session at National Conference on **‘Urban Environmental Management in India: Problems and Prospects’** on 20th and 21st January 2017 at Department of Architecture and Planning, MNIT Jaipur

For more information kindly visit following links:

| | |
|-------------------------------|---|
| Google Scholar | Dr. Nand Kumar - Google Scholar |
| MNIT Profile | Nand Kumar (mnit.ac.in) |
| ORCID Profile | https://orcid.org/0000-0002-0390-6831 |
| Web of Science Profile | https://www.webofscience.com/wos/author/record/39348341 |
| Research Gate Profile | https://www.researchgate.net/profile/Nand-Kumar-19 |
| Vidwan Profile | https://vidwan.inflibnet.ac.in/profile/108742 |