# Department of Architecture and Planning

## Indian Institute of Technology Roorkee

Date: **04 Nov 2026**

### List of Faculty Members Available for PhD Supervision in Spring 2026-27 Session

| S.N. | Name of Faculty | Research Areas / Specializations for Guiding PhD |
|---|---|---|
| 1 | Avlokita Agrawal | Vaastushastra, Energy efficiency in buildings, Sustainability in built environment, Codes for energy compliance |
| 2 | Sameer Ali | BIM (Building Information Modelling), ML/AI in Architecture, Community Resilience, Social Capital, Disaster Mitigation, Urban Isolation, Urban Mobility, Street safety perception |
| 3 | Arindam Biswas | Spatial analytics and data visualization, Big data and AI in urban growth modeling, Climate change and and environmental disaster impact on urbanization. |
| 4 | Prabhjyot Singh chani | Material Passports, Embodied Carbon and Water, Sustainability through Circular Construction, Neuroarchitecture and Human-Centric Built Environments, Kinetic and Adaptive Building Envelopes, Indoor Environmental Quality |
| 5 | Navjit Gaurav | Architecture around children; Disability and disaster; Architecture, public health and healthcare; Community and Architecture at the intersection of Education and Healthcare; Participatory and/or Action Research; Qualitative methods; Rehabilitation, Healthcare and Public Health in the Indian Himalayan Region; Healthy aging; Assistive technology and assistive devices |
| 6 | Mahua Mukherjee | Urban Morphology & Urban Risk Resilience - UHI, Thermal Comfort, Flooding, Air Pollution, Ground Water, Ecosystem Service Assessment - Wetland, Climate change adaptation and mitigation planning with NbS, Strategic Blue-Green Infrastructure planning, Seismic Resilience for settlement and Non-Structural Elements |
| 7 | Debadutta Parida | Climate Risk Policy and Governance, Environmental Communication, Psychoanalysis, Southern Urbanism; Strategy and Planning |
| 8 | Gaurav Raheja | Universal Design, Design for Disabled, Ageing & Children, Inclusive Mobility, Urban Futures, Accessibility and Inclusion, Contemporary World Architecture, Design Thinking, Visual Communication, Design Theory and Pedagogy, Social Research Methods, Demography & Diversity, Social Sustainability, Environment Behaviour Studies, Public Spaces, Urban Design |
| 9 | Rajasekar Elangovan | Urban climate modeling; Building performance; heat stress; thermal comfort; Architectural Acoustics |
| 10 | Shubhajit Sadhukhan | Sustainable Transportation Planning and Policy, Infrastructure Planning and Management, Tourism Planning, Walkability & Cyclability, Active Transportation & Micro-mobility, Urban & Regional Mobility & Accessibility, First & Last Mile Connectivity, Multi-modal Transportation, Inclusive Mobility Systems, Travel Behaviour, Perception Studies, Choice Modelling, Urban System Dynamics. |
| 11 | Smriti Saraswat | Heritage, Tourism, Himalayan Studies, Architectural Theory, Culture, Community based Knowledge, Interior Architecture, Sustainable Design, Craft, Interior Design, Digital and Immersive Technology, Design, Textiles, Interdisciplinary Research, Narratives, Material Culture, Sustainable Development Goals |
| 12 | Tanaya Sarmah | Disaster Risk Resilience, Climate Change Adaptation, Critical Infrastructure Protection, Remote Sensing & GIS Applications in urban studies and disaster studies, Impacts of disasters on the water-energy-food nexus, Hazard Risk Vulnerability Assessment (urban floods, drought, heat stress) |
| 13 | Manavvi Suneja | Environmental comfort and soundscapes; heat-resilient and climate-responsive landscape strategies; restorative landscapes; green-blue infrastructure and nature-based solutions; biodiversity assessment and ecological landscape planning; cultural landscape studies. |