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Professor, Department of Architecture & Planning, IIT Roorkee

Joint Faculty & Ex-Head, Centre of Excellence in Disaster Mitigation and Management (CoEDMM), IIT Roorkee

Roorkee 247 667. Phone: 91 1332 285334 (O) / 285036 (R)

Mob: 9411500150

COA Registration No: CA/90/13407

Email: **mahuafap@iitr.ac.in** **mahua1965@gmail.com**

DOB: 14th October, 1965

**MAHUA MUKHERJEE, PhD**

**EDUCATION**

**Professional Certificate Course** Nov,2010- May,2011

*Environmental Planning & Management (E-Learning mode)*

CEPT University, India

**Post-doc research with Fulbright Fellowship** Jan-May, 2008

Environmental Risk Management with emphasis on community seismic resiliency

Architectural Engineering Department, Pennsylvania State University, USA, PA-16802

**International Certificate course** Jan- Feb2007

*Organised Self Help Housing*

Lund University, Sweden, University of Costa Rica & Fuprovi

**Doctor of Philosophy** December 2003

*Topic: Design Parameters for Human Settlements in a Megacity – Calcutta Case Study*

 Jadavpur University, Kolkata, India

**International Certificate course** March-May 1996

*International Construction Management*

Lund University, Lund, Sweden

**Master of Engineering** November 1990

*Major: Building Science and Technology*

University of Roorkee, Roorkee India

**Bachelor of Architecture** May 1988 Jadavpur University, Kolkata, India

**WORK EXPERIENCE (Teaching & Research)** **20 1/4+ 2+ 4 Years in total**

* **Indian Institute of Technology, Roorkee**

Professor 22 December, 2018 -till date

Head, CoEDMM 6 Feb, 2018- 31 May, 2021

Associate Professor 23 October 2012 -21 December, 2018

Assistant Professor January 2005-October 2012

Lecturer January 2003-January 2005

Responsibilities:

* Nurturing academic and professional interest in the Department of Architecture and Planning, IIT Roorkee and in the Centre of Excellence in Disaster Mitigation and Management, IIT Roorkee
* Create interest of the graduate and postgraduate students in issues like urban climate, structural forms, earthquake resistant design and sustainable and safe habitat design
* Extending guidance to Research Scholars and Post Graduate students’ dissertations
* Contributing to Research publications on areas of interests including pedagogy
* Department Time table, Library, M. Arch Course Coordination, Examination, Building Maintenance
* Advanced Climatology Laboratory development for UG, PG and PhD. Scholars
* Conducting courses on emergent areas for students, scholars, faculty and professionals
* Sponsored and Consultancy Research

Institute Level Role:

* Currently Head, Department of Architecture and Planning for the duration 01/06/2024- 31/05/2026
* First Chairman, Diversity & Inclusion Committee- IIT Roorkee, 2022-2024
* Presiding Officer, Internal Complaints Committee- IIT Roorkee; September, 2023- Feb, 2024
* Secretary-General to South Asia Alliance for Disaster Resilience Institutes (SAADRI), instituted at IIT Roorkee platform: www.saadri.net
* Nurtured administrative, academic and professional interest of the Centre of Excellence in Disaster Mitigation and Management, IIT Roorkee as Head, CoEDMM during 2018-2021
* Coordinator- Housing Resource Centre under PMAY-HfA, 2016-19
* Member of Internal Complaints Committee (ICC) for Sexual Harassment at work place 2013-17
* Institute Architect; Working member of IIT Roorkee Campus Master Plan 2030-2050, 2012-2014
* GATE and JEE Examination Syllabus/ Question Paper Setting Team leader, member and invigilation
* Member of Executive Committee of Staff Club, IIT Roorkee for 2009-11
* Chief Adviser of Himalayan Explorers’ Club for 2011-12, and Staff Advisor 2007-11
* Member of Library Advisory Committee of IIT Roorkee during 2006-2013
* Member of WG on Intellectual Property Rights (IPR) Cell for IIT Roorkee 2004-2014
* Member of the Sports section, IIT Roorkee for the year of 2004-05

** Birla Institute of Technology, Mesra, India** September 2002-January 2003

Lecturer in the Department of Architecture

Responsibilities:

* Teaching undergraduate students

** Smt. J.D. Birla Institute of Home Science, Calcutta, India** July 1997-June1999

Lecturer

Responsibilities:

* Teaching students with backgrounds different from students of Architecture.
* A challenging job to teach students drafting and interiors and materials

** Jadavpur University, India**

Visiting Lecturer in the Architecture Department 1996-1997

Senior Research Fellow in the Architecture Department 1991-1995

Responsibilities:

* Teaching Construction to UG students
* Research work
* Teaching Assistantship

**WORK EXPERIENCE (Professional)** **6** **3/4 Years in total**

* **M/s Interdesign, Calcutta** July1999-August 2002

Associate Architect

Details:

* Water Spa project at Jaipur, India
* Residential School at Shantiniketan, West Bengal
* Pondicherry Ashram Library renovation project
* Revival of Star Theatre, Calcutta – an entry for Conservation Competition project
* UAL Bengal- a factory complex with residences, club, temple at West Bengal.
* Competition on Renovation of Accountant General’s Office for Bengal Circle ( a nineteenth century colonial building), Calcutta
* Member of National level winning team at Phase I for Architectural Design entry for the proposed complex of National Small Industries Corporation, New Delhi.
* Handbook in ACAD for HINDALCO’s Railway Ticket Booking Counter

** M/s C E Consultants, Calcutta** 1995-1997

Junior Architect

Details:

* Renovation project for library of Viswabharati Publication House, Calcutta
* Project Architect for Prawn processing unit at Ghoshpara, South 24 Pgs, West Bengal
* Design of Commercial Complex for ZillaParishad at Suri, Birbhum, West Bengal
* Local Hotel cum restaurant at Suri, Birbhum, West Bengal

** M/s Sanyalson & Associates, Calcutta** 1990-1991

Trainee Architect

Details:

* Cooperative Housing Complex in Garia, Calcutta
* Higher Secondary School building with laboratory block for Science section, Kolkata

**COURSE/ COMPETITION/ WORKSHOP/PANEL DISCUSSION ORGANISATION**

* Coorganized Disaster Awareness Training Program for "**Primary/ Secondary Education Intervention**" in association with SAADRI-YPP, CoEDMM and Unnat Bharat Abhiyan, Regional Coordinating Institute, IIT Roorkee on 28 Jan 2023
* Co-organized "**Technical workshop on Earthquake Early Warning System**”- jointly organized with SAADRI, CoEDMM-IIT Roorkee and NCDR- Taiwan, during 10-12 April, 2023
* Organized the **First Jai Krishna Memorial Lecture Series** –inaugural Speech delivered by Dr P K Mishra on 6th November, 2020 on virtual Platform
* Co-organized the Online Certificate Training on “**Risk Management of Biological Hazards in the context of pandemics”**; Collaborators Indo-Japan lab, Keio University, Japan, IIT Roorkee, FICCI/ARISE; RIKA India and GIDM; 12-16 October 2020
* Co-coordinator of the “**Social Innovation Online Hackathon (SIOH)”**, an Indo-Japan Innovation Initiative, Collaborators Indo-Japan lab, Keio University, Japan, and IIT Roorkee, IIT Hyderabad, VNIT Nagpur, NIT Durgapur and RIKA during 16 June - 25 August 2020.
* Lead- Member in one-on-one mentoring interaction with the finalists of **the GHTC- India cohort** under Research and Development theme in the **Accelerator Workshop for Affordable Sustainable Housing Accelerators** **– India (ASHA-India) under GHTC-India**, January 28-29, 2020, India Habitat Centre, New Delhi
* Coordinator of the UNSPIDER-IIT Roorkee 5-Days' India-International Training Programme on “**Space-based Information System for Ecosystem-based Disaster Risk Reduction (Eco-DRR)**” at IIT Roorkee during 25-29 November, 2019.
* Coordinator of the NIDM-IIT Roorkee 3-Days' National Training Programme on “**Climate Change, Hill Area Development and Landslides Management**" at IIT Roorkee during 5-7th December, 2019
* Conference Co-Chair for 8th APHW International Conference on **Emerging Technologies in Urban Water Management** during 22-23 November, 2019 with Preconference Day on 21 November, 2019 in IIT Roorkee
* Organizing Regular Distinguished Lectures at CoEDMM, IIT Roorkee since 2018
* Discussion on “**Malpa Landslides**” on 18th September, 2018 Centre of Excellence in Disaster Mitigation and Management (CoEDMM), IIT Roorkee in association with INAE Disaster Risk ReductionGroup.
* Workshop on **Risk and Safety Assessment of Built Environment in IIT Roorkee** on 21st March 2018, Centre of Excellence in Disaster Mitigation and Management (CoEDMM), IIT Roorkee
* Meeting on “Science and Technology for a sustainable future” on the National Science Day, 28th February, 2018, Centre of Excellence in Disaster Mitigation and Management (CoEDMM), IIT Roorkee followed by a Panel discussion on “**Role of CoEDMM in Campus Disaster Risk Reduction**”.
* Organizing Coordinator of **National Student Design Competition NSDC 2017** under PMAY, MoHUA
* Course Coordinator for 3-day National Short Term Course (STC) on **Modeling Techniques for Sustainable Built Environment** in IIT Roorkee from 17th -19th March 2017
* Course Coordinator for *GRIHA Council Training Programme* for students of M. Arch and MURP in IIT Roorkee during 1-2nd September, 2016
* Course Co-Coordinator for six-day National Training Programme for students of Architecture on "**Earthquake Resistant Building Design**” held in IIT Kanpur during 6-11th July 2015
* Programme Coordinator for 3- Day National Workshop on “**Research Methodologies for Sustainable Built Environment**” in IIT Roorkee during 16-18thOctober, 2014
* Conducted 2-day workshop on “**Thermal comfort in warm Humid Climate**” for Architecture students of Gitam University, Vishakhapatnam during 7-8 August, 2014
* Course Co-Coordinator for six-day National Training Programme for students of Architecture on "**Earthquake Resistant Building Design**” held in IIT Kanpur during 2-7th July 2012
* Programme Co-Convener for “**Disaster Mitigation Day**” organized on behalf of the Institute of Engineers (India), Roorkee Local Chapter on 12th October, 2011
* Programme Coordinator for Two-day National Training Programme on " **Sustainable Building Services Design to Mitigate Anthropogenic Hazards**" held in IIT Roorkee during 26-27 Feb, 2011
* Programme Coordinator for Two-day Training Programme on “**Sustainable Design and National Green Rating for Building: GRIHA**” held in IIT Roorkee, 4-5th December, 2010
* Organizing Secretary for the National Research Conference on “**Disaster Mitigation in Housing in India: An Agenda for Future** (HDMFA2010) held during 19-20th March, 2010 in IIT Roorkee
* Programme Coordinator for Two-day Training Programme on “**Energy Efficiency and Green Rating for Building (GRIHA)**” held during 24-25 Oct, 2009
* Organizing Secretary for the National Seminar on “**Research activities in Disaster Mitigation for Housing in India (HDMR 09)**” held 22-23rd August, 2009 in IIT Roorkee
* Organizing Secretary for the National Seminar on **“Housing and Disaster Mitigation Efforts in India: Case-studies(HDME-09)** held on 18th April, 2009 in IIT Roorkee
* Organized the Panel discussion on **“Resiliency, Responsibility and Research for Safer Housing”** on 18th April, 2009 as part of the National Seminar HDME-09, in association with United States Indo-American Foundation
* Coordinated for USIEF’s **Outreach Programme** for Students and Faculties in IIT Roorkee, on 17th April, 2009
* Member of Organizing Committee for International Conference **“Knowledge Sharing and IP Management: Evolving Strategies for Asia-Pacific” (KIPASPA)** held in January 29-31, 2009 in IIT Roorkee as an activity of IPR Cell, IIT Roorkee
* Coordinated One-week workshop on “**The Earthquake resistant building Design and Construction**”, under the aegis of Ministry of Human Resources and Development, in the *National Programme for Earthquake Engineering Education* on behalf of Department of Architecture & Planning, IIT Roorkee, during 28th August to 1st September, 2006,
* Coordinated One-week workshop during 8-12th August, 2006, Third Training of Trainers (TOT) Programme on **Earthquake Resistant Building and Construction** under the aegis of *Ministry of Home Affairs* in the National Programme for Capacity Building of Architects in Earthquake Risk Management on behalf of Department of Architecture & Planning, IIT Roorkee
* Coordinated One-week workshop on “**The Earthquake resistant structures for Architecture**”, under the aegis of Ministry of Human Resources and Development, in the *National Programme for Earthquake Engineering Education* on behalf of Department of Architecture & Planning, IIT Roorkee, during 8-12th August, 2005
* Member of organizing committee for the two-day National workshop on **IPR curriculum for Engineering and Science students** in IIT Roorkee, 18th – 19th March, 2005
* Coordinated One-week workshop in March, 2005; 2nd Training of Trainers (TOT) programme on **Earthquake Resistant Building and Construction** under the aegis of *Ministry of Home Affairs in the National Programme* for Capacity Building of Architects in Earthquake Risk Management on behalf of Department of Architecture & Planning, IIT Roorkee
* Coordinated the student competition on **Innovative Bamboo structure** during the Cognizance, 2005 the *annual Technical Festival* of IIT Roorkee, 4- 6th of March, 2005
* Coordinated One-week workshop in February, 2005 First Training of Trainers (TOT) Programme on **Earthquake Resistant Building and Construction** under the aegis of *Ministry of Home Affairs* in the National Programme for Capacity Building of Architects in Earthquake Risk Management on behalf of Department of Architecture & Planning, IIT Roorkee

**INVITED LECTURE PRESENTATION**

* Invited panellist on **'Implementation of NEP in Architecture Course'** at NIT Rourkela Online Workshop 20.06.2023
* Invited panellist in Re-solving session on “**Enabling the Next Generation of Infrastructure Professionals**” at ICDRI 2023, held on 4-6 April, 2023 in New Delhi by CDRI.
* Delivered invited talk on **Application Potential of EO Data for Urban Resilience** in the IIRS Academia Meet – 2023, held on 28 March, 2023 in Dehradun IIRS Campus
* Delivered invited talk on **Forecasting, Warning and Actions** in the SERB, Accelerate Vigyan, CoEDMM, and SAADRI Event FORESEED in Roorkee on 8th January 2023
* Delivered invited Chief Guest talk on **Our Commitments to Energy Conservation** to observe Energy Conservation Day Celebration by Quantum University, Roorkee on 14 December, 2022
* Delivered invited talk on **Thermal Stress and Built Environment** in the CoE-TRC and GITAM University organised National FDP on 12 December 2022
* Delivered invited talk on **Blue Green Infrastructure and their role in enhancing Resilience of Corridor Level Infrastructure in Urban Area** in the World Bank organised Workshop in Chennai on 8 December 2022
* Delivered invited talk on **Tale of 4 Cities: Science and Technology Advocacy in Risk Resilience** in the Disaster Management Action Frontiers, organised by CoEDMM & SAADRI. 10-13 October, 2022
* Delivered invited talk on **Thermal Built Environment** in the CoE-TRC and SPA-Delhi University organised National FDP on 12 October 2022
* Delivered invited talk on **MEDIate for Nature Based Solution** in the APMCDRR 2022 Working Session 10: Scaling up, scaling out and scaling deep: Innovations in Disaster Risk Management- on 22 September 2022
* Delivered invited talk on **Risk to Resilience- A Journey for Urban India**, organised by IEEE India Council Move Outreach Program, 30 April 2022
* Delivered invited talk on **Approaching Sustainable and Resilient Built Environment through Research,** in the short-term Course on *Research Methodology*, organised by NIT Patna, 11-15 April, 2022
* Delivered invited talk on **SAADRI – A Regional Alliance for Resilient Future** in the International Conference on Contemporary Issues of Climate Change (ICCICC), Lalitpur, Nepal. Organised by NSET. 8th April, 2022
* Delivered invited talk on **Ecosystem, Resilience and the Participatory GeoSM-NatE Tool** in the Seminar Series of Water Engineering and Development Centre (WEDC), Loughborough University, UK 28 October 2021
* Delivered invited talk **on Blue-Green Infrastructure for Systemic Risk Resilience of Asian Mega Cities** in IIASA (Vienna) Regional Conference “Systems Analysis in Asia”, 20-22 October 2021
* Delivered Lecture on **Participatory GeoSM-NatE for Community Adaptation of the BGI Potential Assessment and Strategic Implementation** in UNHABITAT’s INNOVATE4CITIES 2021 Conference: October 11 – 15, 2021
* Delivered Lecture on **Networks, Nature and Resilience** in the Conference Cum Training on Climate Induced Hydrological Disasters, Policies and Management; Session 1: Climate Change and natural disasters- Linkages, implications, and capacity development; Organised by NIDM, Govt. of India and Amity University. 7th-9th October 2021
* Delivered invited talk on **Role of Sustainable Architecture in Risk Reduction on** Sustainable Built-Environment in Hills (SBH 2021), Organized by the Department of Architecture NIT Hamirpur, HP. September 11 - 15 2021
* Delivered invited talk on **Techniques for Earthquake-
Resistant Sustainable Development** organized by NIDM and AIDMI, September 10, 2021
* Delivered invited talk on **Resilient Infrastructure and Nature-based Solutions** in the 5th GADRI Summit, 31st August – 1st September, 2021
* Delivered invited talk on **NbS for Coastal Urban Risk Reduction** in TAPESTRY Project - ‘Transformation as Praxis: Exploring Socially Just and Transdisciplinary Pathways to Sustainability in Marginal Environments’ organized by IIT Bombay, AIDMI; 26th August 2021
* Delivered invited talk on **Action-oriented research for Community resilience** in the 10th International Conference on Conflict Prevention and Management on **“**Disaster Management, Reconstruction and Peace”, Organized by Mahatma Gandhi International Research Centre, 5 August 2021
* Delivered invited talk on **Urban Risk Resilience** in Department of Environmental Science, Colombo University, Sri Lanka on 14 July 2021
* Delivered invited talk on **Use of glass in Earthquake-prone areas** recorded for Ethos and Glass Academy, India in July 2021
* Delivered Panel Talk on “**Resilience Science in Action: Nurturing Research Lab to Field Application**” in “Accelerating Adaptation in the Global South’ Session of Adaptation and Resilience theme (20 May, 2021) @ClimateExp0, 17-21 May 2021, organized by CoP26 Universities Network.
* Delivered Lecture on **Fostering Resilience Culture: Hospital safety and security practices in hospital buildings** in the National Conference on “Disaster Resilient Healthcare Infrastructure” organized by SPA Delhi and NIDM, 13-16 April, 2021
* Delivered Lecture on “**Intangible account of Blue Economy”** in the National Conference on ‘Blue Economy: Prospects & Challenges’ organised by Techno India University, Kolkata during 6-7 March 2021
* Delivered Lecture on **Industrial Ecology-based Resilience Planning** in the National Level e-Conclave on "Fostering Earthquake Resilience in Industries and Developments” organised by Chemical & Industrial Disaster Management (CIDM) Board at FICCI, National Institute of Disaster Management (NIDM), Engineers India Limited (EIL), Swiss Re and RMSI, during 8-9 October, 2020
* Delivered Lecture on **Nature-based Solutions to Climate Change Mitigation** in the online Training Programme “Climate Change: Challenges and Response” for Scientists and Technologists from 14- 18 December, 2020 at Centre for Disaster Management, Lal Bahadur Shastri National Academy of Administration; Mussoorie
* Delivered Expert talk on **Experiencing interdisciplinary collaborative projects – with an Integrated URR approach** in the IDRiM Virtual Workshop for Interactive Discussions Between Senior and Early-Career Scientists organised by DPRI- Kyoto University during 23-24 September 2020
* Delivered Lecture on **Ecosystem-centric Urban Risk Management** in the Global webinar on 'Post-Covid Planning, Design, Construction and Facility Management of Healthcare Facilities’ Organised by School of Planning and Architecture, Delhi and FICCI on 28 August 2020.
* Delivered Lecture on **Challenges of Building Earthquake Resilience in Urban Area** in the Webinar on Urban Context: Building Earthquake Resilience, Organized by National Institute of Disaster Management (NIDM) on 27 Aug 2020 to commemorate 60th Anniversary of the M6.0 Delhi Earthquake of August 27, 1960
* Delivered keynote Lecture on **Role of architects and stakeholders in disaster management** in Webinar mode for students of the Sri Sri University, Gujrat on 26 August 2020, organized by TARU and the Sri Sri University.
* Delivered Lecture in the 7-days’ online Short Term Course on **Disaster Management** during 7-13 August, 2020 organized by the Department of Civil Engineering of University Institute of Technology-RGPV, Bhopal and Disaster Management Institute, Bhopal
* Delivered Lecture in the **Eco-DRR Training in Conservation and Green Development** **in Uttarakhand** in virtual mode in June 2020, and online discussion session on 21 August 2020 organized by Pragya International, and Government of Uttarakhand.
* Delivered Lecture in the TEQIP III programme on **Communities at Risk and Disaster: An Interdisciplinary Perspective**, in IIT Delhi during 24-28 Feb 2020
* Delivered Lecture in the Training Programme on **Climate Change Challenges and Response** for women scientist from 10-14 February, 2020 at Centre for Disaster Management, Lal Bahadur Shastri National Academy of Administration. Mussoorie.
* Delivered Lecture on “**Infrastructure and Resilience in Indian Cities**” in the Workshop on Building Disaster and Climate Resilience in Cities during 15-16 October 2019 organized by the Asian Network on Climate Science and Technology (ANCST) coordinated by SEADPRI Universiti Kebangsaan Malaysia, Kuala Lumpur, Malayasia
* Key Discussant in the Panel discussion session **of Higher Education & Research Promotion Strategies** during the CAP-RES-22 International Symposium on “Disaster Resilience and Green Growth for Sustainable Development” organized by NIDM, India during 26-27 September, 2019
* Delivered Lecture on “**Blue-Green Infrastructure”** during the United Nations International Conference on Space-based Technologies for Disaster Risk Reduction - "A Policy Perspective" and Commemoration of 10 Years of UN-SPIDER Beijing Office, 11-12 September 2019, Beijing, China
* Delivered IDMR Special Lecture on “**Urban Water stress: Tool based Analysis and Nature-based Solution”** during the Brainstorming Session organized by Association of Associations at IDMR, Sichuan University, China on 4th July, 2019
* Presented “**Role of the Centre of Excellence in Disaster Mitigation and Management in the DRR Landscape”** during HUC Network for DRR at IDMR, Sichuan University, China during 30 June- 3 July, 2019.
* Delivered Lecture on **Role of Science and Technology in Urban Resilience and Eco-DRR** in the Inception workshop on Ecosystem based disaster risk reduction June 6-7, 2019 at IIC, New Delhiorganized jointly by UNEP-AP and Wetlands India.
* Delivered Lecture on “**Review of** **Existing Sample Curriculum towards Disaster Risk Reduction in Engineering Study- a model case the COEDMM –IIT Roorkee”** in the event of “National Consultation meet on Indian University Network” organized by NDMA and UNISDR, held at New Delhi 5-6 April, 2019
* Delivered Lecture on “**Changing pattern of Urban Climate with an Analysed Case from India**” in the GADRI Summit Pre-event on “Efforts and Responses to Major Disasters Around the World: Narratives and Communications” on 12th March, 2019 in Kyoto, Japan
* Delivered Lecture on “**Sustainable and Resilience neighbourhood planning/design**“ in the Faculty Induction Programme on “Disaster Risk Management For Built Environment” held during 7-11 January, 2019 in MEASI, Chennai, India
* Delivered Lecture on “**Blue-Green Ecosystem Health Monitoring Techniques for Urban Risk Reduction**” in the Session on *Earth Observation for Assessing Resiliency of Ecosystem as an Instrument for Disaster Risk Reduction* during the United Nations International Conference on Space-based Technologies for Disaster Risk Reduction - "Enhancing Disaster Preparedness for Effective Emergency Response", 24-26 October 2018, Beijing, China
* Delivered Lecture on “**Green Urban Space & ‘GUC-3CC’ Framework to Mitigate Urban Climate Modifications**” at Architecture and Landscape Department of Penn State University, USA on 14th August, 2018
* Delivered Lecture on “**Blue-green network and urban infrastructure development**” at the Thematic Event on Ecosystems-based Disaster Risk Reduction in the 2018 Asian Ministerial Conference on Disaster Risk Reduction ([www.unisdr.org/amcdrr2018](http://www.unisdr.org/amcdrr2018)) during 30 June-6 July, 2018
* Delivered Invited Lecture on “**Glocal Connect and Knowledge Share in DRR** “during the National level training programme on “Knowledge Management for Disaster Risk Reduction and Resilience (KM4DRR&R)” during 23 - 27 April 2018 , NIDM, Delhi
* Presented talk on “**Institutional role of CoEDMM in disaster risk resilience**” at DPRI, Kyoto University, Japan at GADRI board Meeting 15 March, 2018
* Delivered Lecture on ‘**Sustainable Studio Designs’** and ‘**Urban Risk and Research**’ in BinUCom Workshop organized by KRVIA and EU in Mumbai during 15-16th September, 2017
* Delivered Lecture on “**Urban Resource Conservation to save Energy**” in the triennial IWSA Conference on “Sustainable Development in India: Role of Science and Technology” organized by IWSA, Navi Mumbai on 2-4 December, 2016
* Delivered Key-note Lecture on **“Natural** **Resources for Climate responsive design**” in the workshop on “Importance of Climatology in Architecture” In SRM College, Muzaffarnagar in October, 2016
* Delivered Lecture on “**Planning and design aspects for Housing**” in the Sensitization Programme on “Good Construction Practices including Emerging Technologies for housing” organized by BMTPC in association with Government of Uttarakhand in Dehradun, Uttarakhand on 27th September, 2016
* Delivered Lecture on “**Green Resilient Urban Infrastructure**” in Sustainable and Efficient Structures in Smart Cities, organized by IIT Roorkee-NBCC R&D Centre at Greater Noida Extension Campus, IIT Roorkee on 17th September, 2016
* Lecture on “**Green, Resilient and Future City – Bhagalpur Smart City”,**” in Bhagalpur Smart City Seminar, organized by Bhagalpur College of Engineering, 26-27 August, 2016
* Delivered lecture on “**Research Methods for Urban Risk Study**” on 24 June, 2016 for Global Survivability Studies Program, Kyoto University
* Delivered Lecture on “**Green, Resilient Infrastructure” in the** 7th International Conference on Water Resources and Environment Research (ICWRER2016),Kyoto TERRSA, Kyoto, Japan, June 5-9, 2016
* Delivered Lecture on “**Urban Heat Island and Research Methods**” in the SPA, New Delhi on 19th March, 2016
* Delivered lecture on “**Curative Next-Gen Urban Ecosystem”** in the Training Programme "Urban Pollution: Engineering and Strategic Planning to Combat Air Pollution" during February 8-12, 2016 at IIT Delhi on11th February, 2016
* Delivered lecture on “**Building Science, Urban Infrastructure and Human Beings**” in the 65th GCOE-ARS Seminar Graduate school of Engineering, Uji Campus, Kyoto University on 15th Jan, 2016
* Mukherjee, M 2016, ‘’**Next-gen Urbanization'’** *in Bi-Lateral Seminar on Kyoto University Initiative for Strengthening Collaboration between India and Japan,* 14 January 2016, Kyoto, Japan
* Delivered Lecture on “**Architectural Considerations and Guidelines for Earthquake Resistant Design of Buildings,**” in Patna organized by Bihar State Disaster Management Authority (BSDMA) on 27th May, 2015
* Delivered Lecture on “**Prototype design and planning of Affordable Green Housing for Doaba Region**” organized by Building materials and technology Prevention Council (BMTPC) Jalandhar, March, 2015
* Delivered Lecture on “**Prototype design and planning of Affordable Green Housing**” in Kolkata meet organized by Bengal Chamber of Commerce and Industry (BCCI) and Building materials and technology Prevention Council (BMTPC) on 23rd Dec, 2014
* Delivered lecture on “**Motivational Practices to unlocking creativity**” in Training of Trainers (ToT) program on *“Harnessing the Researcher to Promote sustainable Innovation”*organized by IPR Cell, IIT Roorkee from September 02-06, 2014
* Delivered lecture on “**Sustainable Cities and Towns in Jharkhand”** at the Ist Build Jharkhand Conference at Ranchi organised by Jharkhand Government during 30-31st October, 2013
* Delivered lecture in the 2-weeks INAE summer training on “**Engineering input required for Disaster Mitigation & Management”** for UG Engineering students, organised by Centre of Excellence in Disaster Mitigation & Management and Department of Earthquake Engineering, IIT Roorkee during June 5-19, 2013
* Presented “**Beyond the building: Energy efficient surrounding is future of India”** in the CIB Task Group 66 Webinar on "*The Implementation of Energy Efficient Buildings Policy in India and Beyond*" organized by CIB, the Netherlands, 28 June 2012
* Delivered lecture in the SAARC Training Programme on “**Techniques for Earthquake Resistant Structures for Engineers and Architects”** organised jointly by SAARC Disaster Management Centre, New Delhi and Centre of Excellence for Disaster Mitigation and Management, IIT Roorkee; June 18-29, 2012.
* Delivered talk on “**Connect with the Nature is Future of Urban India”,** presented in National Consultation on “Development, Construction and Dissemination of Cost Effective Technologies” organized by BMTPC, India Habitat Centre, New Delhi, 29th May 2012
* Presented “**Town & Country planning Legislation for safety in natural hazards**” in the Advocacy Programme on “Mainstreaming DRR in Housing Sector” organized by DMMC, Dehradun on 18th Nov, 2011.
* Delivered lecture on “**Design Strategies for Green Architecture”** in Shivalik College of Engineering, Dehradun on 5th Nov, 2011
* Delivered lecture on “**Building Construction Practices”** in Shri Ram School of Architecture on 22nd October, 2011
* Faculty Resource for the National Workshop on “**Earthquake Resistant Practices For Undergraduate Students of Architecture”** organized by NICEE, IIT Kanpur during 4-9 July, 2011 in IIT Kanpur
* Delivered lecture on 26th May,2011 on “**Energy Efficiency and Conservation”** for Officials from EEA of Ethiopia–International Training Course organised by AHEC, IITR held during 16—28 May, 2011
* Panelist in the Advocacy Workshop on mainstreaming Urban Risk Reduction into Development Plan/ Projects/ Programme and presented **Urban Risk Reduction in City Planning,** organized by DMMC and JNNURM, Uttarakhand, held on 19th October, 2010 in Dehradun
* Faculty Resource for the National Workshop on **Earthquake Resistant Practices For Undergraduate Students of Architecture** organized by NICEE, IIT Kanpur during 12 – 17 July 2010, IIT Kanpur
* Panelist in the Regional Consultation Workshop on Urban Risk Reduction and presented **Applicability of Building byelaws to Reduce Urban Risk,** organized by UNDP and DMMC, Uttarakhand, held in Nainital on 8-9 July, 2010.
* Delivered lectures on 8th and 9th June, 2010 in the **Disaster Mitigation and Management for UG Civil Engineering Students**–Summer Training Course organised by CoEDMM held during June 1-30, 2010
* Delivered lecture on 24th March, 2010 on **Balancing Urban Water Stress** in the International Short-term Training Course on “Urban Flood Modeling and Drainage Design” organised by Hydrology Department, IIT Roorkee, held during March 22-27, 2010
* Panelist in the session of **Conservation through Green Building** for the Conference **Environment Summit** on the occasion of National Pollution Prevention Day & National Conservation Day, being organized jointly by **CII**, Uttarakhand Council of Science& Technology(**UCOST**) and Uttarakhand Environment Protection and pollution Control Board (**UEPPCB**) on 2-3 December 2009 at Dehradun, India
* Faculty Resource for the National Workshop on **Earthquake Resistant Practices For Undergraduate Students Of Architecture** organized by NICEE, IIT Kanpur during 06 – 11 July 2009, IIT Kanpur
* Lecture in the SAARC Course on **Earthquake Disaster Management** organised jointly by SAARC Disaster Management Centre with Centre of Excellence for Disaster Mitigation and Management, IIT Roorkee during 30th March- 4th April, 2009
* Delivered classroom lectures on Earthquake Basics and introduced the software RESIST and conducted Studio classes for the entire duration in the “**National Workshop on Earthquake Resistance Practices for Students of Architecture**” organized by NICEE, IIT Kanpur during July 3-8, 2008
* Presented the invited talk on Global warming and Human habitation the occasion of USEFI-EWC Alumni Meeting on **'Global warming and climate change'** organised by United State Education Foundation in India, New Delhi on June 25, 2008
* Presented the lecture on *Passive Architecture- Learning from Tradition* in the course titled as “**Environment-friendly Civil Engineering Design Programme**-**2006**” for the ONGC officers organized by Continuing Education Centre of IIT Roorkee during March 27-31, 2006
* Presented the invited talk on Challenges in House construction at present in India in the seminar “**The Changing Face of South Asia: Society, Culture and environment**”*,* organized by Centre for Built Environment (CBE) in collaboration with SASNET, Sweden on December 13,2005
* Presented the Lecture on *Energy efficient building design basics, Passive Architecture and Daylighting* in the course on “**Environment-friendly Civil Engineering Design Programme-2005**” for the ONGC officers organized by Continuing Education Centre of IIT Roorkee during March 14-18, 2005
* Presented an invited talk on *Sustainable Human Habitat* on the occasion of 150th Anniversary of American Society of Civil Engineers, organized by ASCE in Kolkata, 2002.

**ATTENDING TRAINING COURSES/ CONFERENCES/MEETINGS/ WORKSHOPS/ CONSULTATION**

* **2021**
* IIT Bombay-led Multi-country/ organisations TAPESTRY Project - ‘Transformation as Praxis: Exploring Socially Just and Transdisciplinary Pathways to Sustainability in Marginal Environments’, held on 26th August 2021
* UKRI COP26 Adaptation and Resilience post-event workshop, held on 3rd June, 2021; UK (online)
* Disaster Resilient Infrastructure (DRI) DRI Dialogue organised by CDRI held on 5 March 2021 at New Delhi
* Asia-Pacific Science, Technology and Academia Advisory Group (APSTAAG) Board Virtual Meeting on 26 February 2021
* South Asia Alliance of Disaster Research Institutes (SAADRI) Board of Directors’ Virtual Meeting on 6th January, 2021
* **2020**
* 5-day Training Module for “**Eco DRR Training in Conservation and Green Development in Uttarakhand**” in virtual mode organized by Pragya International since June 2020.
* 5 day TEQIP III workshop/training on **'Communities at Risk and Disaster: An Interdisciplinary Perspective**' during 24-28 Feb, 2020 in IIT Delhi
* **2019**
* North-Western Himalayan Regional Workshop on the **Challenges of Disaster Risk Reduction in Hill Towns** during 22-23October 2019 at Shimla, Himachal Pradesh
* Asia-Pacific Science, Technology and Academia Advisory Group (**APSTAAG) Board Meeting** on 6-17 October 2019 in Kuala Lumpur.
* UNOOSA’s **International Charter PM Training** on 10th September, 2019 in NDRCC, Beijing China
* **India Building Regulatory Capacity Assessment Workshop for Disaster Risk Reduction in Buildings** organized by Uttarakhand State Disaster Management Authority (USDMA) in partnership with The World Bank, 18 July, 2019 in Dehradun
* UNDRR’s **Global Platform Conference, 2019** in Geneva organized by UNDRR during 15-17 May, 2019 and brought the issue of the Blue-Green Infrastructure for Discussion in Eco-DRR and City Resilience Session.
* Attended **Science and Technology Advisory Group Meeting** at UN Office in Geneva organized by UNDRR during 13-14 May, 2019.
* Attended the event of “**National Consultation meet on Indian University Network**” organized by NDMA and UNISDR, held at New Delhi 5-6 April, 2019
* Attended Meeting with Secretary, MoHUA-GoI to discuss **Blue-green infrastructure - strategic inclusion in smart urban India** on 3rd April, 2019
* Attended the **GADRI Summit** during 13-15th March, 2019 in DPRI- Kyoto University, Kyoto, Japan
* Attended Global Housing Technology Challenge (GHTC- 2019) organized by MoHUA, Government of India during 2-3rd March, 2019 as **Jury Member for Potential Technologies and Processes for Incubation and Acceleration** in New Delhi.
* **2018**
* Attended ASTAAG (UNISDR) Meeting in Sendai, Japan from 30th November to 1st December, 2018.
* Chaired the Session on **Earth Observation for Assessing Resiliency of Ecosystem as an Instrument for Disaster Risk Reduction** during the United Nations International Conference on Space-based Technologies for Disaster Risk Reduction - "Enhancing Disaster Preparedness for Effective Emergency Response", 24-26 October 2018, Beijing, China
* 10th International Conference on Urban Climate, 6-10 August 2018 in City University, New York, USA,
* The UN Conference AMCDRR 2018, 3-6th July, 2018 at Ulaanbaataar, Mongolia
* The GADRI Board Meeting at DPRI, Kyoto University, Japan, 14-15 March, 2018
* **2017**
* 4th WIT International Conference on *Water and Society,* in Seville, Spain, 5-7 June, 2017
* *Sustainable Built Environment 2017* in the Department of Architecture and Planning, IIT Roorkee, 3-5 Feb, 2017, Roorkee, Uttarakhand
* **2016**
* Project Monitoring Committee Meeting for the Center for Building Energy Research and Development (CBERD) held on 22-23 September 2016 in Ahmedabad
* Building Bye-Laws meeting, Uttarakhand Government, Dehradun on 24th August, 2016
* MoHUPA- Housing for All Meeting in India Habitat Centre, New Delhi 12 Aug, 2016
* 7th International Conference on Water Resources and Environment Research (ICWRER2016), Kyoto TERRSA, Kyoto, Japan, June 5-9, 2016
* Project Monitoring Committee Meeting for the Center for Building Energy Research and Development (CBERD) held on 15-16 February 2016 at Hyderabad.
* **2015**
* 4thInternational Workshop on Sustainable Mountain Development during 7-9th October, 2015 in Itanagar, 2015
* National Workshop on Sustainable Built Environment (SBE) during 10-12nd April 2015 in Department of Architecture and Planning, Indian Institute of Technology Roorkee
* Indo-U.S. Joint Clean Energy Research and Development Centre (JCERDC) Centre for Building Energy Research and Development (CBERD) Third Project Monitoring Committee Meeting on 1-2 June 2015 in IIT Bombay
* **2014**
* Project Monitoring Committee meeting for the *Centre for Building Energy Research and Development (CBERD) project*scheduled for 29th September 2014;
* Training program for Master Trainers on ECBC at Jaipur during 12- 13thSeptember 2014
* Workshop on Environment Friendly Siting and Site Master Planning of New Industrial Parks at Auroville, during 12-15th June, 2014
* **2013**
* Ist Build Jharkhand Conference at Ranchi on 30-31st October, 2013 organised by Jharkhand Government
* Syllabus Restructuring Workshop-III, Organized by Department of Architecture and Planning, IIT Roorkee in IITRoorkee during 12-14th September, 2013
* Syllabus Restructuring Workshop-II, Organized by Department of Architecture and Planning, IIT Roorkee at Samode Palace during 13-14th August, 2013
* Workshop on frame work of common courses for B. Tech and B. Arch Program at NIT Patna on 20- 21 July 2013
* Syllabus Restructuring Workshop-I, Organized by Department of Architecture and Planning, IIT Roorkee at Greater Noida Campus, on1st May 2013
* **2012**
* CIB Task Group 66 Webinar on "**The Implementation of Energy Efficient Buildings Policy in India and Beyond**" organized by CIB, the Netherlands, 28 June 2012
* National Consultationon **Development, Construction and Dissemination of Cost Effective Technologies** organizedby BMTPC, at India Habitat Centre, New Delhi, 29 May 2012
* National Conference on **Pre-Engineered & Innovative Techniques in Construction Industry”**, organized by Indian Building Congress at Hotel Swissotel, Kolkata, 25-26 May 2012
* **2011**
	+ International Conference on **Responding to Climate Change in the Caribbean**, held in University of London, United Kingdom, 13-14 June 2011
	+ Workshop on **Japan Multi-disaster: Earthquake, Tsunami, Fire & Nuclear radiation,** held in IIT Roorkee during 26-27th March, 2011
* **2010**
	+ Brain Storming Workshop on **Seismic Retrofitting Policy** held on 22nd October, 2010 at Indian Institute of Technology Gandhinagar, Chandkheda, Ahmedabad
	+ Brainstorming session on “**Cost-effective building materials and construction technologies: problems & prospects**” organized by Building Material and Technology Promotion Council ( BMPTC), India held on 27th August, 2010
	+ Regional Consultation Workshop on “**Urban Risk Reduction”** and organized by UNDP and DMMC, Uttarakhand, held in Nainital on 8-9 July, 2010.
	+ A discussion meeting on “**Housing Typologies in Earthquake prone areas**” organized by IIT Hyderabad in association with National Disaster Management Authority, New Delhi, held on 26th April, 2010 in Hyderabad.
	+ **International Housing Conference 2010 – “Sustainable Housing: Charting New Frontiers”** organized by Housing Development Board, Singapore Government, held during 26- 29 Jan, 2010 in Singapore.
* **2009**
	+ **Environment Summit** organized jointly by **CII**, Uttarakhand Council of Science& Technology (**U-Cost**) and Uttarakhand Environment Protection and pollution Control Board (**UEPPCB**) on 2-3 December 2009 at Dehradun, India
	+ **10th APSA International Congress 2009**, CEPT, Ahmedabad, India, 24-26 Nov, 2009
	+ **2nd India Disaster Management Congress**, NIDM, Govt of India, Vigyan Bhawan, New Delhi, 4-6 Nov, 2009
	+ **GRIHA Training Programme for Evaluators & Trainers,** TERI\_GRIHA, New Delhi, 2nd -4th Sept, 2009
	+ **Urban Sustainability and Green Buildings for the 21st Century**, UK-India Conference organised by RICS, OBU and , held at India International Centre, New Delhi on 15th May, 2009
	+ **Open Science Seminar** on *Climate Change and Himalayan Glaciers***,** organised by TERI, held at India Habitat Centre, New Delhi on 13-14th May, 2009
* **2008**
	+ **XXXVI IAHS World Congress on Housing Science**, organised by IIT Kharagpur, India, held in Kolkata during 3-7th November 2008
	+ USEFI-EWC Alumni Meeting on **'Global warming and climate change'** organised by United State Education Foundation in India, New Delhi on June 25, 2008
	+ 2008 Annual PACE Research Seminar on **“ Building Collaboration”,** held at the Pennsylvania State University, Pennsylvania, USA, on April 22-24, 2008
	+ **Fulbright Visiting Scholar Conference, 2008** organized by the Institute of International Education, the United States Department of State Bureau of Educational and Cultural Affairs, Washington D.C., and held in Denver, CO, USA, on April 2-5, 2008
	+ WISE Annual conference: VOICE 2008- a Networking Conference for Women Graduate Students in Science and Engineering, held in Pennsylvania State University, Pennsylvania, USA, March 2, 2008
	+ 2008 EERI Annual Meeting on the theme: **Hurricane Katrina -- Lessons For Earthquake Risk Reduction**, organized by Earthquake Engineering Research Institute, California, USA and held at New Orleans, Louisiana, USA, on February 6-9, 2008
* **2007**
	+ 2-days workshop on *“***Emerging Global Job Competencies”** on 25-26 March,2007 organised by *IPR Cell, IIT Roorkee*
	+ 1 day Workshop on **“ Developing a model for promoting Institute- Industry Linkages for IP creation and management”** on 24th Feb organised by *IPR Cell, IIT Roorkee*
	+ 3 1/2 weeks International Certificate course on **“Organised Self-help Housing- 2007” in Costa Rica** during 22nd Jan to 14th Feb, organised by *SIDA and FUPROVI***.**
	+ One-day International Seminar on **“Housing conditions in Developing countries”** in San Jose, Costa Rica on 23rd Jan, 2007 organised by HDM, Lund University and University of San Jose, Costa Rica
* **2006**
	+ One-week short-term certificate course on ***“*Non-linear seismic analysis of Structures”** *at IIT Kanpur, India* during 14th to 18th October
	+ Two-day National workshop on **“IPR curriculum for Engineering and Science students”** in *IIT Roorkee* during 18th – 19th March
	+ One-week workshop on **“Building High end structures in Bamboo”** at Kohima, Nagaland which was organized and supported by *the National Mission for Bamboo Application (NMBA), DST, Govt. of India* during 24th February to 2nd March
	+ One-week certificate course on **“Architecture for Earthquake Resistance of Buildings”** at IIT Kanpur, India organized by *NPEEE(National Program on Earthquake Engineering Education)*during 17th to 21st January
* **2004**
	+ National workshop on **“Introducing Earthquake resistant design in architecture curriculum”** organized by *NPEEE (National Program on Earthquake Engineering Education)* at IIT Kanpur, Kanpur on 28-29 November**.**
	+ Meeting of **‘National Resource Institutions’** under *NPCBAERM in Ministry of Home Affairs*, North Block, New Delhi in September
	+ National workshop on **“Building high-end structures in bamboo”** organized by *National Mission for Bamboo Application, DST* in New Delhi in August
* **2003**
	+ Three-day course on **‘Geographical Information Science’** in IIT, Roorkee
* **2002**
	+ One week **‘8th Women’s World Congress’** held at *Makerere University, Kampala, Uganda***,** July
	+ **IT Built International Conference – 2002,** organized by *IIT, Kharagpur****,*** *India*
* **2001**
	+ Two-day workshop on **‘Global Environment Facilities’** organized by *UNDP, UNEP and World Bank at Indian Institute of Management, Calcutta*
* **2000**
	+ Attending Conference to present paper in **‘New Millennium Housing Congress Singapore’** organised by *HD Board, Singapore*
* **1999**
	+ 1-week workshop/ seminar on **‘Balancing the load’,** organised by *IFRTD at Colombo, Sri Lanka*
* **1998**
	+ Meeting of **India Habitat Forum (INHAF)** in Banglaore**,** and became *one of the founder members* of the governing council of INHAF**.**
	+ The Asian Coalition for Housing Rights (ACHR) meet on **‘Building a regional direction and working process together’** in Bangkok, April 16-20**.**
* **1996**
	+ 12 weeks Advanced International Training Programme on **‘International Construction Management’** at *Lund University, Sweden* and presented a country report**.**
* **1994 to 1998**
	+ Took part in organisation of series of International Workshops, organised by *Centre for Built-Environment, Calcutta***;** on topics **- Housing Development and management, Architectural and Urban Conservation, Solar Architecture & Planning, Architecture : Future in Cities, Urban Agriculture and Sustainable Environment**
* **1991**
	+ 4 weeks training programme on **New Mud Block construction and related technologies organized** by *Centre for Application of Science and Technology*, Indian Institute of Science, Bangalore – 560 012, India.

**RESEARCH PROJECT**

* “**ENACT: Evaluating the feasibility and efficacy of integrated catchment-scale Nature-based solutions for Climate Change adaptaTion in India**” under Natural Environment Research Council, UKRI as Co-PI; Dr Tim Marjoribanks of Loughborough University, UK is PI, 5th October, 2021- 31 March 2022
* **COPREPARE**. University Grant Commission (UGC) and German Academic Exchange Service (DAAD). IGP 2020-2024. Project Team Member.
* “**Wazirabad Blue-Green Infrastructure - an innovative environmental Network for Urban Risk Reduction in Gurugram, NCR**” under WTI Call 2019 “Nexus of water with Energy, Food, Health”, August 2020- August 2023; Collaborating Implementing Partner GMDA, Gurugram. Grant Approved: 6975354 INR
* **Eco-system based Risk Resilience Planning for Sustainable Habitat in Himalayan Ecosystem,** NMHS-MoEF, April, 2019- August 2022; Grant Approved-18.96L
* **Translating urban spaces as strategic Energy and Water security measure,** DST-IPHEE, June 2017, PI, Grant approved: 50.92 L
* **Smart performance Roadmap for Airport Terminal Buildings,** DST-IPHEE, June-2017, Co-PI, Grant Approved: 111.38 L
* **Preparation of Standards & Specifications for Design and Planning of Affordable Innovative Green Housing,** BMTPC, New-Delhi, Grant Code: BMTPC- 742- APD dated January, 2014, Grant Amount Rs. 6.75 L. Completed
* **Documentation on Traditional Earthquake Resistant Building Technology available with SAARC Countries,** SDMC, Grant Code: SDC-703-DMC dated 25th April, 2013, Grant Amount Rs. 5.50 L. Completed
* **Surface transformation due to Urban dynamics in Institutional campuses and its Environmental impact,** UCOST, Grant Code UST-626-APD dated 8th May, 2012; Grant Sanctioned Rs. 5.63L. Completed
* **Earthquake Vulnerability and Loss appraisal for non-structural elements in the Campus Buildings: a roadmap,** DST File no. DST/23(576)/SU/2005, Co-PI- Dr. Yogendra Singh (EQD), *Completed & Report Submitted,* Project Cost: 6.50 L (appx)
* **Effects of Architectural Features on Wind Load in Buildings**, File No. UCS&T/R&D/Eng-3/06, PI : Dr. A. Gairola, under UCOST, *Completed & Report Submitted*; Project Cost: 5.69 L (appx)
* **From dawn to dusk-Transportation of Rural women to and from Calcutta metropolis:** International Research Project on behalf of Centre for Built Environment, Kolkata and supported by *International Forum for Rural Transportation and Development (ITDG) London, UK, 1997-98*; Project Cost: Rs. 40000/-

**CONSULTANCY PROJECT**

1. Capacity building, knowledge co-creation, experience sharing and community outreach in open-geospatial technologies and community-led mapping for selected countries in the Hindu Kush Himalaya. HUC-APN. Co-PI. IIT Roorkee. Outlay 12.50 L.2024-25
2. Design and Development of Early Warning and Response System for the State of Himachal Pradesh under World Bank Funded HPSRTP. TARU & IIT Roorkee. Co-PI. IIT Roorkee outlay 61 L. 2024-2025.
3. “Loss and damage estimation from Extreme Climate Events in Rice Crop Using Remote Sensing Based Information for Farmers’ risk reduction” under the Collaborative Regional Research Programme (CRRP) by APN. IIT Roorkee Outlay 10300 USD. 2023-25.
4. "Strengthen climate and disaster resilience in the North Eastern Region of India" under the World Bank, Co-PI from IITR, Project PI- E&Y Project outlay -49000USD(IITR). 30-June, 2022 to 23 April 2023.
5. Building Regulation for Resilience in Uttarakhand, TERI, PI, Consultancy Amount 7.10 L, 2018
6. Evaluation of the “Monolithic Construction with structural stay in place CR steel specially designed formwork system Housing Technology” w.r.t. Green and Sustainability Parameters, BMTPC, PI, Consultancy Amount: 2.50L, 2017
7. Institutional Consultancy to Smart City Dehradun, 2017
8. Technical inputs for establishment of State Institute of Hydrology and water management, Bikaner; PI: Dr. N K Goel; Project No. Hyd 1009/11-12.

**PUBLICATIONS (Conference Papers)**

* **National**
	1. Hudha, A S& Mukherjee, M 2015, ‘Creating Elderly Friendly Neighborhoods a Framework For Assessment’, *Sustainable Built Environment (SBE):proceedings of a National Conference in Department of Architecture and Planning, Indian Institute of Technology Roorkee*, 10-12nd April 2015.
	2. Arora, K & Mukherjee, M 2015, ‘Insight on Lively Environment of Slum Streets: Kolkata and Mumbai’, *Sustainable Built Environment (SBE): proceedings of a National Conference in Department of Architecture and Planning, Indian Institute of Technology Roorkee,* 10-12nd April 2015.
	3. Bansal, N, Mukherjee, M &Gairola, A 2015, ‘Smart Cities and Disaster Resilience’, *Sustainable Built Environment (SBE): proceedings of a National Conference in Department of Architecture and Planning, Indian Institute of Technology Roorkee,* 10-12nd April 2015.
	4. Doreshor, K, Shankar, R & Mukherjee M 2013, ‘Inclusive Planning for the basic Services to Urban poor (BSUP) under JnNURM- case Study: Surat’*, Indian Cities in Transition: proceedings of the 61st National Town and Country Planners Congress*, 8-10 Feb 2013; TCPO, Ahmedabad, pp. 246-249.
	5. Biradar, S, Mukherjee, M & Shankar, S 2012, *‘Sustainability Practices and Leadership in Higher Educational Institutes of India’,* Excellence in higher Education: a National Conference, 28-30 June 2012, Department of Management Studies, Indian Institute of Technology, Delhi.
	6. Bansal, N, Mukherjee, M &Gairola, A 2012, ‘[Sustainable Development-Crossroads at Urban Disaster Risk Management and Climate Change](http://www.linkedin.com/redir/redirect?url=http%3A%2F%2Fwww%2Egermany-and-india%2Ecom%2F%2E%2E%2E%2F111223_CREEDPS_SCHEDULE&urlhash=Axw0&trk=prof-publication-title-link)*’*, *Energy Efficient Design of Buildings: Seeking Cost Effective Solutions: proceedings of a National Conference*, 6-12 February 2012, DCRUST Murthal, India.
	7. Biradar, S, Mukherjee, M & Shankar, S 2012.‘Benchmarking - as a tool for sustainable buildings’ *Energy Efficient Design of Buildings: Seeking Cost Effective Solutions: proceedings of a National Conference*, 6-12 February 2012, DCRUST Murthal, India.
	8. Mohan, K, Flay R. G. J, Gairola, A, Mukherjee, M &Guha T 2010,‘Erosion tests forassessing wind speed amplification in the vicinity of tall buildings’, *Disaster Mitigation in Housing in India- an Agenda for Future: HDMFA2010 National Research Conference*, 19-20 March 2010, IIT Roorkee.
	9. Mohan, K, Gairola, A, & Mukherjee, M 2009, ‘Strategies for mitigating the adverse effects of Pedestrian level winds in the vicinity of tall buildings’,*Housing and Disaster Mitigation Efforts in India- Case-studies: HDME09 National Research Conference*, 18 April 2009, IIT Roorkee.
	10. Mukherjee, M 2000, ‘Habitat and Environment’*, Emerging issues of Environmental Management: a National Conference*, March 2000, Department of Business Management, Calcutta University.
	11. Mukherjee, M 2000, ‘Housing, Urbanization and Environment’, *Urbanization and urban Development: Past, present and future*, January 2000, Centre for Urban Economic Studies, Calcutta.
* **International**
1. Sharma, A., & Mukherjee, M. 2024. Assessing the effect of Nature-Based Solutions on Air Quality in a Residential Area of Delhi using ENVI-met. In A. W. Barbara Widera, Marta Rudnicka-Bogusz, Jakub Onyszkiewicz (Ed.), Proceedings of 37th PLEA Conference (pp. 1371–1376). PLEA. <https://plea2024.pl/?page_id=8073>
2. Kacker, K., Mukherjee, M., & Srivastava, P. 2024. Assessment of heat stress hazard at an intra-urban level: A case of Delhi, India. In A. W. Barbara Widera, Marta Rudnicka-Bogusz, Jakub Onyszkiewicz (Ed.), Proceedings of 37th PLEA Conference (pp. 464–469). PLEA. <https://plea2024.pl/?page_id=8073>
3. [S Kolay](https://scholar.google.com/citations?user=BXIySG0AAAAJ&hl=en&oi=sra), B Sihmar, & M Mukherjee. (2023)Ways of Seeing: An Eye-tracking Study of Natural Viewing Behaviour Towards Paintings. Conference  [*Proceeding of 14th AHFE International Conference on Human Factors in Communication of Design*- Applied Human Factors and Ergonomics. 20-24 July, 2023. Issue 90, 2023, 96-102 AHFE](https://books.google.com/books?hl=en&lr=&id=97LQEAAAQBAJ&oi=fnd&pg=PA96&dq=MUKHERJEE+MAHUA+IIT+Roorkee+2023&ots=jupfphysmV&sig=MH0VmcdPixkBqVkhWS5mlOGxpe8)
4. Chouhan, S., Narang, A., & Mukherjee, M. (2022). *Multi-Hazard Risk Assessment of Schools in Lower Himalayas: Haridwar District, Uttarakhand, India* (No. EGU22-4333). Copernicus Meetings.
5. Naorem, V., Jain, K., Mukherjee, M., & Abhishek, K. (2020). Comparing Sensors for Feature Extraction. In *International Conference on Unmanned Aerial System in Geomatics* (pp. 19-26). Springer, Cham.
6. Kumar, A., Sehgal, J., Mukherjee, M., & Goswami, A. (2019). Impact Zonation and Mitigation of UHI (…. through remote sensing & development of Blue-Green Infrastructure Network). in Conference Proceedings of 5th International Conference on Countermeasures to Urban Heat Islands (IC2UHI) 2019 December 2-4, 2019, Hyderabad, India
7. Tiwari, V., & Mukherjee, M. (2019, December). Development of Conceptual Framework for the Integrated Ground and Surface Water Management Based Master Plan for the Urban Region, Case Study: Ajmer, India. In AGU Fall Meeting Abstracts (Vol. 2019, pp. GH23B-1233).
8. Madapala, J., Mukherjee, M., & Sen, S. (2019, December). From disaster management plans to disaster risk reduction plans: A framework on spearheading paradigm shift in India. In *AGU Fall Meeting Abstracts* (Vol. 2019, pp. NH11B-0771).
9. Mukherjee, M., Madapala, J., Satheesh, A. and Mandal, A., *Performance–oriented Integration of Blue-Green Infrastructure in Indian Smart City Proposals*, Proceedings of 10th International Conference on Urban Climate, 6-10 August 2018 in City University, New York, USA
10. Mukherjee, M., Madapala, J., Khadse, A., & Singh, D. (2018, August). Performance-Oriented Integration of Blue-Green Infrastructure in Indian Smart City Proposals. In 10th International Conference on Urban Climate/14th Symposium on the Urban Environment. AMS.
11. Rahul, A., & Mukherjee, M. (2018, August). Impact Analysis of Deep Static Bluespace on Urban Heat Island: Case of Chandigarh. In *10th International Conference on Urban Climate/14th Symposium on the Urban Environment*. AMS.
12. Mukherjee, M., *Blue-Green Network and Urban Infrastructure Development*, in the Thematic Event on Ecosystem-based DRR in the UN Conference AMCDRR 2018, 3-6th July, 2018 at Ulaanbaataar, Mongolia
13. Mukherjee, M. (2017). Celebrating urban water, nature and ecological processes to mitigate urban risk. WIT Transactions on Ecology and the Environment, 216, 101-111.
14. De, B & Mukherjee, M 2017, ‘Determining Optimal Orientation for a Residential Neighbourhood in Warm Humid Climate’, *Proceedings of International Conference Sustainable Built Environment 2017 in the Department of Architecture and Planning*, IIT Roorkee, 3-5 Feb, 2017, Roorkee, Uttaranchal.
15. Arora, K & Mukherjee, M 2017, ‘Analyzing Roof zone Convective Cooling with respect to variation in Openings of Parapet’, *Proceedings of International Conference Sustainable Built Environment 2017 in the Department of Architecture and Planning*, IIT Roorkee, 3-5 Feb, 2017, Roorkee, Uttaranchal.
16. De, B & Mukherjee, M 2016, ‘Impact of Canyon Design on Thermal Comfort in Warm Humid Cities: A Case of Rajarhat-Newtown, Kolkata, India’, *Proceedings of 4th Annual international Conference on Countermeasures to Urban Heat Island, National University of Singapore*, 30 May- 1 June 2016, Singapore.
17. Mukherjee, M., Roy, U. K., Biswas, A., Arora, K., De, B. and Srivastava, A. (2016) ‘Changing paradigms of Affordable Housing in Independent India’, in *3rd Residential Building Design & Construction Conference* - March 2-3, 2016 at Penn State, University Park PHRC, pp. 12–28
18. Mukherjee, M 2016, ‘Next-gen Urbanization’ *in the Bi-Lateral Seminar on Kyoto University Initiative for Strengthening Collaboration between India and Japan,* 14 January 2016, Kyoto, Japan.
19. Mukherjee, M 2015, ‘Disaster Risk Reduction and Sustainability’ In 4th International Workshop on Sustainable Mountain Development, 7-9 October 2015, Itanagar, India.
20. Pawar, A. S, Mukherjee, M,& Sahu, S 2015, ‘Assessing thermal behaviour of LULC from micro-meteorological measurements’. *In the Proceedings of 3rd Annual International Conference on Advances in Architecture and Civil Engineering,* pp. 562–571. doi:10.5176/2301-394X\_ACE15.44
21. De, B & Mukherjee, M. 2014, ‘Urban Physics for tomorrow’s Urban Design’, *In the proceedings of 30th International PLEA Conference in CEPT University*, December 2014, Ahmedabad, India.
22. Rajendran, L P, Mukherjee, M & Chani, PS 2013, ‘Symbolic Manifestations of Socio-cultural Identity in Vernacular Architecture: A Case Study of Agraharam Housing in Triplicane; South India’, *In the proceedings of International Conference on CULTHIST ’13, organized by DAKAM (Eastern Mediterranean Academic Research Center) and hosted by MSGSU (Mimar Sinan Fine Arts University),* 24-25 October 2013, Istanbul, Turkey.
23. Mukherjee, M 2013, ‘Urban India: Challenges for green Infrastructure’, *in the proceedings of CESB 2013 International Conference on Sustainable Building and Refurbishment for next generations, organized by Czech Technical University in Prague in association with the CIB*, 26-28 June 2013, The Netherlands.
24. Bansal, N., Mukherjee, M. & Gairola, A. (2013). Urban Risk Management. *in the proceedings of International Conference on Challenges in Disaster Mitigation and Management organized by Centre of Excellence in Disaster Mitigation and Management, Indian Institute of Technology Roorkee*, 15-17 February 2013, Roorkee, Uttrakhand.
25. Mukherjee, M 2012, ‘Ushering Changes in Indian Cities’, *In the International Symposium "Cities under Change" organized by The Centre for Built Environment in Kolkata (Calcutta), India,* 17-19 October 2012, Kolkata, India.
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13. **Habitat and Environment Issues** in *Sustainable Development*, R. Khasnabis (ed), Department of Business Management, Calcutta University, Calcutta , 2003, pages 181-188
14. ***From dawn to dusk-Transportation of Rural women to and from the metropolis – Calcutta, India****, Balancing the Load- Women, Gender and Transportation*, P. Fernando& G. Porter (ed), International Forum for Rural Transport and Development, published by Zed Books, London, U.K. 2002, pages 225-234

**EDITING**

1. Editorial Advisory Board Member to Centre for Disaster Management Lal Bahadur Shastri National Academy of Administration publication on *COVID-19; Governance in India (*A Special Issue under Disaster Governance in India Book Series). ISBN: 978-81-928670-6-9. Series- 1-5, March,2024.
2. *Mukherjee, M. and Shaw, R. (Ed.) (2021) Ecosystem-Based Disaster and Climate Resilience: Integration of Blue-Green Infrastructure in Sustainable Development; Disaster and Risk Research: GADRI Book Series, Springer Nature Singapore.* [*https://doi.org/10.1007/978-981-16-4815-1*](https://doi.org/10.1007/978-981-16-4815-1)
3. *Disaster Mitigation in Housing in India*, Pre-Conference Proceeding Publication, Editor, Vol. I & II, The Centre of Disaster Mitigation and Management, 2010
4. *Lecture Notes for Training of Practicing Architects in earthquake Risk management, Ed. Board:* Shankar R., Mukherjee M., Chani P. S. and Gupta I., Department of Architecture & Planning, IIT Roorkee , Project No. MOH-154/APD/413, 2007

**PUBLICATIONS (Miscellaneous)**

1. Arakaki, S., Chigira, M., Cienfuegos, R., Collins, A., Cruz, A. M., Davis, C., Mukherjee, M. ... & Zodrow, I. (2023). Concept Notes for Group Discussion Sessions. In Global Summit of Research Institutes for Disaster Risk Reduction (pp. 171-202). Springer, Singapore.
2. Mukherjee, M. and Ravan, S. (2021), GeoSM-NatE for Urban Risk Resilience, Working paper
3. Loboguerrero, A. M., Gordon, C., Stringer, L., Mukherjee, M., Valentini, R., Mkuhlani, S., & Marchant, R. (2021). Accelerating Adaptation in the Global South. Cambridge.org; https://doi.org/10.33774/coe-2021-4q5wx
4. Mukherjee, M., Sangeeta, & Madapala, J. (2020). Sustainable Infrastructure Development, Risk Perception and Vulnerability Assessment in Indian Himalayan Region. IRDR Working Paper Series, 26 pages. doi: 10.24948/2020.07
5. Mukherjee, M 2017, ‘Knowing your client: Residents of Rental Housing’, Nirmaan Sarika, October 2017, BMTPC, MoHUA
6. Mukherjee, M 2016, Housing for Aspirant Future India: *to mark the occasion of the World Habitat Day on ‘Housing At the Centre’,* Nirmaan Sarika, October 2016, BMTPC, MoHUPA
7. Mukherjee, M. (2015). Inclusive Green Affordable Housing for All. *Brief for GSDR*. sustainabledevelopment.un.org
8. Mukherjee, M 2012, Seismic Safety of Non-structural Elements: *for Course Manual of* SAARC Training Programme on ‘Techniques for Earthquake Resistant Structures for Engineers and Architects’, organised jointly by SAARC Disaster Management Centre, New Delhi and Centre of Excellence for Disaster Mitigation and Management, IIT Roorkee; June 18-29, 2012

**ASSOCIATION WITH PROFESSIONAL ORGAISATIONS**

* Council of Architecture India (CA/90/13407)
* International Council for Research and Innovation in Building and Construction (CIB), Netherlands (past member)
* The Association of Engineers (A/251)
* Centre for Built-Environment, India
* Fulbright Alumni Association
* ISET, IIT Roorkee
* GADRI Board Member, DPRI-Kyoto University
* UNDRR- APSTAAG Board Member
* Secretary General and Founder Member, South Asia Alliance for Disaster Research Institutes (SAADRI) www.saadri.net

**PROFESSIONAL ENGAGEMENTS**

* UGC nominee to the Board of Governors (BoG),SPA Bhopal, July 2024-2029
* Member, PG-BoS, Department of Architecture, Deenbandhu Chhotu Ram State University of Science and Technology, Murthal, Sonipat, Haryana; May 2024
* Member, BoS in Architecture, Department of Architecture, Faculty of Technology and Engineering, the Maharaja Sayajirao University of Baroda, Vadodara, Gujarat, September, 2023- September, 2026
* Member, BoS for Architecture, GITAM School of Architecture, Vizag, Hyderabad & Bengaluru; June, 2023- 2026
* Member of Board of Studies for Amity School of Architecture & Planning, U.P., Feb, 2022-2024
* Member, UG- BoS, Department of Architecture, NIT Patna; September 2021-23, 2023-25
* Expert Member of Academic Advisory Board (AAB)for Bachelors Program in Architecture (B.Arch) ,Amity School of Architecture & Planning for Academic year 2021-22 to 2023-24
* Governing Body Member, Centre for Disaster Mitigation, LBS National Academy of Administration, Mussoorie-248179, Uttarakhand, India, 2019-2021.
* National Committee member for developing course material for earthquake resilient design studio for NDMA, 2018
* Member, Research Committee, Department of Architecture, School of Planning and Architecture, New Delhi, 2018-20
* Member, BoS, Department of Architecture, Central University of Rajasthan, 2017-19
* Coordinating National Student Design Competition as part of Housing for All, 2017
* Member, UGC Visit to Symbiosis International and DY Patil Institute as AICTE nominee, 2017
* IIT Roorkee Advisory Consultancy to MDDA for Smart City Dehradun, 2017
* Member, BoS, Department of Architectureand Planning, Maharaja Ranjit Singh Punjab Technical University, Bathinda, 2016-18
* Faculty Selection Committee, NIT Patna, February 2016
* Ph.D. Thesis Review for candidates from IITs & NITs
* Member, Board of Studies, Department of Building Engineering and Management, School of Planning and Architecture, New Delhi, 2014-16
* Expert Committee member for designing Course curriculum of B.Arch course for Indira Gandhi Delhi Technical University for Women, New Delhi, October, 2014
* Panel Expert for B. Arch Program course at NIT Patna on 20- 21 July 2013
* Project Monitoring Member for the Consortium on Center for Building Energy Efficiency Research & Development (CBERD) Project under Joint Clean Research and Development Center (JCERDC),Indo-US S&T Forum, 2013-2018

**INTERNATIONAL ENGAGEMENTS**

* Secretary General and Founder Member, South Asia Alliance for Disaster Research Institutes (SAADRI) www.saadri.net
* S&T Committee member for World Congress on Disaster Management, WCDM 2020
* Asia Science Technology and Academia Advisory Group (ASTAAG) Board Member , UNDRR- Asia Pacific, for 2019-2023, 2023-2027
* Global Alliance in Disaster Resilience Institutes (GADRI) Board Member, Kyoto, Japan for 2018-2022.
* IITR Campus representative for Fulbright-India Programme since 2012
* Visiting Associate Professor/ RF at Kyoto University, 1st April to 30th June, 2016
* Fulbright Fellow at Architectural Engineering Department, Penn State University, USA in January –May, 2008

**INSTITUTE RESPONSIBILITIES**

* Head, DAP- IIT Roorkee, June 2024-
* ICCSH (IITRoorkee) Chair, 2023
* DINC Chair, May, 2022- May, 2024
* Head, CoEDMM, IIT Roorkee, 2018-2021
* Coordinator- Housing for All Mission in IIT Roorkee 2016-19
* ICC Committee Member 2014-17
* Institute Architect 2012 -2014
* Member of Faculty Board of Center of Excellence in Disaster Mitigation and Management (CoEDMM) IIT Roorkee since 2006
* Chief Advisor to Himalayan Explorers’ Club, IIT Roorkee, during January 2012- March, 2013 and Staff adviser to HEC since 2006-2011
* Member of Library Advisory Committee of IIT Roorkee during 2006-2013
* Member of WG on Intellectual Property Rights (IPR) Cell for IIT Roorkee 2004-2014
* Member of Executive Committee of Staff Club, IIT Roorkee for 2009-11
* Member of the Sports section for the year of 2004-05

**MISCELLANEOUS**

* **E***x-Research Associate & past Joint Secretary* of Centre for Built Environment (CBE) [a voluntary professional NGO] joined in 1994 and carried out researches on transport, human habitat, gender etc, organized and took part in several International and national
* Avid traveler to different corners of India, especially in Himalayas and in Sunderban and abroad
* Interested in Films, Photography and Books

**U.G. THESIS GUIDANCE**

1. International centre for music, Tiruvanathapuram, Kerala, **Deovrat Dwivedi**, B.Arch. 2017-18
2. Trauma centre and Super Specialty hospital, Lucknow, **Shresth Jaiswal**, B.Arch. 2017-18
3. Global IT Park, Neemrana, **Divyae Mittal**, B.Arch. 2016-2017
4. International Convention cum Exhibition Centre, Dwarka, New Delhi, **Niketa**, 2016-2017
5. Science City, Allahabad, Uttar Pradesh, **Vishal Kesarwani**, B.Arch. 2015-2016
6. Maritime Museum, Mumbai, **Rajat Ashok Parmar**, B. Arch. 2015-2016
7. The Nest: Luxury Retirement Homes, Bhopal, **Nishi Jain**, B. Arch. 2015-2016
8. Fortis Jindal Hospital, Raigarh, Chhattisgarh, **Chainika Das,** B. Arch. 2014-15.
9. Indian Institute of Information Technology, Design & Manufacturing, Jabalpur, **Harshil Mehta**, B. Arch. 2014-15.
10. Mixed Use Development, UlweNmsez, **Rohan Goyal,** B. Arch. 2014-15.
11. Indian Institute of Management Ranchi, Ranchi, Jharkhand, **Srishti Shubh,** B. Arch. 2014-15.
12. Centre for Indian Music Experience, Bangalore, **G. Anirudh,** B. Arch. 2013-14
13. Minto Hall Campus Re-development Bhopal, **Rahul Ranjan**, B. Arch. 2013-14
14. Integrated Commuter Terminal at Secunderabad Railway Station Hyderabad, **Kasoju Karthik**, B. Arch. 2013-14
15. National Institute of Fashion Technology, Raebareli (U.P.), **Aditi Garg**, B. Arch. 2012-13
16. Center for Tribal Study and Research, Nagpur, **Deepak Parashar**, B. Arch. 2012-13
17. 5 Star Hotel, Gurgaon, **Nishchal Agarwal**, B. Arch. 2012-13
18. The Grand Hotel, Chandigarh, **Gagandeep Sandhu**, B. Arch. 2012-13
19. Rejuvenation of Dhanushkodi, Dhanushkodi Town, Rameswaram Island, **Paras Pathak**, B. Arch. 2012-13
20. Doon Medical College, Dehradun, **Kshitiz Agarwal**, B. Arch. 2011-12
21. International Convention Centre Thiruvananthapuram, Kerala, **Sreekanth P. S.,** 2011-12
22. 5 Star Hotel, Jaipur, **Krati Agrawal**, B. Arch. 2011-12
23. Oceanarium, Kochi, **R. S. Jayakrishnan**, B. Arch. 2011-12
24. Kolkata Museum of Modern Art, **Ankit Singh**, B. Arch. 2010-11
25. Habitat Center, Panchkula, **Gaurav Mangla**, B. Arch. 2010-11
26. Finance District, Gurgaon, **Praveen Kumar**, B. Arch. 2009-10
27. Hilton Hotel @ DLF Cyber City, Hyderabad, **Ali Asgar Kanchwala**, B. Arch. 2009-10
28. Nirvama IT Building, Gurgaon, **Vikash Kumar**, B. Arch. 2008-09
29. D. B. Centre, Mumbai, **Abhishek Sinha**, B. Arch. 2008-09
30. Reliance Mall, Indore, **Vaibhav Goyal**, B. Arch. 2008-09
31. Integrated School for Disabled Children, Sector-40, Noida, **Rahul Bansal**, B. Arch.2007-08.
32. City Mall at Dhanbad, **Kritiman Keshri**, B.Arch. 2007-08
33. Socio-Culture Centre Dwarka, Delhi, **Vinit Kumar Jain**, B.Arch.2007-08
34. Sports Pavilion cum Commercial Complex in Kolkata, **Rajeev Ranjan**, B.Arch. 2006-07
35. Escalina - The rushing eminence (A Five Star Hotel), **Shalien Kishore**, B.Arch. 2006-07.
36. The Eco Resort, Kashid, **Ankur Anil**, B.Arch. 2006-07.
37. Group Housing, Greater Noida, **Charu Vashishtha**, B. Arch. 2005-06.
38. University of Kota, Learn Inspire Change, **Gaurav Singh**, B.Arch.2005-06.
39. College for Engineering Sciences & Technology, Lucknow, **Abhishek Sharma**, B.Arch 2005-06
40. Model Destined for a New Future…Inhabited Bridge on D-N-D Expressway, Noida, **Vaibhav Jain**, B.Arch,2004-05
41. Teaching Hospital at IFTM, **Divyangshu Sharma**, B.Arch., 2004-05
42. Australian High Commission in New Delhi, India, **A.R.Abhay Kumar**, B.Arch.2004-05.
43. Bio-diversified Software Technology Park, Combatore, **Ajeet Kumar Gupta**, B. Arch. 2004-05
44. National School of Drama, **Awanish Rathore** , B.Arch,2003-04.
45. The Vedic Village Reincarnate: Spa Resort Shikharpur, Greater Kolkata, **Asim Kumar**, B.Arch,2003-04
46. Agastya International School…Transforming potential into reality, **Neeraj Kumar**, 2003-04

**P.G. DISSERTATION GUIDANCE**

1. Flood Risk Assessment using BIM and GIS integration; **Suchitra Kumud**; M Tech, 2024
2. Building Urban Flood Resilience through Nature based Solutions in Wazirabad, Gurugram; **Divjot Singh Malhotra**; M Arch 2024
3. Revitalizing spatial cultural heritage using Virtual Reality: Dholavira; **Dhruv Garg**; M Arch 2023
4. Rejuvenation of Chaktai Khal, Chattogram, Bangladesh, **Archita Saha**; M Arch 2023
5. Application of Weather Research and Forecast Modelling System in Simulating Heavy to Extreme Rainfall Events; **Anand Pai.** M Tech, 2023
6. Exploring applicability of Lean Principles in SWM for Patna Municipal Corporation; **Aditya Anand;** M.Arch 2022
7. Resilient Shelter in A Multi-Hazard Scenario – A Case of Guwahati City; **Ganeshan SP**. M.Arch 2022
8. Multi-Hazard Risk Assessment for Guwahati Municipal Corporation Area; **Sumaiyah Begum**. M Tech, 2022
9. Sustainable Solid Waste Management for Chaibasa Town in Jharkhand; **Subhash Biruly**, M Arch 2021
10. Crowd in Haridwar Kumbh, **Sooraj K Sharma**, M Tech, 2021
11. The Resilience Opportunities for Urban Development in Jakarta, Indonesia, **Fadia Fadzliyana Saifuddin**, M Arch 2020
12. Suitability Analysis Toolbox to Assess Multi-Purpose Buildings for use as a Disaster Relief Shelter, **Kumar Abhinay**; M.Tech (DMM) 2020
13. Participatory inclusion of Blue-Green Infrastructure, **Akhil Nawani**, M.Arch, 2019
14. Design for Outdoor Thermal Comfort in Gurugram; **Shalu Mathuria**; M.Tech (DMM) 2019
15. Green interventions to mitigate the effect of Urban heat Island, **Jagrati Sehgal**, M.Tech., 2018
16. Strategic management of water in urban India, **Khadse Aishwarya Prashant Vaishali**, M.Arch., 2018
17. Integrating Green Infrastructure into Urban Development for Resilience, **Bhavana Garg**, M.Tech, 2017
18. Standardization Techniques in Bamboo based Construction, **Vandana Jaiswal**, M.Arch, 2017
19. Adaptive and Mitigative Design Strategies against Urban Flooding, **Aishwarya Isha**, M.Arch, 2017
20. Effect of Vegetation on Microclimate of Residential Blocks, **Sana Javaid**, M. Arch., May 2016
21. Affordable Housing: Synergies Between Affordability and Resource Conservation, **Anukrati Srivastava**, M. Arch., May 2016
22. Climate Aspects of Heatwave: Heatwave Risk Assessment and Abatement, **Vandana Singh**, M. Tech., May 2016
23. Elderly Friendly Neighborhood Design, Kochi, Kerala, **Hudha Abdul Salam**, M. Arch., 2015
24. Green Learning Spaces in Institutional Campuses, **Venus Kashyap**, M. Arch., May 2015
25. Social-Interactive Spaces in Campus Accommodation; **Alka Kumari**, M. Arch., June 2014
26. Sustainable Campus Mobility Through Transportation Demand Management; **Dibin Rasool K. S.**, M. Arch., June 2014
27. Influence of Landscape in Outdoor Thermal Comfort; **Shatabdi Mahanta**, M. Arch., 2014
28. Impact of Surface Transformation on Microclimate: A GIS Based Approach; **Robin Agarwal**, M. Tech., June 2014
29. Study of Urban Heat Island in A Campus; **Sonam Sahu**, M. Tech.,June 2014
30. Multi-hazard Vulnerability of Vernacular Buildings in Bihar; **Satyanshu Kumar**, M. Tech.,2014
31. Redevelopment of SurajKund Sports Market, Meerut; **Shashank Dikshit**, M. Arch., 2013
32. Strategic Development of Energy Efficient and Comfortable Envelopes for Sustainable Campus Buildings; **Sheikh Zuhaib**, M.Arch., 2013
33. Energy Efficient Retrofit Options for Institutional Buildings in India, **Bhaskar De**, Arch., 2012
34. Design Criteria for Energy Efficient Shopping Mall in India, **Vandana Singh**, M.Arch., 2012
35. Design Guidelines for Modern Library Building, **Sreenita Mukherjee**, M. Arch., June 2011
36. Design Criteria for Learning Spaces in Technical Institutions, **Aiswarya Shylaja Baburaj**, M. Arch., June 2011
37. Revitalization of Fort Area in Tripunithura, Kerala, **Deepthi Kuriachan**, M. Arch. June 2010
38. Tensile Fabric Roof Structures-An-Architectural Approach, **S. Nithya**, M. Arch., June, 2010
39. Optimal Location of Service Cores in Medium Rise Buildings, **Atul Tegar**, M. Tech., 2010
40. Architectural and Structural Analysis of Green Roofs, **Nidhi Aggarwal**, M. Tech., June 2010
41. Design Guidelines for Green Roof Systems for Composite Climate in India, **Arpita Singh**, M. Arch., June 2009
42. Reviewing the scope of the Building Information Modelling (BIM) for Indian scenario, **Vinoth J. Kumar**, 2009
43. Analysis of Services in High rise Building, **Aaditya Sanyal**, M.Tech, 2009
44. Performance Analysis of Intelligent Buildings, **Praveen Mathew**, M.Tech, 2008
45. Design Guidelines for Sustainable Water Management in Housing, **Farheen Bano**, M. Arch. 2008.
46. Assessment of structural stability of Historical Masonry Structures, **A. Eswaran**, M. Tech, 2007
47. Relevance of Traditional Architecture in the Modern Context, **Lakshmi Priya R**, M. Arch.,2007
48. Embodied Energy Audit: A Tool for Sustainable Construction, **Rashmi S. Tijare**, M.Arch. 2007
49. People's Participation in Urban Development, Case Study: Traffic Management at Daryaganj, Delhi, **Kavita Poptani**, MURP, June, 2005.

**PhD GUIDANCE**

Completed:

1. Effects of Architectural features on Wind Load in Buildings, **Alok David John**, 2009
2. Study of Pedestrian Level Wind Environment in the vicinity of tall buildings, **K. Mohan**, 2012
3. Sustainability Assessment of Higher Educational Residential Campuses, **Shaila Bantanur**, 2014
4. Multi Hazard Urban Risk Management, **Neha Bansal**, 2015
5. Evaluation of Urban Renewal Projects under JnNURM for Sustainable Urban Development in India, **Doreshor Khwairakpam**, 2015
6. Climatography Model for Sustainable Urban Built Environment, **Pawar Aniruddha Subarao**, 2017
7. Optimization of Orientation and Canyon Aspect Ratio for a City in Warm Humid City, **Bhaskar De,** 2018
8. Sustainable Urban water management in Hill Towns- a case of Dharamshala, Himachal Pradesh, **Sandeep Sharma** (QIP), 2020
9. Impact Analysis of Blue-space on Urban Heat Island, **Aditya Rahul,** 2022
10. Participatory Risk Resilient Planning Framework for Sustainable Hill Habitat, **Shivani Chouhan**, 2024
11. UHI characterization with relation to Urban canopy parameters and energy balance, **Atul Mandal,** 2024
12. A User Centric Study of Wayfinding Behavior in Indian Urban Fabric, **Saptarshi Kolay**, 2024

Ongoing:

1. Studies on transient thermo-physiological response of passengers in airport terminal buildings, **Kapil Sinha**, (Part-time, Ongoing)
2. Optimizing Daylight Levels in Indoor Spaces for Energy Savings and Visual Comfort: Gurugram, **Ankit Bhalla** (Part-time, Ongoing)
3. Integrated Ground Water Resource Based Physical Planning Model for Urban Areas, **Vivekanand Tewari** (QIP, Part-time Ongoing) Submitted
4. An integrated approach towards development of climate conscious street design, **Saurabh Ojha** (Part-time, Ongoing)
5. A Comprehensive Study on Heritage Structures and Development of Strengthening Techniques, **Hina Gupta** (Part-time, Ongoing)
6. Impact of Climate Change on Wetland its Ecosystem Services, **Abhinay Kumar** (Ongoing)
7. Future Projections of Heat Stress and Its Risk Implications in an Urban Environment under Changing Climate, **Kshitij Kacker** (Ongoing) PMRF
8. Hybrid Mitigation Strategies for Hydrological Imbalances for Coastal Ur-ban Water Management, **Hudha S Salam** (Ongoing)
9. Multiscale Air Quality Assessment Framework using Airshed and CFD to Recommend Efficient NbS Strategies, **Amarnath Sharma** (Ongoing) PMRF
10. Interface-Integrated Hybrid Loss and Damage Estimation for Multi-Hazard Disasters in the Himalayas: A Community-Centric Approach, **Sakshi Goel** (Ongoing) PMRF
11. Resilient Habitat, **Akshay Ajith** (Yet to present proposal)
12. Food – Energy – Water Nexus, **Kshitiz Agarwal** (Yet to present proposal)
13. Planning for Resilience of Riverside town, **Debaleena Roy** (Yet to present proposal)

**INSTITUTES VISITED**

**In India**:

2024 GNDU, Amritsar.

2023 NIT Patna, NIT Rourkela, IIRS- Dehradun, CDRI, MNIT Jaipur

2020 August RGPV, Bhopal; Sri Sri University, Gujrat; SPA Delhi (Virtual)

March School of Planning and Architecture, SPA Delhi

Feb LBSNAAS- Mussourie, IIT Delhi, MANIT- Bhopal

2019 April IIT Delhi

January MEASI, Chennai

2018 September School of Planning and Architecture, SPA Delhi

 August NIDM, Delhi

2017 April Symbiosis International University, Pune

 August D Y Patil University, Navi Mumbai

September Kamla Raheja VIA, Mumbai

 School of Planning Delhi

2016 Feb IIT Delhi, NIT Patna, IIIT Hyderabad

March SPA New Delhi

 August Bhagalpur College of Engineering

 September CEPT Ahmedabad

 November SRM College, Muzzafarnagar, UP

 December IWSA, Navi Mumbai

2015 July IIEST, Shibpur

 IIT Kanpur

June IIT Bombay, Mumbai

May DCRUST, Murthal, Haryana

 BSDMA, Patna

February VNIT Nagpur

2014 December SPA New Delhi

 October Indira Gandhi Delhi Technical University for Women, New Delhi

 September CEPT- Ahmedabad

August Gitam University, Vishakhapatnam

 July, May NIT Patna

 February DCRUST, Murthal, Haryana

2013 July NIT Patna

2012 July IIT Kanpur

2011 November Shivalik Engineering School

October Shriram College of Architecture, Muzaffarnagar

 July IIT Kanpur

2010 December IIT Gandhinagar , Ahmedabad

July IIT Kanpur

January Department of Architecture, Andhra University, Vishakapatnam

2009 July IIT Kanpur

June Ayojan School of Architecture, Jaipur

May GianiZail Singh College of Engineering & Technology, Bathinda, Punjab

2006 & 2007 School of Architecture& Landscape, SMVDU, Kakrial, J&K

**Abroad:**

2023 Kyoto University; Sichuan University- Chengdu China

2022 Newcastle University, Sydney

2020 June, August Keio University, Japan (Virtual)

2019 October UKM, Kualalumpur

June-July Sichuan University, Chengdu, China

May UN, Geneva

March Kyoto University, Japan

2018 Nov-Dec Tohuku University, Japan

October Beijing Normal University, China

August City College, USA

 Penn State University, USA

 Illinois Institute of Technology, USA

March Kyoto University, Japan

2017 June Seville, Spain

2016 Jan, April-June Kyoto University, Japan

 April, June Tokyo University, UN University Tokyo

2013 June Czech Technical University, Prague

2011 June University College of London, UK

2010 January National University of Singapore, Singapore

 June University of the Witwatersrand, Johannesburg, South Africa

2008 Jan-May Penn State University, USA (As Fulbright Fellow)

2007 Feb-March San Jose, Costa Rica

**COUNTRIES VISITED**

Australia, Bangladesh, China, Costa Rica, Czech Republic, Denmark, France, Italy, Japan, Malaysia, Mongolia, South Africa, Singapore, Spain, Sri Lanka, Switzerland, Sweden, Thailand, Uganda, United Kingdom, United States of America

**DECLARATION**

I hereby declare that information provided in this resume is true to the best of my knowledge.

**Mahua Mukherjee**