

Department of Architecture and Planning

Indian Institute of Technology Roorkee

Date: 19 May 2026

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

| S.N. | Name of Faculty Members | Research Areas / Specializations for Guiding PhD |
|------|-------------------------|--|
| 1 | Avlokita Agrawal | Vaastushastra, energy efficiency in buildings, sustainability in built environment |
| 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 | 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 |
| 5 | 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 |
| 6 | Debadutta Parida | Climate and Development; Governance, Strategy and Policy analysis; Environmental policy and Planning; Disaster Management; Informality and Conflict; Psychoanalysis and Planning |
| 7 | Ram Sateesh Pasupuleti | Culturally Responsive Built Environments, Heritage Conservation, Vernacular Architecture in Disaster contexts |
| 8 | Tina Pujara | "Urban Design, Urban Design and Mental Health, SDG3 [Health and Wellbeing] in Urban Design, Happiness by Urban Design, Happy Routes for Institutional Campuses, Mapping Emotions in Urban Space, Colour-Emotion Association, Urban Night time Design, Healthy and Age-Friendly Cities, Neuro-Urbanism, Restorative Urbanism, Loneliness in Urban Spaces, Environment Behaviour Studies, Child Friendly Cities, Urban Social Sustainability, Urban Public Spaces, Architectural Journalism, Design Pedagogy |
| 9 | 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 |
| 10 | Rajasekar Elangovan | Urban climate modeling; Building performance; heat stress; thermal comfort; Architectural Acoustics |
| 11 | 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. |

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| 12 | Smriti Saraswat | Heritage, Tourism, Architectural Theory, Textiles, Culture, Interior Architecture, SDG, Craft, Design, Interdisciplinary Research, Narratives |
| 13 | 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) |
| 14 | 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. |