

Uttam Kumar Roy

Professor,

Department of Architecture and Planning

Team Leader, AMRUT Centre of Urban Planning (ACUP), MoHUA, Govt of India

Joint faculty, Centre for Transportation Systems, IIT Roorkee

In-Charge: Spatial Planning Lab (SPL)



Short Profile

Dr. U K Roy is an Architect and Town Planner with more than 25 years of experience in housing & urban development. he is currently placed at IIT Roorkee as an Professor in the Department of Architecture and Planning and Team Leader, AMRUT Centre of Urban Planning (ACUP), set up by MoHUA, Govt of India. Earlier, he served as Head of Centre of Transportation Systems (CTRANS). **HUDCO chair faculty** at ATI, Kolkata, and was instrumental in institutionalizing the works in **housing and urban planning** during 2004-12 in West Bengal Municipalities.

He has contributed to executing semi-distance hybrid modules in urban planning for the working executives. He has served as town planner of WBHIDCO and contributed to the planning, design, and execution of large-scale housing & its infrastructure development, including PPP and joint venture models for **New Town Kolkata**. He has supervised twenty three UG thesis, fifty-eight master's thesis/dissertation and five PhD studies. His current research area includes systemic solutions in affordable housing, spatial planning, and walkability.

Currently, he is involved in the **planning** of Kolkata Port, **Patna City**, Bareilly, and Dehradun. He was invited to reputed organizations, including the UNECE Committee in Housing and Land Management. He is the recipient of the **Outstanding Teachers Award of IIT Roorkee in 2020**. He has been instrumental in multiple national and international collaborations, including the MoUs with industry and government bodies.

Highlights

1. **Twenty Six years** of academic/training/research and professional experience
2. **NUFFIC** Fellow and Recognised Trainer (RT) of Government of India
3. Recipient of **Outstanding Teacher Award** of IIT Roorkee, 2020
4. **Implemented** architecture and planning projects during 1997-2004
5. Supervised **5 PhD** scholar, Guided **58 PG** Dissertation, **23 UG** Design Thesis
6. Conducted/Conducting **40** Externally **Funded projects**
7. Conducted **60+ short training courses** for Elected, Executives and technical staffs
8. **22 journal** publication+ **48 Conference** publications+**8** short article+**11 book** chapters
9. **29 Technical Reports**
10. **2 NPTEL courses** run for total Ten times
11. **1 GIAN** course executed in 2019, 1 QIP course
12. 14 refresher courses attended
13. Handled **administrative position** at the level of Academic Head, Chair persons of committees
14. **PhD Examiners** of institutes of repute
15. Served as **Board of Studies** for institutions of repute

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Areas of Interest

Affordable Housing & Building Systems, Spatial Planning & Land Management: Architectural and Planning Education: Walkability & NMT Planning, Public Policy

Professional Background

From	To	Duration as on June 2024	Designation	Affiliation
2025	Till date	20 years Academic/ research/Professional experience	Professor	Department of Architecture and Planning, Indian Institute of Technology Roorkee
2025	Till date		Team Leader	AMRUT Centre of Urban Planning (ACUP), MoHUA, Govt of India
2022	2025		Head	Centre for Transportation Systems (CTRANS), IIT Roorkee
2020	date		Associate Professor	Department of Architecture and Planning, Indian Institute of Technology Roorkee
2012	2020		Assistant Professor	Department of Architecture and Planning, Indian Institute of Technology Roorkee
2004	2012		Assistant Professor and Nodal Officer	HUDCO Chair, Administrative Training Institute, Government of West Bengal, Kolkata
2001	2004	5.5 years Industrial Experience	Architect Planner	West Bengal Housing Infrastructure Development Corporation Ltd (WBHIDCO), Government of West Bengal,
2000	2001		Architect Planner	Ghosh Bose & Associates Pvt Ltd., Kolkata
2000	2000		Project Associate	School of Planning and Architecture, New Delhi
1997	1998		Assistant Architect	Prabir Mitra, Architects, Engineers and Planners, Kolkata

Education

B. Arch	Architecture	Jadavpur University, Kolkata	1997
M. Planning	Planning (Housing)	School of Planning and Architecture, New Delhi	2000
Ph. D	Engg.	Jadavpur University, Kolkata	2015
PG Diploma	Land Market and Informal Settlement Regularisation	Institute of Housing and Urban Development Studies (IHS), Rotterdam, Netherlands	2017
PG Certificate	Remote Sensing and GIS in Urban and Regional Planning	Indian Institute of Remote Sensing (IIRS), Dehradun Department of Space, Govt of India	2018

Awards and Distinctions

Sl. No.	Awards and distinction	Details
1	Outstanding Teachers Award	IIT Roorkee , 2020
2	NUFFIC Fellowship	Netherlands Government, 2017
3	Recognised Trainer (RT) on Design of Training (DOT)	Department of Personnel and Training (DOPT), Government of India, 2010
4	Best Subject Paper award in Architectural Engineering	National Engineering Congress, Kochi given by the <i>Institution of Engineers India</i> in 2009
5	GATE Scholarship	Government of India, (All India rank-17), 1998
6	National Merit-cum-Means Scholarship	Government of India, 1990
7	Best paper	<i>Asian Planning School Association (APSA) Congress</i> , August 2015, Malaysia
8	Best paper	20 th Annual Convocation <i>IBC</i> in Delhi 2016
9	Winner in the Design Problem	NOSPLAN , Organised by the School of Planning and Architecture, New Delhi in 1999
10	Second Prize winner in the Poster Competition	Indian Institute of Public Administration (IIPA) under the programme, International Decade of Natural Disaster Reduction (IDNDR) in 1999

Sponsored Projects/Centres

Sl no	Title of the project	Sponsor	Project amount (INR)	Duration	Role
1	AMRUT Funded Centre of Urban Planning for Capacity Building'	Ministry of Housing and Urban Affairs, Government of India	10.00 Crore	2024-26	Team Leader/PI
2	Estate Master Planning for Syamaprasad Mookherjee Kolkata Port	SMPK, Ministry of Shipping, Port Government of India	3.60 Crore	2024-25	PI
3	Modal Shift Strategy Plan for State of Odisha	Department of Commerce and Transport, Government of Odisha	1.47 Crore	2025-26	PI
4	Master Consultancy for Preparation of Zonal Development Plan (ZDP) for Patna Metropolitan Area (PMA)	Patna Metropolitan Area Authority, Govt of Bihar	2.64 Crore	2019-24	PI
5	Informal settlement, national policies and urban inclusion - adaptation strategies and challenges: comparative study in Kolkata, Delhi and Mumbai	SPARC , Ministry of Education, Government of India	74.04 L	2024-26	Co-PI
6	NPTEL post-baccalaureate fellowship Program	Government of India Ministry of Education	5.00 Lakh	2024-25	PI
7	Estimation of States' Finance Requirement for Disaster Management	Coalition for Disaster Resilient Infrastructure (CDRI)	11.5 L	2025-26	Co-PI/Expert
8	Enhancement GPSDP for Belada Gram	Ministry of Panchayati Raj ,	10.0 L	2024-24	PI

	panchayat: Action Research	Government of India			
9	A Comparative Assessment of Life Cycle Emissions of Different Vehicle Technologies: Future Implications for India	ICCT India Clean Transportation Research Pvt. Ltd	24.66 L	2024-25	Co-PI
10	Assessment of the reach and expected socio-economic impact of Kolkata-Guwahati-Bangladesh water freight corridor on stakeholders in perspective of PM Gati Shakti	ICSSR, Govt of India	12 L	2024-24	Co-PI
11	Development of the text book material and supplementary material on Sanskrit based Knowledge Systems for higher secondary & undergraduate students	IKS Division, Government of India	12.5 L	2023-24	Co-PI
12	Ecosystem centric rural revitalization: Bridging the urban-rural dichotomy toward post COVID resilient recovery	ICCR-JSPS	--	2023	Internal Expert
13	An Integrated Framework for Disaster Risk Reduction and Climate Change Adaptation	ICCR-JSPS	12.04 L	2022-23	Co-PI
14	Appraisal of site plans and building of Tata Steel Sahibabad	Tata Steel Ltd	50 L	2023	Co-PI
	Spatial Planning for Rural Areas: Pilot study for Uttarakhand	Ministry of Panchayati Raj, Government of India	INR 5 L	2020-2021	PI
15	Rental Housing Policy for Madhya Pradesh	Government of Madhya Pradesh	4.8 L	2020-2021	PI
16	Site Development of Faculty Housing at IIT Roorkee	Construction Division, IIT Roorkee	5.0 L	2020-2022	PI
17	Appraisal and evaluation of major Road Projects in Smart City Bareilly	BSCL	53 L	2020-21	PI
18	Appraisal of Sport Complex in Bareilly Smart City	BSCL	2.25	2020-21	PI
19	Campus Development Plan for CIMS at Sarkanda, Bilaspur	CIMS, Bilaspur	42.0 L	2021-23	Co-PI
20	Development of Modular, Infill and Interlocking AAC Blocks with it's Design interface for Market Driven Affordable Mass Housing for Low Income Group (LIG) in India (Uchchatar Avishkar Yojana)	MHRD (50%) and Ministry of Housing and Urban Affairs from Govt of India (25%) & B. G. Shirke Construction Technology Pvt Ltd (25%)	26 L	2017-21	PI
21	Translating Urban Green Spaces as strategic Energy and Water security measure	DST, Govt of India	50.92 L	2017-20	Co-PI
22	Formulation of design guidelines for low-income housing projects deploying disaster resistant and environment friendly technologies and materials for the states of Uttarpradesh & Uttarakhand under HfA Mission	Ministry of Housing and Urban Poverty Alleviation	20.6 L	awarded	PI
23	Master Plan of Temporary campus of NIT Uttarakhand, Srinagar, Garhwal	Government of Uttarakhand	--	2018-2019	
24	Capacity Building For Urban Development (CBUD)	Directorate Urban Administration & Development Madhya	4.93	2018-19	PI

		Pradesh			
25	Vision Plan for Dal Lake, Srinagar	Government of J & K		2016	Co-PI
	Advisory for Smart City Planning of Dehradun	MDDA, Dehradun	--	2017	Expert
26	Process Standardisation for Inclusive Urban Planning	SRIC, IIT Roorkee	8.25 L	2013-2017	PI
27	Model Land Use and Development Control Plan (LUDCP), Development Control Regulation (DCR) for Peri-Urban Areas	Ministry of Urban Development, Government of India	25.5 lakh	2010-12	Co-PI
28	An Enterprise-Driven High Quality Community Toilet System Sustaining on Commercial Values Generated by Black 26Soldier Fly Larvae Grown on Human Feces and by Fertilizer Derived from Urine	Department of Biotechnology (DBT), Ministry of Science And Technology, Government of India & Bill & Melinda Gates Foundation (BMGF)	50 L	2014-2016	Co-PI
29	Pilot study of Non-Municipal Urban Areas:	Department of Panchayat and Rural Development, Govt. of West Bengal	8.2 lakh	2009-2012	PI
30	Re-Utilisation of Railways land around the stations of Eastern Railways	Inspiration, Kolkata from Eastern Railways	--	2011	Co-PI
31	Internal appraisal and Hand holding for Compilation of Draft Development Plans of non-KMA Municipality	DFID through CMU (KUSP), Govt. of West Bengal	15 lakh	2007-2009	Co-PI
32	Internal appraisal and Hand holding for Compilation of Draft Development Plans of KMA Municipality:	DFID through CMU, Govt. of West Bengal	6.25 lakh	2006-2009	Co-PI
33	Capacity Building Programme (CBP) of Assistant Managers of Kolkata Municipal Corporation	Kolkata Municipal Corporation (under DFID fund)	30.0 lakh		PI
34	Land acquisition proposals and strategy for Kulpi SEZ, West Bengal	Bengal Port Ltd.	65.0 Lakh		Co-PI
35	AITP (Urban Planning) program through a distance learning module	Kolkata Urban Services for the Poor (KUSP)	15.0 Lakh	2008-12	
36	Training Need Analysis (TNA) of Assistant Engineers and Executive Officers of KMA municipalities	DFID through CMU(KUSP), Govt. of West Bengal	1.0 lakh	2004-05	PI
37	Design of Housing Cooperative Design	Biram Cooperative	1.0 lakh	2004-05	
38	Design of House of Mr. Subhash Karmakar	Mr. Subhash Karmakar	--	2000	Architect
39	Design of Residence of Mr. Chandrama Shaw	Mr. Chandrama Shaw	--	2001	Architect
40	Design of Residence of Mr. Mithilesh Singh	Mr. Mithilesh Singh	25k	2002	Architect

Technical/Professional reports formulated

S no.	Title/project	Organisation/Year
1	Local Area Mobility Plan for Roorkee	IIT Roorkee, (MURP studio)
2	Spatial Planning for Chharba Village, Haridwar	
3	Spatial Planning for Belada Village, Haridwar	
4	Area Development Scheme of Nawada and Baherwan Village, Patna	
5	Zonal Development Plan for Patna metropolitan Area D2: Approach and Methodology D3: Checklist and Guidelines D4: Procurement of Consultants D5: Pilot ZDP and Area Development Schemes (ADS)	2021 to 2024
6	Final report for Spatial Planning for Rural areas: A pilot study for Uttarakhand Villages	2021
7	Rental Housing Policy for the State of Madhya Pradesh	2021
8	Project Report of Site Planning and Traffic Movement for Faculty housing in IIT Roorkee	
9	Outline Development Plan for Rohtak	IIT Roorkee, (MURP studio)
10	Appraisal Report on Major Road Project of Bareilly Smart City	
11	Blue Green Infrastructure Plan for Gurugram	IIT Roorkee, (MURP studio)
12	Zonal Development Plan for Roorkee	
13	Tourism based Action Plan for Chitrakoot, MP	
14	Uttarakhand Capital Region Plan 2041	
15	Integrated Development Plan for Rishikesh 2040	
16	Vision Plan for Dal Lake, Srinagar (part	J & K Government, 2016
17	Project Report for Action Area-I, New Town Kolkata	WBHIDCO, 2005
18	Report on Development Control Rules and Regulation for New Town Kolkata	WBHIDCO, 2005
19	Project Report for Action Area II, New Town Kolkata	WBHIDCO, 2006
20	Status Report on Land Acquisition for Kulpi Port	Bengal Port, 2009
21	Progress Report for Pilot Study for Non- Municipal Urban Areas of West Bengal	ATI, Kolkata, 2010-11
22	Progress Report on Study on Model LUDCP and DCR for Peri-Urban Areas	ATI, Kolkata, 2010-11
23	Way-finding Strategy and Design for ATI campus, Kolkata	ATI, Kolkata, 2010-11
24	Consolidated report of Internal Appraisal and handholding for KMA municipality	CMU, 2010
25	Consolidated report of Internal Appraisal and handholding for Non-KMA municipality	CMU, 2011
26	EOI report for Centre of Excellence in Urban Development at ATI, Kolkata	ATI, Kolkata, 2008-9
27	Proceedings for Re-visioning Kolkata: A National Symposium	ITPI, WB Chapter, 2011
28	Long Term course for Urban Planners (AITP) in West Bengal	ATI, Kolkata, 2011
29	Report on re-utilisation of rail land around the railway stations	Inspirations, 2012

PG (MURP/AITP) Dissertations Supervised (58)

Summary:

* DAAD/COSPIE Fellowship: **07** nos

^continued PhD: **12** nos

Class Topper: **3** nos

** International Scholar

Sl no.	Title	Year	Name of the scholar	Co supervisor
1	Strategic Planning for Urban Green Spaces (UGS) in the City of Agra	2024	Deeksha Sharma	
2	Integration of BGI in statutory planning framework of a hill city: A case of Dehradun	2024	Harsh Srivastava	
3	Strategic Infrastructure Development Plan for Sustainable Tourism in Hampi , Karnataka, India	2024	Sanjay V. Kumar	
4	Walkability Planning in Hilly Areas	2024	Oshin Agarwal*^	
5	Planning of Agro-Prosperous New Towns for economic development: A case of Maharashtra Samruddhi corridor	2023	Arpita Gajanan Shinde	
6	Station Area Development around Aligarh Freight Terminal of Dedicated Freight Corridor	2023	Lalit Kumar	
7	Appraisal of pedestrianization gains and externalities	2023	Debashis Bhadola	Dr. Shubhajit Sadhukhan
8	Air pollutant exposure to e-rickshaw users	2023	Nabh Hirwani^	Dr. Shubhajit Sadhukhan
9	Review of area-based development in Indian smart cities: case of Lucknow city	2022	Shikha Puri	
10	Inclusive planning for mainstreaming the tribal youths in economic development of the Bastar district, C.G.	2022	Alok Pandey	
11	Planning for Intermediate Public Transport System in Kishangarh City, Rajasthan	2022	Dheeraj Chouhan	
12	Planning of non-motorized transport for mixed land use and mixed traffic urban areas	2022	Apoorva Bhatnagar*	
13	Spatial planning for Economic development of rural areas at cluster level.	2021	Amar Singh^	
14	Leveraging impact of RRTS station on urban development: a case of NCR	2021	Aman Bhakhar	
15	Integration of Public Spaces in Developing Riverfront as a Strategy for Multifunctional Space in Patna	2021	Ayush Kumar	
16	Critical Factors in Planning and Management of Last Mile Connectivity along MRTS corridor : Case of Delhi	2021	Mayank Singh	
17	Spatial Integration of Physical Infrastructure: Case of Patna	2020	Amit Kumar^	None
18	Planning And Retrofitting Options For High-Density Mixed-Use Walkable Neighbourhoods	2020	Nalin Bindlish*	None
19	Planning for Flood Mitigation for City of Dhaka	2019	Bushra Sahriar**^	International Scholar (ICCR)

20	Benchmarking Multimodal interface of MRTS stations in India	2019	Ankita Sil*	DAAD Scholar
21	Urban Renewal in Core City of Nagpur	2019	Rishikesh Dixit	None
22	Framework of Land value Capture in the City of Chandigarh	2019	Divyam Garg^	None
23	Planning for Walkability in residential neighbourhood in Lucknow City	2019	Arpit Tiwary	None
24	Planning Strategies for Revival of Delhi Ring Railway	2018	Inala Sowjanya#	Class Topper
25	Integrated Planning of a Rurban Cluster in NCR Delhi	2018	Divya Dahiya	None
26	Planning Strategies for technology Transfer in Affordable Housing	2018	Ankit kannoujiya	None
27	Evolving an Operational Framework for post Disaster Housing Reconstruction in India	2018	Naved Hussain	None
28	Development Strategies for Homestays in Uttarakhand	2018	Jagriti Arora	None
29	Planning for Para-transits in urban Road Intersections: A case of Pune	2018	Aisyarya Agarwal^	Class Topper
30	Planning for Garh Mukteshwar as a Pilgrimage City	2017	RohitDabas*^	DAAD Scholar
31	Planning for international Sport City , Delhi	2017	Vikash Saini	None
32	Evaluation of SRA schemes in the city of Pune	2017	GargiBachal	None
33	Spatial Planning for Pedestrians Level of Service in Railway Stations	2017	Rishav Paul#	None
34	Problems and Prospects of Medium sized city: A case study of Rickshaw Puller in Siliguri	2017	JoyeetaDey	Ranjan Chattopadhyay, Director, KMDA
35	Policy options for market-driven affordable housing	2016	Ratna Ghosh	None
36	Simplified model for Land Readjustment : A case for Aligarh city, UP	2016	Mahammad Ahmad*	Selected in DAAD
37	Planning for Non-Municipal Towns for Hariyana	2016	Kuldeep	None
38	Planning for Logistic Hub at Dighi, Maharashtra	2016	Sanket Mane	None
39	Planning for smart mobility: Bhopal	2016	Udit Sharma	None
40	Mode Choice modelling for the city of Amritsar	2016	RajjaGarg	None
41	Planning for Public Bicycle Sharing system	2016	ShashankShekhar	None
42	Mode Choice for public transportation system for city of Bhopal	2016	Ritwik Bharadwaj	Prof. R D Garg, CED
43	Planning for Non-Motorised Transportation for Residential Neighbourhoods, Case Study Delhi	2015	Aditi Sharma*#	DAAD Scholar Topper
44	Impact of MRTS on Urban land, Case Study of Delhi	2015	Radha Krishan	None
45	Planning Implications of the East-West Seaport Industrial Corridor on Chennai Region	2015	Arjun Satheesh^	None
46	Development Strategies for Slum Improvement for Agra City	2015	Baibhav Kulshrestha	None
47	Municipal Solid Waste Management System for Gorakhpur City, UP	2015	Anand Sharma	None
48	Transportation and Traffic Management Strategies for Seasonal Religious Processions:A Case of Kanwar Yatra	2015	Hasmeet Kaur (CTRANS)	None

49	Infrastructure Development Strategies for Adventure Tourism in Uttarakhand- Case of Pithoragarh	2015	Michael Maria Joseph	None
50	Planning For Drainage System Development Of Englishbazar Municipality, Malda, West Bengal	2015	Sahin Saliur Jaman (AITP)	None
51	Strategic Intervention for the Master Plan of Roorkee Town 2035	2014	Atul Kumar Biltoria^	None
52	Prospects for Industrial Development Along the Eastern Dedicated Freight Corridor -District Chandauli, Uttarpradesh	2014	Shovit Verma	None
53	Evaluation of Planning and Development in Kakopathar Block, Tinsukia, Assam	2014	Dipankar Saikia	None
54	Infrastructure Development Strategies for Raipur City: 2035	2014	Noman Mansuri	None
55	Management of Water Supply and Sanitation for Dumdum Municipality	2013	Ramyani Mukherjee (AITP)	Prof. N N Som
56	Mainstreaming Gender in Planning and Development: Case Study of DDPs of KMA	2013	Sumanta Chakraborty (AITP)	Prof. N. N Som
57	Nature of New Developments in Uttarpara-Kotrung Municipality	2012	Ruma Das^ (AITP)	Mr. Debaditya Kumer, WBHIDCO
58	Planning for Social Security Schemes for excluded groups of informal sector in urban areas	2012	Chandrani Bhattacharya^ (AITP)	Prof. N. N Som

PhD Supervision

Sl	Title/Subjects	Awarded	Scholar	Co supervisor
1.	Development of Infill AAC Block Wall-System For Affordable And Industrialized Housing	2024	Atul Biltoria	
2.	Analyzing Housing Adequacy for Urban Poor of Global South: Case of Shimla, A Hill City	2024	Nipun Behl	
3.	Investigating Housing Satisfaction Through User Involvement in Incremental Design Process	2023	Ushnata Dutta	
4.	Options for Strawbale Construction in India	2022	Monika Gupta	Dr. M. Roy
5.	Extent and Spatial pattern for Mixed Land Use planning in Residential Areas	2020	Rewati Raman	
6.	Norms for Mixed land Use for Commercial areas	Synopsis in February, March, 2025	Puneet Mishra	
7.	Planning for Studentification of Indian Cities		Dikchha Tiwary	
8.	Community based Flood mitigation for Dhaka City	Ongoing, ICCR	Bushra Sahriar	
9	Validation of Indigenous spatial Planing principles	Ongoing	Narinderjit Kaur	
10	Shared NMT for Last mile connectivity	Ongoing, P/T	Anil Kumar	
11	Transportation safety and Urban Planning	Ongoing	Md. Sahin Uddin	Dr. I. Ghosh

12	Continuity in the road as a pedestrians facilities	Ongoing, QIP	Sangeeth K.	
13	Master Plan monitoring Framework	Ongoing, P/T	Anshuman Dubey	
14	Short term Rental Housing	Ongoing	Rodrigue samb	Dr. Manavi
15	Residential Mobility and Public Policy	Ongoing	Aratrika Sarkar	

UG (B. Arch) Thesis Supervised (23)

Sl no.	Title	Year	Name of the scholar
1	Development of Heritage Hotel at Kyoti Fort, Rewa in Madhya Pradesh	2025 (Ongoing)	Onkar Nath Tiwary
2	Socio-cultural centre		Manvi Tayal
3	Council of Architecture Centre of Excellence	2024	Krati Kamna Sharma
4	Circuit House in Kolhapur	2024	Sreyes Gupta
5	Eco-Tourism Resorts and Visitor centres	2023	Prakhar Tamta
6	Affordable Housing	2023	Amit Kumar Singh
7	International Business Centre , B-9, Sector-132, Expressway, Noida	2022	N V Shivani Snigdha
8	Mix Used Development Project, Noida	2022	Shuvam Verma
9	SPA Aurangabad	2021	M. Darshini
10	Lecture Hall design, IIT Tirupati	2021	Aditi Garg
11	International Exhibition and Convention Centre, Delhi	2019	ANURAG MATHUR
12	Amravati High Court, Amravati, Andra pradesh	2019	AYUSH AGARWAL
13	5 Star Hotel, Agra	2019	RAGHAV GUPTA
14	NIT Patna	2017	Akansha Sharma
15	Museum of Contemporary Architecture	2017	Pankaj Kumar
16	Theme Park in Sikkim	2016	Rishav Garodia
17	Cultural Complex	2016	Soumya Mishra
18	Parallel Leap: Slum/Housing Improvement	2016	Devesh Agarwal
19	Kolkata Museum of Modern Art	2015	Shashank Krishna
20	Hospital cum Trauma Centre , Guwahati	2015	Chandana Rajanna
21	5 Star Hoel Cum Convention Centre Ludhiyana, Punjab	2015	Dinesh Kumar
22	Commercial Mixed-Use Building, Gurgaon Sector 88	2015	Shreya Bhardwaj
23	National Institute of Design, Bhopal	2015	Sweta Panda

Journal Publications

1. Mishra, P., & **Roy, U. K.** (2025). What drives evolved commercialization and transformation of residential into mixed-use neighbourhoods?, **Habitat International**, (Q1, Elsevier)
2. K. Sangeeth, **Roy, U. K** (2025) Methodology for evaluating sidewalk based on continuous pedestrian movement on the sidewalk segment – A case study of Kochi city, **Transportation Research Interdisciplinary Perspectives**, Elsevier
3. **Roy, U. K** (2025) Efficacy of distance-learning in Planning-Education: Case of a hybrid curriculum, **Planning Practice and Research** (Q2, Taylor and Francis). DOI - 10.1080/02697459.2025.2459976
4. Hirwani, N., Islam, N., Sadhukhan, S., **Roy, U. K** (2025). Effects of Seating Positions on Air Pollution Exposure of E-Rickshaw Users: A Case Study in Roorkee, *Transportation in Developing Economies* (TiDE) journal. Vol 11, p-1-10 (**Springer**)
5. Sharma, Deeksha. & **Roy, U. K** (2024). People's readiness of Urban Green Spaces (UGS) Strategies in Agra, the city of Taj, *Journal of Contemporary Urban Affairs*, 8(2), 529–545. (**ERIH Plus**) (European Reference Index for the Humanities and the Social Sciences) <https://doi.org/10.25034/ijcua.2024.v8n2-14>
6. Shahriar, Bushra. & **Roy, U. K** (2024). Practical Indicators to Improve Urban Flood Resilience of A Community: A Case of Urban Flood Mitigation in Dhaka Bangladesh, *IDRIM Journal* (Q3, SJR, **IDRIM Society**). Vol-14, p 292-319
7. Mishra, Puneet. & **Roy, U. K.** (2024). Exploring Commercial Development in Delhi's Mixed-Use Neighbourhoods: An Empirical Study. *Journal of Contemporary Urban Affairs*, 8(1), 271–288. (**ERIH Plus**) (European Reference Index for the Humanities and the Social Sciences), <https://doi.org/10.25034/ijcua.2024.v8n1-15>
8. Biltoria, Atul. K. & **Roy, U. K** (2023). Affordable housing using industrialized construction: a market-based standardization of housing units in India, *Architectural Engineering and Design Management*, DOI: 10.1080/17452007.2023.2243945 (Q1, Taylor and Francis)
9. Sil, Ankita., E. Chaniotakis, **Roy, U. K.** and C. Antoniou (2022). Exploring satisfaction for transfers at intermodal interchanges: A comparison of Germany and India, *Journal of Public Transportation*. Vol-24, Pp-100005 (Q1, Elsevier)
10. Raman, Rewati. & **Roy, U. K.** (2019). Taxonomy of Urban Mixed land Use Planning. *Land Use Policy*, Vol 88. 104102, pp-1-9 (Q1, Elsevier)
11. **Roy, U. K. & Roy, M.** (2016). Space standardisation of low-income housing units in India. *International Journal of Housing Market and Analysis* . Vol-9, issue-1, pp-88-107 (Q2 SJR, **Emerald**)
12. **Roy, U. K. & Roy, M.**(2009). Space Standardisation for Dimensional Coordination of a MIG Housing Unit Based on Market Trend in India. *Journal of Institution of Engineers (JIE) India*, Vol-9, April, pp 1-7. (Q2, **Springer**)
13. **Roy, U. K.**, Ghosh, A., Chakravarti, R & Som, N. N.(2010). Attitudinal Orientation of First Level Managers for Improvement of Municipal Service Delivery: Experience of Training Intervention in Kolkata. *Commonwealth Journal of Local Governance (CJLG)* Issue-6, July, pp. 107-119. (**UTS Centre for Local Government, Liverpool University Press**) <https://doi.org/10.5130/cjlg.voi6.1626>

14. **Roy, U. K.** & Najamuddin. (2016). A Smart City Development Plan: Integrating people and Technology. *Journal of Institute of Town Planners India (JITPI)*. 13x2, April-June, pp-67-88
15. **Roy, U. K.** (2015). Policy Implications for Small Towns with Incompatible Local Governance in India. *SPANDREL, Journal of SPA, Bhopal*, Issue-9, pp-58-67
16. **Roy, U. K.,** Roy M. & Dasgupta, A (2015). Bridging the Missing Links of Smart City Concept in India. *Journal of Indian Buildings Congress*, Oct, 2015 (Received best paper award)
17. **Roy, U. K.,** Roy M. & Saha, S. (2013). Adopting Industrialised Building System (IBS) in the Indian Housing Systems and Sub Systems. *Journal of Indian Buildings Congress* April
18. **Roy, U. K.,** Roy, M. & Saha, S (2010). Development Options and Appropriate Module for Industrialised Mass-Housing in India. *ABACUS, Birla Institute of Technology, Mesra*. Spring-Autumn
19. **Roy, U. K.,** Roy M. & Saha, S. (2008). Energy Optimization through Open-Industrialised Building System in Mass Housing Projects. *Journal of Indian Buildings Congress* April,
20. **Roy, U. K.** (2007). Capacity Building for Urban Governance through Training: Experiences of ATI, West Bengal. *Journal of Management in Government, DOPT (Government of India)*, July- September
21. **Roy, U. K.** (2006). Development Strategy and Urban Design Guidelines for Major Intersections, New Town, Kolkata. *Journal of Institute of Town Planners India (JITPI)*. January-March
22. **Roy, U. K.** (2004). Development Control Regulations: Example from Major Indian Cities. *Journal of Indian Institute of Architects (JIIA)*. Vol-9, April

Patent (1)

Biltoria, Atul. K. & **Roy, U. K** (2023). INFILL, MODULAR AND INTERLOCKING (IMI) AAC BLOCK WALL-SYSTEM FOR PLUMBING SERVICES IN INDUSTRIALIZED CONSTRUCTION (App no 202311051678), Indian Patent Office, (Published 01/09/2023) (TEMP/E1/60113/2023- DEL)

Peer-Reviewed Book Chapters/Monograph (11)

1. Puneet Mishra, Uttam Kumar Roy (2023) Exploring the Commercial Performance of Self-organized **Mixed-Use Streets** in Delhi. *Lecture Notes in Civil Engineering* (LNCE, volume 551) (Springer)
2. Nipun Behl, Uttam Roy (2023) Chapter 8 - Comparing **rural and urban homelessness** in the context of environmental vulnerability in India's **hill states**, Editor(s): Uday Chatterjee, Rajib Shaw, Lakshmi Sivaramakrishnan, Jenia Mukherjee, Raktima Ghosh, Homelessness to Hope, **Elsevier**, Pages 149-169, ISBN 9780443140525, <https://doi.org/10.1016/B978-0-443-14052-5.00008-2>.
3. Narinderjit Kaur, Uttam Roy (2024) Part-II - Urban **Morphology and Phenomenology**, Editor(s): Archana Baghel, Shreya Parikh, Advancing Heritage Innovations in India, **Cinius Yayınları Publication**, Pages 97-107, ISBN 978-625-7557-40-5, available at https://www.iccaua.com/page/bch_india
4. Sanjay V K, Uttam Roy (2024) Part-II- Balancing **Heritage Conservation** and Tourism: A Case Study of **Hampi**, Editor(s): Archana Baghel, Shreya Parikh, Advancing Heritage Innovations in India, Cinius Yayınları Publication, Pages 133-143, ISBN 978-625-7557-40-5, available at https://www.iccaua.com/page/bch_india

5. Harsh Srivastava, Uttam Roy (2024) Part-I- **Blue-Green Infrastructure: Climate Risk Resilience of Indian Hill Cities**, Editor(s): Archana Baghel, Shreya Parikh, Advancing Heritage Innovations in India, Cinius Yayınları Publication, Pages 8-16, ISBN 978-625-7557-40-5. available at https://www.iccaua.com/page/bch_india
6. Gupta, M. S., Roy, U. K. & Roy, M. (2020) Expediting Faster Housing Supply in India Using Straw Bale as **Prefab Building Material**, In Ed. Saleem Hashmi, Imtiaz Ahmed Choudhury, *Encyclopedia of Renewable and Sustainable Materials*, Vol-4, 92-101 ISBN 9780128131961, DOI: <https://doi.org/10.1016/B978-0-12-803581-8.11664-9>.(Elsevier)
7. Kaur, H. & Roy, U. K. (2020). Critical Appraisal of Traffic Management Strategies for a Mega Religious Procession: Case of NH-58 During **Kanwar Yatra**, India, In *Transportation Research* ISBN: 978-981-329-041-9. DOI-<https://doi.org/10.1007/978-981-32-9042-6> (Springer)
8. Sensarma, S. R., Roy, U. K. & Dasgupta, A (2015). **Sub-Cities and Metropolis: Spatial impact on Land and Housing**. In *Indian Urbanisation and Sustainable Development: Spatial Perspectives. IIPA, Delhi*. PP-218-237.
9. Roy, U. K. (2014). A Monograph on Affordable Housing. CD cell activities of **QIP** centre, IIT Roorkee.
10. Roy, U. K. (2009). How to Handle Urban Issues in Municipal Wards and prepare Urban Plans. In How to become an Effective Administrators. *Administrative Training Institute Kolkata* Monograph no 19/2009: 2009
11. Roy, U. K. (2007). Case study: Nayantara; **Case study** compilations. Department of personnel and Training, Govt. of India. Monograph at **Administrative Training Institute, Kolkata**

Short Articles/ Authored/ News Articles (8)

1. Roy, U. K. (2020). Rise of **new teaching methods post-Covid-19** in higher education institutes. Education Today. **India Today**, November 10
(<https://www.indiatoday.in/education-today/featurephilia/story/rise-of-new-teaching-methods-post-covid-19-in-higher-education-institutes-1739746-2020-11-10>)
2. Roy, U. K. (2020), Opportunities for **Post-pandemic Higher Education: Are we ready?** **Timesnow** news,com, 22 September,
(<https://www.timesnownews.com/education/article/opportunities-for-post-pandemic-higher-education-are-we-ready/656291>)
3. Roy, U. K. (2020), "The Importance of **Patrick Geddes**"- Letters on July 3 Issue, 2020, **The India Forum**, <https://www.theindiaforum.in/letters/patrick-geddes>
4. Roy, U. K., S. R. Sensarma, S. Samaddar (2020) "Exiting a **Desi Lock Down**", **The Pioneer**, 21st May 2020
(<https://www.dailypioneer.com/2020/columnists/exiting-a-desi-lockdown.html>)
5. Roy, U. K. (2020) Teaching during **COVID-19** Lockdown: Coping up with **online classes** and excelling, India Today, 6th May 2020
(<https://www.indiatoday.in/education-today/featurephilia/story/teaching-during-covid-19-lockdown-coping-up-with-online-classes-and-excelling-1675013-2020-05-06>)
6. Roy, U. K. (2016). **Housing for All'**: Planning and Design Interface. *Nirman Sarika. BMTPC*, Government of India (World Habitat Day special issue). Vol 5, Issue-3, July-September (pp-67-72)
7. Roy, U. K. (2010). Towards a **Quicker Delivery of Home**. *Buyers Guide. India Today*, June
8. Roy, U. K. (2008). **Leadership** Role of Future Architects and Urban Planners and preparedness in Course Curriculum. *Journal of SSAJU*, Jadavpur University, Kolkata

Conference Publications (48)

1. Nipun Behl, Prof. Uttam K. Roy. Unlocking Housing Challenges in Shimla: Navigating the Complexities of a Mountainous Urban Environment. The **Housing Studies Association** - Healthy Homes, Healthy Lives: Exploring the Intersections of Health and Housing. 15th - 17th April 2024. **Sheffield**, England
2. Rodrigue Samb, Uttam K. Roy, Prof. Manavi Suneja. An Approach to Urban hunger during the lean season (Abstract accepted). the 4th International and Interdisciplinary Conference on Spatial Methods for Urban Sustainability ("**SMUS** Conference"). 23rd to 29th July 2024. Chulalongkorn University (Thailand), **Thailand**
3. Nipun Behl, Uttam K. Roy. Unlocking Housing Challenges in Shimla. **RC21** Santiago 2024 - The politics and spaces of encounters: advancing dialogues between and within the Global North and the Global South. July 24-26th, 2024. **Santiago**, Chile
4. Narinderjit Kaur, Uttam Kumar Roy. Planning Practices and Urban Form: Case of Ancient Indian Native Settlements. Urban Innovations Conference (**UIC**) 2024. 1-3 March 2024. SPA Bhopal
5. Narinderjit Kaur, Uttam Kumar Roy. Locational attribute as the paradigm of urban form in native Indian settlements and the practices of Planning: Case study of **Rajputana Towns**. International Conference on Rethinking Built Environment (**INCoRBE**) for Sub-theme: Built Environment Context, Identity & Society. 6-8 March 2024. Mizoram University, India
6. Dikchha Tiwarii, Uttam Kumar Roy. Spatial Analysis of Student zone using Geographic Information Systems (GIS): A Case Study from Dehradun in SMUSI_15- Measuring Change in Urban Space(s). 3rd International and Interdisciplinary Conference on Spatial Methods for Urban Sustainability (**SMUS**). 24th Feb 2023. IIT Roorkee
7. Dikchha Tiwarii, Uttam Kumar Roy. Investigating the need for student rental housing in India' on the panel, 'Rethinking dwelling: Housing transitions in Indian cities. **Urban ARC 2023**. Cities in Flux. IIHS' Annual Research Conference. 13 January 2023. **IIHS** Bangalore
8. Shikha Puri, Uttam Kumar Roy. **Area-Based Development** of Smart City Mission and Intra-city Inequality: Case of Lucknow City. 3rd International and Interdisciplinary Conference on Spatial Methods for Urban Sustainability (**SMUS**). 24th Feb 2023. IIT Roorkee
9. Narinderjit Kaur, Uttam Kumar Roy. Urban form of native Indian settlements through the paradigm of placemaking. DOI: <https://doi.org/10.5281/zenodo.7648092> Annual Research on Cities Summit (**ARCS**) 7.0 - International Conference on 'Sustainable Urbanism in the Global South'. 10-11 February 2023. School of Human Settlements, XIM University, Bhubaneswar, India
10. Narinderjit Kaur, Uttam Kumar Roy. Approaches to study urban form in perspective of ancient Indian settlements. 71 **NTCP** Conference 'Challenges for Urban and Regional Planning towards Sustainable Development'. 24-26 February 2023. ITPI Chapter, Bhubhaneshwar
11. Dikchha Tiwarii, Uttam Kumar Roy. Assessment of perceived importance and satisfaction for neighbourhood facilities in Studentified zone: A case of Dehradun City. Poster Presentation **Institute Research Day**, IIT Roorkee. 13 March 2023. IIT Roorkee
12. Narinderjit Kaur, Uttam Kumar Roy. Urban Form in Native Settlements of India through the Paradigm of Centrality of Activity. Institute Research Day, IIT Roorkee. 14th March 2023. IIT Roorkee
13. Bushra Shahriar, Prof. Uttam Kumar Roy. Community Participation To Enhance Community Resilience: A Case of Urban Flood Mitigation in Dhaka Bangladesh. 12th International Conference of the International Society for the Integrated Disaster Risk Management **IDRIM 2022**: Critical steps for research and practice in disaster risk management in the age of climate change and the covid-19 pandemic. 21st Sept-23rd Sept, 2022. Romania

14. Alok Kumar Pandey, Shikha Puri, Uttam Kumar Roy. Naxalism, Education, and Youth – Case of Bastar District, Chhattisgarh. International Conference on Sustainable Urbanism in the Global South -Annual Research On Cities Summit (**ARCS**) 7.0 10th Feb 2023. XIM University-Bhubaneswar, India
15. Narinderjit Kaur, Uttam Kumar Roy. Geographical location as the paradigm of urban form in native Indian settlements and the practices of Planning: Case study of Rajputana Towns. 3-Day National Youth Conference on Indian Knowledge Systems. 25-27 August 2023. IIT Roorkee
16. Nipun Behl, Uttam K. Roy. A critical review of housing adequacy parameters for Global South: Case of India. **ILUS**-International Land use Symposium 2023. October. 2023. **CEPT**. Ahmedabad
17. Puneet Mishra, Uttam Kumar Roy. A Commercial Attractiveness Model for Self-Organized Mixed-Use Streets in Delhi. **ILUS**-International Land use Symposium 2023. October. 2023. **CEPT**. Ahmedabad
18. Puneet Mishra, Uttam Kumar Roy. Exploring the Commercial Performance of Self-Organised Mixed-Use Streets in Delhi. 16th **Urban Mobility India** Conference & Expo. 2023. October. 2023. New Delhi
19. Bushra Shahriar, Uttam Kumar roy. Practical Indicators to improve urban flood resilience of a community: A case of urban flood mitigation in Dhaka Bangladesh. Integrated Disaster Risk Reduction For Inclusive Sustainable Development, 13th International Conference of the International Society for the Integrated Disaster Risk Management, **IDRIM** 2023. 28th Sept-30th Sept, 2023. IIT Roorkee
20. Nabh Hirwani, Namia Islam, Shubhajit Sadhukhan, Uttam Kumar Roy. Effects of Seating Positions on Air Pollution Exposure of E-Rickshaw Users: A Case Study in Roorkee. 7th Conference of Transportation Research Group of India (**CTRG**). 17th - 20th December, 2023. Surat
21. Bushra Shahriar, Uttam Kumar roy. Practical Indicators to improve urban flood resilience of a community: A case of urban flood mitigation in Dhaka Bangladesh. Integrated Disaster Risk Reduction For Inclusive Sustainable Development, 13th International Conference of the International Society for the Integrated Disaster Risk Management, **IDRIM** 2023. 28th Sept-30th Sept, 2023. IIT Roorkee
22. Sangeeth K, Uttam Kumar Roy. Determination of PLOS Based on the Delay in Free-Flow Pedestrian Speed on Footpath. (Abstract accepted for the conference after review). **Livable Cities Conference** London 2024/Amps. 26-28 June 2024. London
23. Mishra, Puneet and **Roy, U. K.** (2019): Deciphering Mixed Land Use: A Way Forward for Indian Cities: Global Conference on Flexible Systems Management, 2019. IIT Roorkee
24. Kumar, A and **Roy, U. K.** (2019). E-rickshaws as Sustainable Last Mile Connectivity in an Urban Dilemma: Case of Delhi. **ASCE : ICTD**. Alexandria, Virginia, USA
25. Raman, R., and **Roy, U. K.** (2019). Confusion, Classification, and Considerations of Mixed Land Use Planning. In International Conference on Future Cities - 2019 (pp. 55–58).
26. **Roy, U. K.** (2019): Transformations of Urban Green Spaces(UGS) in Sub-Cities: A comparative case study of New Town of Kolkata and Gurgaon of Delhi. *Fabos Conference on Landscape and Greenway Planning, University of Massachusetts, Amherst, USA*
27. Kaur, H. and **Roy, U. K.** (2018): Critical Appraisal of Traffic Management Strategies for a Mega Religious Procession: Case of NH-58 during Kanwar Yatra, India. **CTRG**, 17-20 December, **IIT Bombay**, Mumbai
28. Ghosh Ratna, **Roy, U. K.** (2018) : Evolving Strategies for Housing Development at a Sub-regional Level. *8th Annual International Conference on Urban Studies & Planning*. 4-7 June 2018, **Athens, Greece**
29. Biltoria, A. and **Roy, U. K.** (2017): Utilization of AAC blocks as pre-fabricated smart building materials in affordable housing: 8th International Conference on Smart Material, Structures and Systems (**ISSS 2017**), July 5-7, **IISC Bangalore**

30. Mukherjee, M., **Roy, U. K.**, Biswas, A., Arora, K., De, B. and Srivastava, A. (2016). Changing paradigms of Affordable Housing in Independent India. 63rd RBDCC. March 2-3, 2016 at **Penn State, University Park, USA**
31. **Roy, U. K. & Mukherjee, M** (2016) Process and role mapping for technology mission towards 'housing for all' in India'. 41st IAHS Congress, 13-16 September 2016, Algarve, **Portugal**
32. **Roy, U. K.** (2015). Prioritisation in a Participatory Planning Process: Case Study of KUSP, Kolkata, w.r.t Disaster Management. 6th **IDRIM**, 28-30 October 2015, **New Delhi**.
33. **Roy, U. K. (2015)**. Revisiting the concept of Smartness for Indian Cities and beyond. *Asian Planning School Association (APSA)*, **Malaysia**, 10-12 Aug 2015
34. Mishra, P. & **Roy, U. K.** (2019). Deciphering Mixed Land Use: A Way Forward for Indian Cities. *Global Conference on Flexible Systems Management*. IIT Roorkee
35. **Roy, U. K. & Kumar, A.** (2017): Prospect and Challenges of Public bicycle sharing system in Indian Cities: **NCORT** conference, October 14-16, **IIT Roorkee**
36. Saini, V. & **Roy, U. K.** (2017): Planning Strategy for the Sustainable Sports City in Rajasthan, 5th *Rajasthan Science Congress*, 13-15 October, Jaipur
37. Kaur, H. and **Roy, U. K.** (2015). Critical Appraisal of Current Traffic Management Options for a Mega Religious Procession: Scenario of NH-58 during Kanwar Yatra. *Recent Advances in Traffic Engineering (RATE-2015)*, SVNIT, Surat
38. Dutta, S., **Roy, U. K. and Roy, M.** (2015). PV integration as a tool for transforming existing Indian cities as smart cities. *European Photovoltaic and Solar Energy Conference (EUPVSEC)*, Hamburg, Germany.
39. **Roy, U. K.**, Roy Madhumita & Dasgupta Arpan (2015): Bridging the Missing Links of Smart City Concept; Indian Buildings Congress, 1-2 September, New Delhi, India
40. **Roy, U. K. & Biltoria Atul** (2014). Essential Dimensions of Inclusive Urban Planning. *National Town and Country Planning Congress*, Pune, 2014, P-281-287
41. **Roy, U. K.** (2012), Revisiting Pedagogical Options in Planning Education, *National Town and Country Planners (NTCP) Congress*, Mysore
42. **Roy, U. K.**, Roy M. & Saha, S. (2009). Energy Optimization through Open-Industrialised Building System in Mass Housing Projects. *Indian Buildings Congress*, January, Nagpur, India
43. **Roy, U. K. & Ganguli, M.** (2009): Integration of Top down & Bottom up approach in Urban and Regional Planning: West Bengal Experience of Draft Development Plans (DDP) and beyond: *National Town and Country Planners Congress*, 23-25 January, Goa, India
44. **Roy, U. K. & Roy, Madhumita & Saha, Subir** (2007): Mass-Industrialized Housing to Combat Consistent Housing Shortage in Developing Countries: Towards an Appropriate System for India; **XXXVI IAHS, World Congress on Housing, Kolkata**. November 03-07
45. **Roy, U. K.** (2007). Changing Scenario and Emerging Planning Norms of Educational Infrastructures in Planned Townships: Case study of New Town, Kolkata. *Regional Conference of Institute of Town Planners India (ITPI)*. Ranchi.
46. **Roy, U. K.** (2008): Seismic Safety & Statutory Control in India: Issues and Suggested Framework for Building Rules and Regulations w.r.t West Bengal. *All India Seminar on 'Natural Disaster and Earthquake-Role of Civil Engineering'* by Institution of Engineers. Kolkata.
47. **Roy, U. K.** (2008). Addressing Water Supply and Sanitation Issues by Participatory Planning: Case Study of

Draft Development Plans (2007-12) of Urban Local Bodies in Kolkata Metropolitan Area. *World Water day*
Indian Institute of Environment, Kolkata

48. **Roy, U. K.** (2005). Development of New Townships: A Catalyst in the Growth of Rural Fringes of Kolkata Metropolitan Area (KMA). *Annual Conference of HUDCO Chair Institutes* New Delhi.

Professional Membership

1. **Council of Architecture**, New Delhi, Registered Architect (Life Member)
2. Indian Institute of Architects (**IIA**), Associate Members
3. Institute of Town Planners India (**ITPI**), Associate Member
4. Indian Institute of Environment, Life member
5. Arc Peace (International Architect, Designer, Planner for Social Responsibility)-Associate Member

Extension/Delegation Activity

1. Member, Technical Committee, Urban Mobility India (**UMI**) 2024
2. **Board of Studies** member (2021-22), DIT University, Dehradun
3. Expert Panel Member for Selection Committee Meeting on 12th March' 21 - School of Architecture & Design, DIT University, Dehradun
4. Area **Advisory Board members** for masters of Planning Curriculum (2021-22), Amity University, NOIDA, Delhi NCR
5. **NBA Accreditation** Visit for M. Tech (Urban Planing) in **SVNIT Surat**, 7-9 February, 2014
6. **ITPI Accreditation** Visit to DIT University during 2024
7. Selection Committee in **HPSC** for the selection of Assistant Architect
8. Advisory meeting for GIS based Master Plan for **Tripura** State

PhD thesis: External Examiner

1. **IIT Bombay**: Evaluating Occupants' Quality of Life in Low-Income Affordable Housing in Mumbai, India by Kshetrimayum Bangkim Singh (September 2020)
2. **SPA Delhi**: Resilience Framework for Flood Affected Region: Case Study of Bihar, by Zeeshan Ibrar, guided by Prof. Dr. Vinita Yadav (June 2024)
3. **NIT Calicut**: Development Of A Decision Framework For Prioritizing The Improvements Of Pedestrian Facilities In Urban Areas by Aromal V. (March, 2024)
4. **SPA, Bhopal**: The Socio-Spatial Impacts of Growth Dynamics at Urban Peripheries – An Inter State Inquiry by SWATI SHARMA (Feb, 2023)
5. **SPA, Vijaywada**: Examiner of term paper of B. Arch, 2017
6. **Amity University**: Developing A Framework For Effective Implementation Of Local Area Plan: A Case Of Delhi, by Anika Kapoor Under the Supervision of Prof. (Dr) Amit Hajela & Prof. (Dr) Ekta Singh (November 2022)
7. **SPA, Vijaywara**: Allocation of Affordable Rental Housing for Economically Weaker Section in a Metropolitan Planning Context: A Case of Delhi by Ms. Ekta (SRC member)
8. **MITS Gwalior**: B. Arch Thesis Examiner, 2014
9. **Graphic Era University**: B. Arch Thesis Examiner, 2016

Reviewers in Reputed Journals

1. Land use Policy (**Elsevier**)
2. Regional Science, Policy and Practice (**Wiley online**)
3. International Journal of Housing Markets and Analysis (**Emerald**),
4. Case Study in Transport Policy (**Elsevier**)
5. Journal of Sustainable Real Estate (Taylor and Francis)
6. Transportation Research Record (**TRB**)
7. Journal of Urban Management (**Elsevier**)
8. Higher Education Skills and Work Based Learning (**Emerald**)
9. International review of Spatial Planning and Sustainable Development (**JStage**)
10. Journal of Institution of Engineers Journals, India (**Springer**)

Invited lectures and representations

1. Expert panel member in the **Institute of Town Planners India, East Zone Conference** on Challenges of Plan, Preparations and Implementation on 11th November 2022
2. Lecture on Addressing Urban Challenges by Effective Participatory and Advocacy Planning, in the Short Term Course on the topic “Planning Strategies for Urban Challenges” in the **Department of Architecture, NIT Hamirpur** during 27 June - 1 July, 2022
3. Department of Architecture and Planning, **NIT Calicut** invites you to a WEBINAR ON **UN Habitat Urban Breakfast** on “ Sustainability In Urban Habitats ” On 4th October, 2021
4. Expert Lecture on Critical role of Planners as City Managers: Expectations and Opportunity on Wednesday, 06 Oct 2021 organised by **Institute of Town Planner India, Uttarakhand Regional Chapter**
5. Delivered lecture on ‘Post-pandemic Urban Planning: Fundamental questions on Landuses’ at CUBE, SAIARD, Kolkata 15th May 2021
6. Delivered lecture on ‘Urban Resilience and City Planning’ in the webinar on “Planning Pandemic Resilient Cities for India: The Road Ahead” at **Centre for Urban Governance (CUG)**, Atal Bihari Vajpayee Institute of Good Governance and Policy Analysis (**AIGGPA**), Bhopal, 8th January 2021
7. Delivered special lecture on ‘Rental Housing Policy and Model Tenancy Act (Draft) for Madhya Pradesh’ at **Centre for Urban Governance (CUG)**, Atal Bihari Vajpayee Institute of Good Governance and Policy Analysis (**AIGGPA**) on 19 December 2020
8. Special Session moderator, in SUMO-2020, Technical session organized by Centre for Transportation System (CTRANS) IIT Roorkee Oct 3, Sunday, Theme: Comprehensive Mobility Plan Session
9. Delivered special lecture on ‘Urban Planning for Creating Resilient Cities’ at UGC Human Resource Development Centre, **University of Mumbai**, on 26th October, 2020
10. Delivered special lecture on ‘Online teaching through Microsoft Teams’ at College of Engineering, Roorkee, on 26th September 2020
11. Invitation as external expert for b. Arch, end semester practical examination december 2018 at school of architecture & planning, External Expert at SAP, GEHU on Tuesday 04th December 2018. Himgiri Zee University

12. Delivered invited lecture on “Studying Architecture: Pursuing a Dream” at **Amity University**, Kolkata on 17th Nov, 2015
13. As **External Examiner/Jury Member** for the Practical Examination of Architectural Design (Third year UG Project, B. Arch) in the Department of Architecture, Madhab Institute of Technology and Science (**MITS**), **Gwalior** on 29th May 2015
14. Visited as **External Examiner/Jury Member** for the Practical Examination of Architectural Design-IX (Final UG Thesis Project, B. Arch course Department of Architecture, **Punjab Technical University, Gyani Jail Singh Campus, Bathinda**
15. Delivered Keynote address in the Seminar on “Energy Policy-Issues & challenges” in **K.N.G.D Modi Engineering College**, Modinagar-201204 March 06, 2014
16. As expert in Planning Education to evaluate its PG Engineering (Urban Planning) programmes in Tier I format for grant of **NBA accreditation** at **Sardar Vallabhbhai National Institute of Technology, Surat**, Gujarat during 07th to 09th February, 2014
17. Represented the Architecture and Planning Department two times (22 Feb 2013 & 4 June 2013) in the **Technical Evaluation Committee (TEC)** (framed under the Uttar Pradesh Awas Vikash Parishad) meeting for ‘evaluation of proposed **HighTech Town Ship by Uttam Steel Industries**’ in Lucknow and contributed by giving planning appraisal.
18. 25th May 2013 Attended the follow up “Coordination Group for facilitating inter-disciplinary & inter-institutional initiatives on the theme of the ‘**Future of Cities**’” at India International Centre, New Delhi on 4th September 2013
19. Delivered address as Key Speaker’s in National Town and Country Planners Congress (**NTCP**) held in Nagpur in 2010
20. Delivered address as Key Speaker’s in National Town and Country Planners Congress (**NTCP**) held in Mysore in 2012
21. Lectures in Self Help groups and Local governance in Guwahati invited by Regional Centre for Urban and Environmental Studies(MOUD), Lucknow on 7.9.2010
22. Lectures in Affordable Housing in Roorkee invited by Local Centre of Institution of Engineers India on October 2014
23. Lectures in 74th Constitutional Reforms vis-a'-vis Urban Local Governance in Tripura invited by the Institutional Development Consultancy (IDC)-Agartala Project under the **NERCCDIP ADB funding** on 3rd February, 2011
24. Lectures in Training Workshop for Ward Secretaries of Agartala Municipal Council (AMC) on Date: 19-09-2011 invited by the Institutional Development Consultancy (IDC)-Agartala Project under the **NERCCDIP ADB funding**
25. Presentation in the Workshop ‘Rebuilding Kolkata: an Urban Vision’ held on 17th March 2012 organised by West Bengal Regional Chapter, ITPI

Short Training Courses conducted

Summary:

Total : More that 50 (fifty)

Training of trainers/teachers (TOT) including QIP: 4 (four)

MOOC courses (**NPTEL**) conducted: Two + six re-run

GIAN course: one in March 2019

Short Training Courses	Sponsor
1. NPTEL course in Housing policy and Planning (Twenty Hours/forty lectures) 2017, 2018, 2019, 2020, 2021, 2022, 2023, 2024	MHRD
2. NPTEL course in Urban Governance and Development Management (UGDM) 2019, 2020, 2021, 2022, 2023, 2024	MHRD
3. Inclusive Planning and Affordable Housing, 2-6 June 2014 (QIP)	MHRD
4. Affordable Housing through Joint Venture (GOI) (Three days), One in 2012-13	HUDCO
5. In-Service Training for HUDCO Executives on "Affordable Housing and Land Management Aspects" (Five days), One course in 2012-13	HUDCO
6. Leadership Management for Urban Governance (GOI) (Three days), One in 2012-13	DOPT, GoI
7. Planning for Urbanised Panchayats (GOI) (Five days), One course in 2011-12	DOPT, GoI
8. Situational Leadership for Urban Governance (Three days), One course in 2011-12	HUDCO
9. Slum Free City Planning (GOI) (Three days), Four courses in 2011-12	DOPT, GoI
10. Training for Elected Members of Bhatpara Municipality (at Bhatpara) (Three days), One course in 2010-11	HUDCO
11. Training for Elected Members, Departmental Heads and Officers of Bhatpara Municipality (at Bhatpara) (Three days), One course in 2010-11	HUDCO
12. Managing Change for ULBs (GOI) (Three days), Two courses in 2009-10	DOPT, GoI
13. Leading Municipality (GOI) (Three days), One course in 2009-10	DOPT, GoI
14. Management of City Image (GOI) (Three days), One course in 2009-10	DOPT, GoI
15. Joint venture in Social Housing and Infrastructure Development (GOI) (Five days), Four course in 2009-12	DOPT, GoI
16. Training programme for non-Executives of HUDCO (Three days), One in 2009-10	HUDCO
17. Training Programme for the Executives of HUDCO (Five days), One in 2009-10	HUDCO
18. Effective Municipal Councillors (GOI) (Three days), Six courses in 2009-12	DOPT, GoI
19. Induction Training Course for Assistant Engineers of Kolkata Municipal Corporation (Eleven days), One course in 2007-08	DFID
20. Urban disaster and risk management for Panihati Municipality (Two days), One course in 2007-08	Panihati Municipality
21. Training for Engineering Staff of Rajarhat - Gopalpur Municipality (One day), One course in 2007-08	Rajarhat - Gopalpur Municipality
22. Managing Change for ULBs (GOI) (RTC Jalpaiguri) (Three days), One in 2007-08	DOPT, GoI

23. Urban Disaster Risk Mitigation for Panihati Municipality(Two days), One in 2007-08	Panihati Municipality
24. Orientation Course for Elected Members of Baruipur Municipality (Five days), One course in 2007-08	Baruipur Municipality
25. Training for Community Workers and Ward Committee Members of Baruipur Municipality (Three days), One course in 2007-08	Baruipur Municipality
26. Training Programme at RTC Burdwan(Three days), One course in 2007-08	DOPT, GoI
27. In-Service Training for Executive Officers of KMA Municipalities (Four days), One course in 2006-07	DFID
28. In-Service Training for Engineers of KMA Municipalities(Five days), One in 2006	DFID
29. In-Service Training for Asstt. / Dy. Managers of KMC(Six days), Seventeen courses in 2006-10	DFID
30. Orientation Programme on JNNURM in Baidyabati Municipality(one day), One course in 2006-07	Baidyabati Municipality
31. Induction Training for Asstt. Managers of KMC (Six days), Five course in 2006-08	DFID
32. Tackling Urban Slums (Three days), Three courses in 2006-09	DOPT, GoI
33. Orientation Programme in Computer Applications for Municipalities(Five days), Three courses in 2005-6	HUDCO
34. Orientation Programme for newly appointed Executive Officers in KMA Municipalities	DFID
35. City/Urban Management (GOI) (Five days), One course in 2005-06	HUDCO
36. Orientation Programme for Chairpersons/ EOs (Three days), One in 2005-06	DFID
37. Orientation Programme for Municipal Engineers(Five days), One in 2005-06	DFID
38. Capacity Building of Elected Representatives (Three days), Three in 2005-06	HUDCO
39. Infrastructure Planning and Design: Water Supply and Urban Transport(Five days), One course in 2005-06	HUDCO
40. Capacity Building of Elected Representatives (four days), three courses in 2004-06	HUDCO
41. Orientation Programme of Ward Committees (Two days), One course in 2004-05	NIUA
42. Orientation Programme for members of Ward Committees (Two days), One course in 2004-05	NIUA
43. Water Supply and Urban Transport (Five days), One course in 2004-05	HUDCO
44. Orientation Course for Engineers of KMA Municipalities (Three days), One course in 2004-05	DFID
45. Orientation Programme for Assessment-in-Charge of Municipalities (Five days), Two courses in 2004-06	NIUA

Training of Trainer/FDP organized (Other than short term courses)

1. **GIAN** course on Risk Communication: Application to Urban Planning for Creating Resilient Cities: 2019
2. MHRD Course on Affordable Housing and Inclusive Planning (Fourdays), one course in 2014
3. Design of Training* (DOT) (five days) one course in Uttarakhand Academy of Administration in 2012
4. Trainer Development for ULBs- Part-I & II (**GOI**) (Ten days), Two courses in 2010-11, 2011-12

*Note: Course was conducted as **national resource persons** and Recognised Trainer (RT) in Design of Training (DOT) module developed by Thames Valley University and conducted by Department of personnel and Training (DOPT), Govt of India

Administrative Responsibilities

Timeline		Level/ organisation	Role/port folio
2024	2026	Deptt/Instt	1. Team Leader , AMRUT Centre of Urban Planning, MOHUA
2022	2025	Centre/Institute	2. Head , Centre for Transportation System (CTRANS)
2014-19 & 2020-21		DAP, IITRoorkee	3. Convenor, DFSC (Department Faculty Search Committee)
2020	2021	Institute	4. Member, Advisory Committee for E-Learning Centre, IIT Roorkee
2021	2022	Institute	5. Chair , Centre Academic Program Committee (CAPC), CTRANS, Member IAPC 6. Advisory Committee for making of promotional video/film(s) for 175 years of celebration of IIT Roorkee)
2020	2022	Institute	7. Chair , Department Academic Program Committee (DAPC), Member IAPC 8. Member of Advisory Committee on Online Teaching , IIT Roorkee
2018	19	Institute	9. Member, SRIC Committee
2014	2020	Department of Architecture and Planning (DAP), IIT Roorkee	10. Coordinator , Design Coordination Committee (DCC) and B. Arch 11. Member, Department Research Committee (DRC) (from 2016-2020) 12. Coordinator , Examination 13. Member, Departmental Purchase Committee (DPC) 14. Chairman Canteen Tender Committee (2017) 15. Member COA registration committee (2014, 2016, 2017) 16. Chairman and members, Grade Moderation Committee
2014	2016	DAP, IIT Roorkee	1. Member, Department Administrative Committee (DAC) 2. Member, Department Academic Programme Committee (DAPC)
2016	2018	CTRANS, IIT Roorkee	1. O.C M Tech (1 st yr) (CTRANS) 2. Member Centre Academic Committee and
2013	2014	DAP, IIT Roorkee	1. Coordinator, MURP programme 2. Convenor of poster competition for vigilance week
2010	2012	Institute of Town Planners India (ITPI)	1. Member, Educational Standing Committee, ITPI 2. Secretary , West Bengal Regional Chapter, ITPI 3. Convenor , Workshop and Examination
2004	2012	Administrative Training Institute, Kolkata	1. Assistant Professor and Nodal Officer , HUDCO Chair 2. Warden , Trainee Hostel 3. Coordinator and Examination In-Charge , AITP programme at Kolkata
2001	2004	(WBHIDCO), Government of West Bengal,	1. Coordinator for Planning advisory group (PAG) 2. Execution of project with multi-disciplinary team work

Major Conference/Symphosium organized

Conference/ Seminar and Workshop	Sponsored By
1. SynergIA, Industry-Academia Day of CTRANS	IIT Roorkee
2. ThinQuest , Centre Research Day, CTRANS 2022 and 2024	IIT Roorkee
3. PhD Workshop on Case Method	IIT Roorkee
4. Validation Workshop of Inclusive Planning	IIT Roorkee
5. Chair of technical committee in International conference in Sustainable Built Environment (SBE)-II in IITR	APD, IITR
6. Convenor, National Symposium on West Bengal Urban Strategy as Secretary ITPI, West Bengal Regional Chapter (WBRC) in 2011	ITPI, WBRC
7. Convenor for technical committee Workshop ' Rebuilding Kolkata: an Urban Vision ' held on 17th March 2012 organised by West Bengal Regional Chapter, ITPI	ITPI, WBRC

Refresher Courses attended

Sl no	COURSE NAME	VENUE/ORGANISER/DATE
1	Three day Training Course for the Trainers & Evaluators on GRIHA Rating System	School of Ecology, Infrastructure and Human Settlement Management on 24-26th July, 2012
2	Five day course in Natural Disaster Management	National Institute of Disaster Management (NIDM) 2011
3	Three weeks Recognised Trainer (RT) development course on Design of Training (DOT)	Department of Personnel and Training, Government of India, 2010
4	Basic Leadership Skills	XLRI, Jamshedpur, 2008
5	Two weeks course on Leadership and Management	UN Habitat and HUDCO, 2007
6	Five day course on Direct Trainers Skills-II	Department of Personnel and Training, Government of India, 2007
7	Two weeks course on Direct Trainers Skills (DTS) and Design of Training (DOT)	Department of Personnel and Training, Govt of India in association with Thames Valley University, London, 2006
8	Three day course on Self Development for Global Managers	Indian Institute of Management (IIM), Calcutta, 2006
9	Five day course on Values in Administration	Administrative Training Institute, Kolkata, 2006
10	Five day course on Transactional Analysis	Administrative Training Institute, Kolkata, 2006
11	Five day course on Leadership and Management	National Institute of Urban Affairs (NIUA), 2005
12	Five day course on Training of Trainers (TOT) in Urban Transport	Institute of Urban Transport India (IUTI), 2005
13	Five day course on Certificate Course in Disaster Management	Disaster Management Institute(DMI), Bhopal, 1999

Implementation Projects

1. As PI of the project for Master Consultancy for Zonal Development Plan for Patna

- Zonal Development Plan
- Area Development Scheme
- Procurement of Consultants
- Appraisal and handholding of consultants

2. As Architect-Planner for New Town (Rajarhat) Kolkata (now a Smart City)

New Town Kolkata is about **3000 hectare township** in the vicinity of Kolkata and envisaged as a counter magnet in early late 90s. As the in-house Architect and Planner I was involved in detailed activities of all ranges of planning, design and executing monitoring activities as indicated below (2001-2004).

- **Physical/spatial Planning:** Master Land Use planning for whole new town (initial structure plan was done earlier by IITKGP),
Plot layout planning of Action area I (650 ha) and Action area II (about 1100 ha)
Planning and Design of Rehabilitation & Resettlement areas in action area I & II.
- **Infrastructure:** Physical and social Infrastructure networks and it's planning,
Traffic & Transportation Planning and design including planning for mass rapid transport (East-West metro).
- **Land Assembly:** Planning for participation based land Acquisition using Land Acquisition Act 1894, formulation of Land Use Map Register (LUMR) & Development Control Rules and Building Regulations (DCR) under T & CP Act.
Project Costing and Viability analysis of Action area II.
- **Urban Design:** Non Motorised Transportation (NMT) based Landscape Plan for residential neighbourhoods, Urban Design of major intersections, business districts and commercial areas
- **Architecture:** Design of WBHIDCO Office building and local shopping centre

3. As Architect Planner of GBPL, Kolkata: **Architectural design and execution**(2000-2001):

- IT Campus for **WIPRO** Technologies at Kolkata,
- Office Building for State Planning Board, Agartala, Tripura
- Library for Tripura University at Agartala, Tripura
- Convention Complex at Agartala, Tripura

4. As Assistant Architect, under **Ar. Prabir Mitra**, Kolkata: **Architectural design and execution**(1997-1998):

- Videsh Sanchar Bhavan for **VSNL**, Kolkata,
- Ffort, The Resort Complex at **Raichak**, West Bengal,
- Sangrilla Resort, Digha, West Bengal
- Mallica Condominium Complex, Raichak

5. Projects executed as **institute Architect and faculty members of ATI, Kolkata** (2004-2012)

- Design of 100 room **Trainee Hostel** Extension at Salt lake City for ATI, Kolkata
- Design of **Centre of Excellence** in Good Governance at Salt lake City in ATI, Kolkata
- Design for Campus Image, Public Art and Way Finding for ATI campus, Kolkata

6. Other misc projects

- Design of Residence of Mr. Subhash Ch. Karmakar at Shayamnagar, WB
- Design of Residence of Mr. Chandrama Shaw at Kalyani, WB

Curriculum Development

Year and designation	Roles
2022-2025, Head , Centre for Transportation Systems	Revision and introduce new PG curriculum with the NEP, 2020
2023, Member, PG Curriculum Revision Committee, IITR	Revision of all PG curriculum with the NEP, 2020
2022, Chair, Department Academic Program Committee (DAPC), Architecture and Planning Department	Revision of B. Arch curriculum Started Minor specialization in Architecture
2014, Coordinator MURP	Revision of PG curriculum

Major Academic courses taken at IITR

(A detailed list with course/faculty feedback is shown in Annexure)

Courses	Subject and Levels
Housing (Newly developed)	ARN-659, PG
Public Policy Analysis (Newly developed)	ARL-640, PG
Public Policy and Urban Management (Newly developed)	ARN-674, PG
Planning Theory (Newly developed)	ARC-623, PG
Land and Real Estate Management (Newly developed)	ARN-666, PG
Building Code and Regulation (Newly developed)	ARN-208, UG
Landscape Architecture	ARN-206, UG
Architectural Design-I, II, III, IV, V, VI, VII	ARN-102, ARN 201, ARN 202, ARN-301, ARN-302, ARN-401, ARN 402, UG
Infrastructure Planning and Management (part)	CT-502, PG
Management of Transportation Systems (part)	CT-611, PG
Planning Studio-I, II, III	ARN-651, ARN-652, ARN 753, PG
Prefabrication and Modular Coordination	AR-2113 (UG)

Uttam Kumar Roy

Professor,

Department of Architecture and Planning

Team Leader, AMRUT Centre of Urban Planning (ACUP), MoHUA, Govt of India

Joint faculty, Centre for Transportation Systems, IIT Roorkee

In-Charge: Spatial Planning Lab (SPL)

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