



International Conference on Future is Urban 2022



Urban Planning & Resilience, Nature Based Solutions and Capacity Building (Hybrid Mode)

Nirma University, Ahmedabad

16,17,18 December, 2022

Urban Resilience and Adaptation for India
and Mongolia

Curricula, capacity, ICT and stakeholder
collaboration to support green & blue
infrastructure and nature-based solution
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INTRODUCTION

This Conference is a part of knowledge dissemination under the URGENT Project (Urban Resilience and Adaptation for India and Mongolia: curricula, capacity, ICT and stakeholder collaboration to support green & blue infrastructure and nature-based solutions). The URGENT Project is co-funded by ERASMUS+ and European Union. Involving 16 organisations and institutions from 5 different countries across Europe and Asia. The URGENT Project aims to contribute to the capacity building between academics and other stakeholders.

Floods, droughts, heatwaves, and other extreme conditions are immediate dangers to all species. The potential role of green and blue spaces to solve these difficulties and reduce their frequencies with Blue and Green Infrastructure (BGI) and Nature-Based Solutions (NBS) is gaining momentum. Unlike many constructed solutions, they offer the ability to address both climate mitigation and adaptation concerns at a minimal cost while also providing several additional advantages to people and the environment (Seddon et al., 2020). BGI and NBS supplement and, in some cases, completely replace the requirement for grey infrastructure by combining urban hydrological functions (blue infrastructure) with plant systems (green infrastructure). (Dreiseitl & Wanschura, 2016).

Institute of Architecture & Planning, Nirma University organized the first International Conference on 'Future is Urban': Liveability, Resilience & Resource conservation(ICFU'21) from December 16 to 18, 2021. This conference was enriched with the deliberations & august presence of leading Scholars, Academicians and Experts from across the globe in the field of Urban Planning, Urban Design & Architecture.

The second International Conference on Future is Urban 2022 (ICFU'22) aims to create a platform for scholars, academics, practitioners and other experts from the field of Urban Planning, Ecology, Infrastructure, Urban Design, Architecture and Technology and other multi-disciplinary emerging research areas with issues and concerns related to the environment are shared and deliberated. The ICFU'22 hopes to add a step toward creating a more sustainable, resilient and liveable urban future for all of us. Selected peer reviewed papers will be published in a Scopus or Web of Science indexed edited volume.

1. Urban Planning and Resilience: The theme focuses on Science, Policy and Management for mitigation and adaptation of innovative approaches to address issues affecting urban areas including coastal and marine NBS.

Keywords: Urban Design, Urban Planning, Mitigating Disaster, Climate Change, Coastal and Marine NBS, Smart Green and Blue Urban Planning

2. Nature Based Solutions: The theme will delve into understanding the synergy in Nature Based Solutions (NBS) with focus on ecology and management of urban and peri-urban greens.

Keywords: Ecology, Urban Forestry, Urban Agriculture, Integrated Smart Green and Blue Urban Planning approaches, Environment and Ecosystem Services

3. Capacity Building: The theme will explore participatory, technical and institutional framework approach to manage natural resources.

Keywords: Public Participation, Information Communication Tools (ICT), Institutional Framework, Science, Management and Policy.



ABOUT THE CONFERENCE

Institute of Architecture and Planning, Nirma University organised a three day international conference on Future is Urban 2022 from 16th to 18th December 2022. The conference concurs to the U20 agenda highlighting urban challenges in G20 where India holds the Presidency for 2023. The main themes of the conference were Urban Planning and Resilience, Nature Based Solutions and Capacity Building as part of the ERASMUS funded *Urban Resilience and Adaptation for India and Mongolia: curricula, capacity, ICT and stakeholder collaboration to support green & blue infrastructure and nature-based solutions* (URGENT Project). The chief guest for the occasion was Dr. D. S. Meshram, President Institute of Town Planners, India (ITPI) and Guest of Honour was Dr. Hitesh Vaidya, Director National Institute of Urban Affairs (NIUA). 20 academicians from partner countries Germany, Estonia, Italy, Mongolia and India were present at Nirma University for the conference that was conducted in hybrid mode. The two day conference saw paper presentations from over 250 authors through 5 technical panels running parallelly with 2 sessions in each one every day. Overall, in 20 technical sessions, 107 papers were presented and saw participation from USA and Srilanka also along with 5 partner countries Germany, Italy, Estonia, Mongolia and India. Presenters from over 45 cities deliberated on conference themes and presented theoretical and application based approaches during this academic discourse.

All the participants along with the international delegation were taken on an exploratory tour to GIFT City on 16th December 2022 to showcase its unique planning and approach. They were taken to AWCS Plant, Utility Tunnel and District Cooling Plant to showcase the state of art development at GIFT CITY.

The institute on this occasion also held an exhibition of student's work showcasing the innovative projects undertaken by the students of Bachelor of Architecture Program. This exhibition included models prepared by students for Architectural Design Studio, History of Architecture and Structure. Metal workshop models and drawings were also put on display. The exhibition reflected a diverse pedagogical thinking and approach of the Institute.

The two day technical sessions we followed by a visit to historical and contemporary Blue and Green infrastructure in the UNESCO World Heritage city of Ahmedabad. The Heritage walk early in the morning to dynamic old city of Ahmedabad was followed

by visit to Sarkhej Roza complex, the Medieval Era perceived as the Acropolis of Ahmedabad. Gandhi Ashram along the Sabarmati River added a sense the serenity and belonging. The visit culminated at Adalaj step-well that showcases awareness about water conservation for many centuries.



URGENT ICFU 2022 COMMITTEES

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Prof. Kalev Sepp

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Prof. Ochir Altansukh

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URGENT PROJECT

An IPCC SR (2018) identifies urbanization as a key GHG emission driver, while also recognizing a broad variety of mitigation options yet underexplored, in particular in the Global South. Development of Green & Blue Infrastructure. (GBI), as well as promotion of ecosystem services and biodiversity in urban areas through nature-based-solutions (NBS), is seen as a way to develop climate-proof cities (IPCC, 2018) as well as to increase livability through the provision of affordable recreation, sanitation & stormwater drainage (SDG 11, UN GA/RES/70/1).

Urban sprawl takes a particularly challenging scale in Asia: attracted by the promise of economic opportunities associate with cities or fleeing from hardships associated with conflicts & environmental degradation, most new city dwellers are facing socio-economic segregation entailing limited access to sanitation & water supply, urban recreation, as well as higher exposure to weather extremes. NBS, although universally recognized as an opportunity for the development of resilient & liveable cities, is still in limited use as an urban planning & management tool. To overcome this, especially as regards cross-sectoral integration, policy relevance, and timely uptake of the freshest practices and solutions, Asian countries urgently need to boost their national expertise. This can be achieved through the integration of academic communities with praxis stakeholder groups, fast & efficient internationalization of research & education, but also through closer cooperation within a region, where knowledge exchange is still suboptimal, even between neighboring countries (IPBES, 2018).

To achieve an in-depth understanding of enabling conditions for GBI & NBS and related capacity gaps, in particular as regards educational provision & labor market expectations, URGENT initiative groups ran surveys in 4 locations across India and 2 in Mongolia. In September-December 2019, survey outcomes were discussed in joint stakeholder-academia workshops sessions. Based on survey results, the 5 URGENT cross-cutting themes were offered to experts as a basis of a discussion on needs and capacities:

- Urban forestry,
- Landscape architecture and phytodesign,
- Urban permaculture,
- Integrative smart green & blue urban planning,

- Observation,
- Information, and communication.

The URGENT's aim is to promote green & blue infrastructure and nature-based solutions (GBI & NBS) for resilient, climate-friendly, and liveable cities in India and Mongolia through ICT-enhanced tertiary education linked to labor markets & wider stakeholder circles. This aim will be achieved through the following objectives:

1. To revise and upgrade selected GBI & NBS – relevant BSc, MSc & Ph.D. programs in PIs to make them end-user-oriented & policy-relevant, and develop 6 modules addressing GBI & NBS-related hotspots, that can be used interchangeably in tertiary & LLL education.
2. To develop shared URGENT Collaborative Learning Platform & online training services of the new generation for qualitative improvement of the education process & academic workflow support among universities & stakeholders across the PCs & EU.
3. To create sustainable feedback mechanisms for end-users, ensuring adaptive & practice-relevant teaching contents, knowledge co-production opportunities, and stakeholder support to post-project course development & teaching.
4. To develop capacity for academic mobility, shared experimental facilities, and joint research by PIs & beyond.



URGENT

SESSION CHAIRS AND MODERATORS



SESSION CHAIRS

1. Dr. Akhlaq Wani
2. Dr. Bangzrach Dalai
3. Batbayar Bayarkhuu
4. Dr. Daniele La Rosa
5. Dr. Debjani Ghosh
6. Dr. J K Tripathi
7. Dr. Kalev Sepp
8. Dr. Luca Barbarossa
9. Dr. Mathimaran Natarajan
10. Prof. Ochir Altansukh
11. Prof. PK Joshi
12. Dr. Riccardo Privitera
13. Prof. S Jayakumar
14. Prof. Utpal Sharma



MODERATORS

1. Dr. Akhlaq Wani
2. Mr. Arjan De Groot
3. Dr. Bat Erdene Ganchimeg
4. Prof. Foram Bhavsar
5. Dr. Mathimaran Natarajan
6. Dr. Munkhtuvshin Khishigzundui
7. Dr. Neeru Bansal
8. Prof. Pooja Raval
9. Prof. Prachi Patel
10. Mr. Sarath Babu
11. Ms. Siiri Kuelm
12. Dr. Swati Kothary
13. Prof. Vibha Gajjar



EXPERT INTRODUCTIONS

Dr. Akhlaq Wani

Dr. Akhlaq Amin Wani currently works as Professor & Head at the Division of Natural Resource Management, Faculty of Forestry, Sher-e-Kashmir University of Agricultural Sciences and Technology of Kashmir (SKUAST-K) J&K, India. He has more than 15 year experience of research, teaching and extension in the field of forestry. He attained his B.Sc. Forestry from Dr. Y. S. Parmar University of Horticulture and Forestry Solan, India where he was nominated for Adlakha all round best graduate gold medal and awarded with merit of honor for achieving excellence in academics. He acquired expertise in remote sensing and GIS applications in Forestry while pursuing Ph.D. Forestry (Forest Management) and M.Sc. Forestry (Eco. & Management) from Forest Research Institute University. He also earned certifications on the subject from Indian Institute of Remote Sensing (ISRO) Dehradun and National Remote Sensing Centre NRSC (ISRO) Hyderabad. He has also qualified National Eligibility Test (NET) in Forestry and Environmental Sciences.



Mr. Arjan De Groot

He has done Master of Science (MSc) in Climate Studies, Wageningen University, Netherlands

And Master of Science (MSc) in Geology, University of Tübingen, Germany .He is a Scientific Employee associated with Institute of Geosciences and Geography, Halle.

His Main activities include Managing the MLU inputs for the global project URGENT, Urban Resilience and Adaptation for India and Mongolia and Support on Project Proposal for an Academic Special Research Area (SRA): "Who Owns Nature". Lecturer on Sustainable Landscape Development



Dr. Bangzrach Dalai



Dr. Batbayar Bayarkhuu



Dr. Bat Erdene Ganchimeg

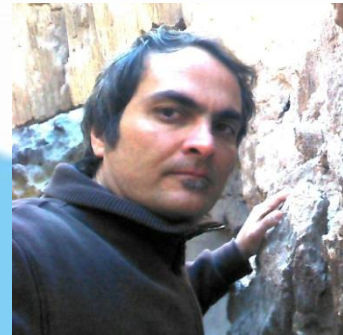
Bat-Erdene Ganchimeg is a lecturer at the Khovd branch school of National University of Mongolia, KHU Mongolia.

She teaches ecology, urban green facilities, protection of the nature, zoology and health study. Morals of the protecting nature is formed for students by these lessons. She organizes training and teaching between other teachers of her department and other people. It helps her for cooperating on teaching and working. For example, she always organizes teaching according to directions protecting of nature, urban green facilities between students and teachers and train instructor teachers. And every year she organizes biology Olympics with high school teachers between school learners. Her research direction is zoology and ecology. According to these directions 15 articles are published by me. In 2004 years she wrote a She has experience of implementing small grant projects and is involved in several projects such as Research Pasture of Har us National park, University of Grasefald , Germany and Khovd University, Mongolia, Research number and distribution of Argali sheep and Siberian ibex at Jargalant mountain, Research small mammal of Gobi Jungar, Research -Eurasian beaver of reaver Bulgan and Khovd, Project- ecological, geological

condition of Mongol Altai, a contractor of the Urban resilience and adaptation for India and Mongolia: curricula, capacity, ICT, and stakeholder collaboration to support green & blue infrastructure and nature-based solutions – URGENT project. She is studying at Irkutsk State Agrarian University named after A.A. Ezhevsky by doctor in Russian Federation

Dr. Daniele La Rosa

He is a urban and environment planner, and teaches spatial planning and urban design in Building Engineering MSc course at the University of Catania. His research interests are sustainable urban planning, ecosystem services, GIS for urban & landscape planning, environmental indicators, environmental strategic assessment, land use science & landscape studies. He has published 80 articles on the topic 'Reducing Risk of Urban Pluvial Flooding through Spatial Equity Approach.'



Dr. Debjani Ghosh



Prof. Foram Bhavsar

Prof. Foram Bhavsar is an Assistant professor Professor at Institute of Architecture and Planning, Nirma University with a exceptional 13 years of experience in the field of teaching as well as in architectural practice. She has M.Arch. from Dessau Institute of Architecture, Dessai, Bauhaus and brings a unique global exposure in academics. Her expertise lies in History of Architecture, and Computational design processes including VR and she has been doing various



research and development in academics. She has been involved in many teaching, collaborative engagements, research studies and administrative roles with various responsibilities regarding:- 1. Actively involved in a collaborative engagement with Ensa, Mauritius for last three years for teaching and research. 2. Research thesis guide for last 6 years in the subjects related to computational design, history of architecture, Urban design and housing. 3. Working as a member of consultancy for Ahmedabad world heritage city documentation project at Nirma University. 4. Involved with various administrative level committees like cultural committee, AIU committee, and, admission committee with several inter-departmental coordinators. 5. Involved in teaching VR based courses as an expert in various Universities in Ahmedabad. 5. Lifetime membership of COA

Dr. J K Tripathi



Prof. Kalev Sepp

Kalev Sepp is a professor and head of the Department of Environmental Protection and Landscape at the Estonian University of Life Sciences. He lectures on nature conservation, landscape ecology and analyzes environmental management. Kalev is the head of Ph.D. studies on environmental science and applied biology and is the head of [the Scientific Council of the Institute of Agricultural and Environmental Sciences](#). He was a Vice-



President of the International Union for Nature Conservation (IUCN), an elected Councillor of IUCN (2004-2012), and a Horizon 2020 Programme Committee member for Environment, including climate change in Brussels. Kalev belongs to the Expert Commission of applied research projects at the Ministry of Rural Affairs, a member of the Scientific Council of the Estonian Ministry of the Environment.

Dr. Luca Barbarossa

University of Catania (Italy) Department of Civil Engineering and Architecture . He is an engineer, PhD in Town and Regional planning, from the PhD program of the University of Catania, Faculty of Architecture. Research fellow of Urban and Regional Planning at the Department of Civil Engineering and Architecture and staff member of the Laboratory for Spatial and Environmental Planning, University of Catania (Italy).

His main fields of interests are city and regional planning, management issues related to land use, urban sustainability and the interaction between land use and transports. He is currently involved in urban design and city planning, using an holistic approach that is particularly committed to environmental issues (smart growth principles, greenways etc). He has published more than seventy scientific papers and books, edited books and International journals special issues, attended several international scientific conferences as an invited speaker and session coordinator, organised and hosted national and international conferences, seminars and workshops and served as a peer-reviewer from several International scientific journals indexed on Scopus and ISI Web of Knowledge databases. Since 1995 he worked as a consultant planner on urban and regional planning studies (mainly master plans, and detail plans of historical centres).

Dr. Mathimaran Natarajan

Dr. Mathimaran Natarajan obtained his Ph.D in Natural Sciences at the Swiss Federal Institute of Technology (ETH), Zurich, Switzerland and did his Postdoctoral Fellow at the University of Basel, Switzerland. Subsequently he worked as a Research Associate at the University of Basel and as a Senior Scientist at the Research Institute of Organic Agriculture (FiBL), Switzerland.



Dr. Mathimaran Natarajan research areas/interests include Ecophysiology, Agroecology, Agroforestry, Rhizosphere Ecology, Coastal and Marine Ecology, Environmental Microbiology, Molecular Ecology, Plant & Soil Microbiome, Animal-Microbe Interactions, Natural Resource Management, Sustainable Development, Climate Change. He is keen on research collaboration that involves basic and applied

research, especially using nature-based and/or other sustainable and climate-smart technologies.

Dr. Munkhtuvshin Khishigzundui



Dr. Neeru Bansal

She is a civil engineer and urban planner with over 25 years of experience spread across academics, governance and research. Her main area of interest lies in environmental and infrastructure planning with focus on sustainable development, climate change, renewable energy, environment law and policy, governance, EIA etc. She has many projects and publications to her credit spanning across these areas.



Prof. Ochir Altansukh

Ochir Altansukh is a professor at the National University of Mongolia. He works in the field of water quality assessment, river flow and quality modeling, river catchment modeling, surface water database development and mapping, environmental impact assessment, environmental audit, and environmental management system. He is an active researcher and a talented coordinator, and implements many research and projects, a co-manager of the integrated doctoral program for environmental policy, management and technology – INTENSE project, a coordinator of the Mongolian research team for the European innovation partnership on water and WATERSHARE knowledge platform.



Prof. P.K. Joshi

Prof. P K Joshi is Chairperson Special Centre for Disaster Research (SCDR) and Professor School of Environmental Sciences (SES), Jawaharlal Nehru University (JNU), New Delhi. Prior to shifting to New Delhi in 2007, he was with Indian Institute of Remote Sensing (IIRS) of Indian Space Research Organization (ISRO) for around a decade. During this, he was also adjunct faculty to the Centre for Space Science and Technology Education in Asia and the Pacific (CSSTEAP), an UN affiliated institution.



Prof. Joshi has immensely contributed in understanding geosphere and biosphere interactions while using inputs from earth observation system and geospatial technology. He has addressed some of the pressing questions related to climate change while integrating dataset from variety of land use land cover, and glacier, precipitation and temperature regimes. His research work also contributes to the disaster risk reduction while assessing the impact and vulnerability of climate change. Now, he has now spent more than two decades in actively contributing to a wide range of training, research and academic programmes in the field of geospatial analysis.

He is recipient of Indian Academy of Sciences and National Academy of Sciences India - Young Scientist Medals; and National Remote Sensing Award and National Award for Geospatial Excellent of ISRS/ISRO. He is Fellow of Indian Academy of Environmental Sciences (FIAES), Fellow of Indian Geophysical Union (FIGU) and Fellow of National Academy of Agricultural Sciences (FNAAS). He is the founding president of Indian Regional Association for Landscape Ecology (IRALE) and Chairman of Indian Society of Remote Sensing (ISRS) Delhi Chapter (2022-24).

He was visiting teaching faculty to University of Helsinki (Spring 2009), Yale School of Forestry and Environmental Studies (Spring 2011), University of Freiburg (2011 to 14) and Visiting Fellow Wageningen Agriculture University (WAU) (2002) and International Institute for Geo-Information Science and Earth Observation (ITC) (2002), The Netherlands and University of Technology Sydney (2018), Australia. He possesses a scholastic record coupled with strong leadership skills and networking capabilities.

Prof. Pooja Raval

Pooja Raval is an architect and urban designer. She has done her graduation from The Maharaja Sayajirao University of Baroda and her post-graduation from CEPT University. Her interest and specialization lie in Urban Design and Sustainability. She has practiced journalism at scale of columnist for The Times of India for 3 years with more than 30 articles on real estate published. As part of her extended interest and doctoral study on Political Economy of Neoliberal cities with case of Dholera she has published a few international publications as well. She has been an academician for 06 years and is pursuing her doctoral studies from FP, CEPT University. She has been a SAHAPEDIA, heritage walk expert for the World Heritage City of Ahmedabad



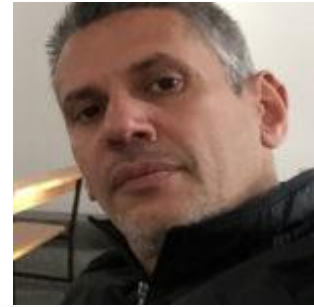
Prof. Prachi Patel

With a Bachelor's degree in Architecture from Sardar Vallabhbhai Patel Institute of Technology, Vasad, Gujarat and a Masters in Architecture- Theory and Design from CEPT University, Ahmedabad, She has worked on varied Industrial, Institutional, Residential and Interior Design projects. Being a part of Cept Research Development Unit (CRDU) as a Research Assistance under Prof. Utpal Sharma, she worked on Cept Campus Development Plan & Draft Development Plan of Kalyan Dombiwali Taluka, Mumbai. Prachi has taught in various Architecture schools in Gujarat. She has 10 years of academic and 6 years of professional experience in the field. She is pursuing her PhD. from Niram University. Her research domain is into Urban Design and Built Environment. She believes in exploration and experiment with the form of learning will help to improve experimental teaching outcomes. She also believes that hands-on involvement in work is a progressive way to learn and explore. Her additional area of interest involves Product Design and Photography. She believes that wandering is a way of learning.



Dr. Riccardo Privitera

He is Assistant Professor of Urban and Regional Planning at the Department of Civil Engineering and Architecture and staff member of the Laboratory for Spatial and Environmental Planning, University of Catania (Italy).



He got a Master of Science in Civil Engineering, held a PhD degree in Urban Planning and got the Italian National Scientific Qualification as Associate Professor in Urban and Regional Planning. He is member of the Italian Centre of Urban planning Studies and the European Land-use Institute, visiting Academic Scholar at the University of Sheffield (UK) and visiting Professor at the University of Alexandria (Egypt).

He is teaching 'Urban Design and Policy Making' at the Master Course in Civil Engineering and Architecture and 'Analysis of land and settlements' at the course of Urban Planning and Environmental and Landscape Sustainability' at University of Catania. From 2020 he is Lecturer of 'Adaptation and Mitigation to Climate Change in Spatial Planning' at the Alexandria University, Arab Academy of Science Technology and Maritime Industry, Suez Canal University within the International MSc. Programme Smart Environment and Climate Change Management (SECCM).

Mr. Sarat Babu

Sarath Babu M G is currently working as Lead (Data Solutions, Technology and Innovation), at Climate Centre for Cities, National Institute of Urban Affairs. His interests are in the field of Urban Resilience, Smart Cities, Data-Driven Governance, and Large Scale Infrastructure Project Management, and has over nine experience in the urban sector. He have extensively worked with the Smart Cities project of Bhopal, Jabalpur, Faridabad, Kochi, Tumakuru, and Namchi towards building techno-institutional capacities of the team and assisting cities in the successful implementation of projects. Sarath is an alumna of School of Planning & Architecture (SPA), New Delhi, and the University of Kerala. He holds a Masters in Urban Planning and Geography.



Ms. Siiri Kuelm

Siiri Klm is a Junior Researcher at the Estonian University of Life Sciences, Chair of Environmental Protection and Landscape Management. She holds a MSc in Engineering (Landscape Architecture) and a BSc in Environmental Protection, both from Estonian University of Life Sciences. Currently she is a PhD student under the supervision of Professor Kalev Sepp and interested in cultural changes and their effects on landscapes. Siiri has worked in and lead several research projects on different environmental subjects. For example she has participated in research projects dealing with integrated coastal and marine planning (concentrated in human-ecological networks); evaluated and mapped Estonian cultural heritage objects; leaded project that focused on mapping and assessing of priority ecosystem services by ecosystems on national scale in Estonia.

Prof. S Jayakumar

Prof. Jayakumar completed his PhD at Bharathidasan University, Tiruchirappalli, India and did his Postdoctoral research at Yonsei University, Seoul, South Korea. He joined Pondicherry University in 2010 as Reader and successively promoted as Professor in 2017. He is specialized in the field of application of remote sensing and GIS in natural resources management. His research team is working on fire ecology, elevation ecology, human- elephant conflicts, land cover change modeling, and wildlife habitat assessment in Western



Ghats, Eastern Ghats and North Eastern Himalayas. He has published more than 80 research articles and 50 conference presentation, 49 invited lectures. He has guided nine Ph.D. and 57 M.Sc. Students so far. Presently, eight Ph.D. students are doing their research under his guidance. He was heading the Department of Ecology & Environmental Sciences, Pondicherry University for more than three years from 2018 – 2022. He is a member of several administrative committees in Pondicherry University. He is also a member of School Board of Environmental Sciences, Assam University, Central University of Kerala, Tiruvalluvar University, University of Madras and University of Kerala. He has organized three refresher courses, coordinated 27 online courses, three training programs, and three conferences. He is the Principal

Investigator of two ongoing research projects and completed two MRPs, and three consultancy projects.

Dr. Swati Kothary

With over 20 years of experience, Swati has a strong understanding of Inclusive Planning, Urban Development, Public Policy, Regulatory Requirements and Management. Swati has experience in Strategy and Partnership Development, Research Operations and Core Management of Development projects both in Social and Environmental domain. She has the ability to identify and design projects/ proposals that lead to concrete research in Urban Development, Environment, Gender, Public Services/ Schemes at state and national level. She has worked on many high valued social and technical projects with various Indian states and Central Government as well as International organisations like The World Bank. Swati is a Graduate in Construction Technology and an Environmental Planner with keen interest in areas focusing on Urban and Industrial Infrastructure Planning, Environmental Law, Urban Governance and Management, and Sustainable Development. Her academic contribution includes teaching theory courses related to these areas and conducting studios focused on Urban and Regional Development. Excursions and practical exposure in related subjects and issues are an integral part of her teaching. She has guided Research Theses of students in B Arch and B Plan program covering areas of Environment, Urban Management, Energy, Information Technology, Waste Management, Water, Urban Development to name a few. She teaches in B Arch, B Plan, M Arch and M Tech programs. Swati comes with a long professional experience prior to joining academics in 2018. She has worked for regulatory authorities, international and national consulting firms and urban development institute. Her researches have contributed to formulation of policies and policy reforms by state governments at grass root levels. During her tenure with the Central and State Pollution Control Board in Gujarat, she worked extensively for future Environmental Management of the state through zoning regulation of industrial siting at regional and state level. Important Institutional Roles and IAPNU include: Academic Coordinator, PhD Program, Coordinator, Examination, Co-Coordinator, Centre for Continuing Education, Coordinator, IGLUS Centre of Excellence, Project Lead and Coordinator, ERASMUS funded URGENT Project.



Prof. Utpal Sharma

Prof. Utpal Sharma, Dean and Director at Institute of Architecture and Planning, Nirma University. He has 33 years of experience both as an Academician and Professional in the field of Architecture, Urban & Regional Planning and Urban Design. He studied Architecture from IIT Roorkee, Mumbai: Urban and Regional Planning from CEPT and further specialized in Minimum Cost Housing from McGill University, Canada. Prior to joining Nirma University in 2014, he was Dean at the Faculty of Planning in CEPT University and contributed immensely to develop the PG programmes. He was instrumental in setting up the CEPT Research and Consultancy Unit (CRDU) which brought prestigious assignments to the institute upgrading the pedagogy through student engagement in live projects. He was a Senior Associate with Vastu-Shilpa Foundation Ahmedabad, India. Prof. Sharma has worked extensively across the country and Asia on prestigious urban projects that involve preparation of Master Plans, Zonal Plans, formulation of Vision Statements, Housing Policy and Urban Design projects. He has received many prestigious awards including HUDCO Design Award and the Prime Minister's Award for Excellence in Urban Planning and Design. He has numerous lectures and papers to his credit presented across various reputed forums all over the world. Prof. Sharma holds membership of important professional bodies such as the Fellow Member of the Institute of Town planners, India and; Associate Member of Indian Institute of Architects and Council of Architecture. He has also served in the expert committees and advisory role to the Government and non-Government International bodies.



Prof. Vibha Gajjar

Vibha Gajjar is an Architect-Planner from IED, Vallabh Vidyanagar and pursuing her PhD in Urban Ecology. She gained professional experience for 10 years of practice before joining Academics. She is involved in full time Academics for the last 15 years and presently associated with the Architecture Department of Nirma University as Associate Professor and IQAC coordinator . She conducts courses like Architectural Design Studio, Research proposal, Development control regulation and Research thesis. The research interest



allows to guide students from a wide spectrum of architectural and planning background like vernacular architecture, re-generative approach to design solution, challenges of mass housing, ecosystem services, urban voids, etc.

She has published 2 books, 3 book chapters, 2 conference proceedings and 4 journal papers in the last five years. She has done peer review for the journal 'Building and Environment' as Elsevier reviewer and in other peer review journals. She is also Coordinator at ACPC (Admission commission for professional course) for Architecture entrance. Exam Coordinator at Gujarat University for B. Arch (All), Dec 2013, May 2014, Dec 2014, May 2015, Board of studies member at Gujarat University (2012 to 2015), Board of studies member at Nirma University (2013-14 & 2014-15, Member of Academic council at Nirma University



TECHNICAL SESSIONS DAY -1



DAY 1 – 16th December, 2022

Schedule

16th December	Schedule of events	Webex link
0830 - 0930 Hrs	Registration and BreakFast	
0930 - 0940 Hrs	Lighting of the Lamp	
0940 - 0945 Hrs	Saraswati Vandana by IAPNU students	
0945 - 0955 Hrs	Introduction of Urgent Project and Conference - Prof. Utpal Sharma	
0955 - 1000 Hrs	Natinal University of Mongolia	https://nirmau.webex.com/nirmau/j.php?MTID=m560fd4e3a16cfe661fd761d9243874a1
1000 - 1005 Hrs	Estonian University Of Life Science	
1005 - 1015 Hrs	Inaugral Address by Dr. Anup Singh, Director General, Nirma University	
1015 - 1055 Hrs	Keynote Address 1: Dr. D. S. Meshram, President, ITPI	
1100 - 1130 Hrs	Keynote Address 2: Dr. Hitesh Vaidya, Director, NIUA (Online)	
1130 - 1140 Hrs	Short Break	
1140 - 1340 Hrs	Technical Session 1 (Panel 1,2 Offline, Panel 3,4,5 Online)	
1340 - 1440 Hrs	Lunch	
1440 - 1500 Hrs	Presentation by Dr. N Ranganath on Importance of Topography in Urban Planning: A case study about Bangalore Floods	https://nirmau.webex.com/nirmau/j.php?MTID=m560fd4e3a16cfe661fd761d9243874a1
1500 - 1700 Hrs	Technical Session 2 (Panel 1,2 Offline, Panel 3,4,5 Online)	
1700 - 1715 Hrs	High Tea	
1715 Hrs onwards	Move to GIFT city for site visit & Gala dinner	

Technical Sessions

Panel 1

Session 1

Currently he is the lead Indian Principal Investigator and coordinator of a multi-institutional and multi-disciplinary Indo-Swiss research project on sustainable agriculture and microbial ecophysiology in collaboration with University of Basel, MS Swaminathan Research Foundation, International Crops Research Institute for the Semi-Arid Tropics (ICRISAT), Tamil Nadu Agricultural University.

Summary

The first panel chaired by Mr. Kalev Sepp and moderated by Mr. Mathimaran Natarajan and Ms. Forum Bhavsar, delved into discussions around a modified topic of conversation, "Future is Green Urban"

The panel Presenters included Ms. Smita S. Bidarkar, Mr. Joseph Thomas, Mr. Janmejoy Gupta, Mr. Akhlaq Wani, Mr. Riccardo Privitera.

The Presenters elaborated into a study that included a comparative analysis of traditional and modern housing space planning on unit, cluster and settlement level and the factor of space and voids in these scales.

This opened up avenues of discussions through presentations into urban agriculture and farming and its involvement in larger informal green areas in the city with emphasis on peri-urban areas. This furthered into the need for an integration of these 'green spaces' into the regulations of the cities that creates a continuum of rural and urban which has a larger impact on the land use patterns in the city. This, in turn creating a larger green landscape and safeguarding the vanishing greens and creating a low cost, low maintenance functional forest right at the core of cities. These interactions between urban settlements and agriculture were highlighted in the city of Srinagar, around Dal Lake, through an understanding of 'blue infrastructure' and green corridors.

The topics further delved into the integration of nature-based solutions in cities through planning wherein urban environment, context, social structures and legal

planning were discussed as factors that determine the viability of nature based solutions in cities except for the economic viability. Successful implementation of nature based solutions can be achieved by a balance between suitability, accessibility and viability.

Session 2

Summary

The Presenters for the evening session were: Mr. Kalev Sepp, Mr. Parth Jamadar, Mr. Hetansh Patel, Mr. Luca Barbarossa.

The evening session was an interesting combination of different aspects reflecting the complexity of urban design, chaired by Mr. Riccardo Privitera, moderated by Mr. Akhlaq Wani and Ms. Foram Bhavsar.

The discussions included the visible effects of climate change even in Northern Europe. The next Presenter talked about utilization of spaces around existing infrastructure such as flyovers and discussed about urban voids. This continued with a rather interesting turn with the next presentation about living heritage and specifically a case study of an individual step well in Ahmedabad, wherein the community around defined that as a public usable space.

The sessions for the day came to a close with the final introduction of a larger new concept of slow movement that delved into a discussion about how slow movement around the city could help incorporate green spaces and improve the overall urban fabric and how this kind of a treatment to the coastal edge would be beneficial.



Panel 2

Session 1

P1	Amrita	Sabhapandit	Nature based Solution for Urban Resilience of Developing Indian Cities - Wetland and Water Network Restoration as a Tool to Mitigate Urban Flood in Guwahati
P2	Ariunsanaa	Bat-Erdene	WATER QUALITY STUDY OF ARTIFICIAL LAKE FORMED AFTER GRAVEL MINING IN URBAN AREA (MONGOLIA)
P3	Ganchimeg	Bat-Erdene	Green Facilities of Khovd City
P4	Yash	Shah	Socio-Ecological Spaces: Interweaving Nature into the Urban

Summary

The panel had diversity of topics discussed in terms of its regional context as it started with discussion of methods to prevent flooding in the regions of assam, primarily guwahati.it was achieved through community participation and with the various methods of retaining the natural flow of drainage.(Amrita sabhapandit)

the second discussion majorly focused on the grave mining of man made lakes present all around Mongolia and attempted to preserve water and the water quality of these lakes throughout the seasons.(ariunsanna Bat-Erdene)

The follow up discussion was on the green cover of the khvod city ,Mongolia .detailed study to increase the per capita green of the city to the standard mark ie frm 2 metre square per person to 9 metre square per person.(Ganchimeg Bat-Erdene)

The last discussion of the session was on the natural lakes of ahmedabad and it's conversion into urban lakes by maintaining the balance of social intervention and conserving the natural ecosystem to its maximum potent.(Mehrnaz AmirSalani



Panel 3

Session 1

Summary

On 16th December, 2022, Session Panel 3 of URGENT ICFU 2023 welcomed the Session Chair 'Luca Barbarossa' and external moderator 'Siiri Kuelm' and internal moderator 'Prof. Vibha Gajjar'. There were 5 panel Presenters : Tanu Bhatt (Sustainable planning approach for a vibrant river zone in and around Kumbh Mela area : A case of Prayagraj); Shreya Agarwal (Identifying the shocks and stresses and proposing strategies for building a resilient future : A case of Dahej, Gujarat); Nirmoha Mandal, Chandrani Bandyopadhyaya (Planning for cities vulnerable to sea level rise : New Town Kolkata); Shynu Rv, Aneetha Suseelan (The smart green and blue urban environments influence on human psychophysiology : A systematic review on perception-based studies); Priyanka Agrawal, Antony Kumar Boity (Stubble burning in agricultural lands in Punjab a major contributing factor for poor air quality in Delhi; Challenges and Solutions for Sustainable Urban Spaces). The entire session revolved around identifying the issues which are generally ignored by the masses and aren't discussed on large platforms but are actually essential to take a step forward in terms of sustainable planning approaches and finding realistic solutions to counter climate changes in the world.

Session 2

Summary

On 16th December, 2022, Session Panel 3 of URGENT ICFU 2023 welcomed the Session Chair 'Prof. Daniele La Rose' and external moderator 'Arjan de Groot' and internal moderator 'Prof. Vibha Gajjar'. The panel consisted of 5 Presenters : Garima Toor, Dr. Tarush Chandra (Evaluation of ecosystem services at Keoladeo National Park, Bharatpur); Akshatha Narayan, Minakshi Jain (Impact of Urbanization on Land Use change of Peri-urban areas), Varsha Vinod, Ritu Agarwal, Mitali Madhusmita (Community participation as a step towards urban resilience); Dr. Chandrani Bandopadhyay, Building Urban Flood Resilience through Nature-based solutions in

Drainage Infrastructure : Case of Prayagraj, India), Zeenat Niazi, Fawzia Tarannum, Ranjana Ray Chaudhurai (Exploring methodological approaches to study reciprocal relationships between social and insitutional learning processes ans nature-based solutions in rapidly urbanizing context of India). The entire discussion revolved around providing solutions for sustainability by analysing the data of the current situation. Studying the climate change patterns, understanding the green corridors, the migration of the bird species, and evaluating the ecosystem gives everyone an idea of testing it for the urban context of India and see how the resilient structures are designed in case of risks and how the urbanization is growing.

Panel 4

Session 1

Summary

The series of presentations addressed a variety of research projects beginning with a study of the vernacular architecture of the Kangra Valley. Mr. Shiv Dayal elaborated on the vernacularised take on built form as a language of the local. The achievement of optimal climate conditions is a result of the material and construction technique, small openings, thatch and bamboo roofing, mud brick structure, for instance.

The second Presenter, Sejal Loya, put forth her assessment on the solar energy potential with respect to the climatic zones in the country. Data processing methods were explained through the production of global irradiance map, identification of solar energy amounts, and the overlap that is created with the respective climatic zones. The conclusion indicates the hot and dry region having maximum radiation.

Following this, we had with us, Ramthianghlimi Tlau. The Presenter developed her stance in the Peri urban fabric of Aizawl. With references to the vertical gardens in high rise buildings and neighborhoods of the west, she emphasized on the revitalisation of resources, followed by how types of urban agriculture can ascend from residential to community level farming. Government proposals on housing complexes for 2030 along with self developing communities can produce a sustainable model of development

Moving on to eco restoration of Magadhi bird sanctuary by Dr. Sushma M Betgeri, there was an in depth explanation on the factors impacting the ecosystem of the aforementioned premise. Gentle slope of the terrain, replenishment of lakes in the summer and main sources of rainfall were discussed. The resident and migratory birds resort to the farms in the vicinity when food lacks in the tanks, resulting in their intake of the pesticides used there. The lack of water is caused Mai my due to the blockage of the natural routes of due to construction processes. There is an urgent need of regular de-siltation of the wetlands along with introducing culverts, small islands and grazing pastures.

Going forward we had a presentation by Prof. Ashok Kumar which focused on the theoretical aspects of the procedural components of water sensitive planning theory for the cities. There is a need to provide equal importance to the land and water during the urban development of regions. While water security is the central goal of the planning approach, this can be done by just aiding the natural water cycle in terms of hydro-geological orientation of urban forms, roads, including permeable areas. Urban groundwater is a concern which has to be dealt with through these practices.

We then had Daniele La Rosa share his work on the metropolitan area about planning of the green infrastructure in the urban simulation. Combining natural areas and open spaces creates an interconnected network of ecosystems. The emphasis was given on the inclusion of landscapes which are existing ecologies of the region rather than creating newer additions. These benefit the microclimate, air temperature reduction and eases the energy consumptions of the area. The shading effect of trees found locally and selecting the varieties which has a larger umbrella to provide larger areas of shading. These are selected on the cost, ecological suitability. Moving forward simulating such green scenarios found a positive effect of the green infrastructure. Urban policies and financial mechanisms need to be set up to execute these methods.

Session 2

Panel 5

Session 1

Summary

The panel was chaired by Dr. Banzragch Dalai and moderated by Prof. Pooja Raval where various presenters talked about 'capacity building' through broad classifications or site analysis

- Debarun Sarkar conveyed about development of smart cities into green cities and their differences based on the case study of New Town of West Bengal where urban units were scaled in its own distinct manners. This new city resorted to the use of both green and smart technologies.
- Anika Kapoor and Mukesh Yadav stressed on the participation of society in decision making process which depends upon the size and purpose of participation. Identifying approaches and limitations and the use of effective tools were major factors to be considered for the process of local urban development.
- Shweta Saxena and Sandeep Arora approached to the concept of building capacity through the young designers and the role of design based studios which involved design synthesis and real world implementation.
- L.R.M.Nadeesh a LakshaniLankadhikara aimed at identifying key barriers of Sri-Lankan urban planners to create a liveable city which included socio-economic factors, infrastructure and environmental planning. The planners lacked in the knowledge of implementing urban knowledge on ground, technologies and tools used and database.
- Aditi Bisen classified the Urban good and Common Pool Resource principles: An analysis of Hauz Khas lake, Delhi. Any good would be considered a common resource if it is non-extradable and ravenous which is followed in the example of Hauz Khas lake where two interventions took place. The first intervention had limited involvement of people and aimed at channeling the treated wastewater, while the second intervention aimed at reusing existing construction debris to form modules and had active participation of users.

- Priyabrata Rautray, Avik Roy Sabyasachi Mohanty talked about Capacity Building of artisans village where main activity was agriculture and mining of metals like brass with major brass handicraft production all across the village which involved men, women and children the manufacturing process. Problems were faced like shortage of raw materials, heavier products, absence of technology and lack of skills which required development of various facilities like godowns or spaces to hold machineries and materials

Session 2

Summary

The panel was chaired by Dr. Mathimaran Natarajan and moderated by Prof. Pooja Raval and Ms. Baterdene Ganchimeg, where presenters talked about various aspects of 'capacity building' in different social, cultural and geographical contexts through the case studies.

Participants talked about their investigation of the administration, management and people's participation on the spatial impacts in urban development, where the framework for participatory development was analyzed to understand different stakeholders and their roles in the decision-making process. The historical city Pandharpur and the industrial cluster in Ludhiana were presented as case studies in the session.

The discussion was also about the social exclusion in the contemporary Indian City through the case of Bhopal. Presenters explained their study of the historical development of the settlements mainly done based on ethnic groups. The modern urban planning approach was discussed with reference to the ethnic groups, their settlements, living patterns etc.

The session also discussed resilience in development planning for disaster management. The presenters talked about the earthquake-prone city of Ahmedabad and its resilience through the structure of the old city of Ahmedabad. Similarly in another presentation, the discussion was about the resilient planning strategies and capacity building for Odisha's case through an Institutional framework.

The session ended with the concluding remarks of the chairperson for the adoption of appropriate tools and methods to analyze the data and suggest strategies for effective capacity building and people's participation in development planning.



TECHNICAL SESSIONS DAY-2



DAY 2 - 17th December, 2022

Schedule

17th December	Schedule of events	Webex link
0900 - 1000 Hrs	Breakfast	
1000 - 1100 Hrs	Keynote Address 3 :Kalev Sepp, Professor and Head of the Department of Environmental Protection and Landscape, Estonian University of Life Sciences	https://nirmau.webex.com/nirmau/j.php?MTID=ma20682d795d93698740a33cda241bedb
1100 - 1130 Hrs	Book Release: 'Gender and The Indian City'	
1130 - 1140 Hrs	Short Break	
1140 - 1340 Hrs	Technical Session 1 (Panel 1,2 Offline, Panel 3,4,5 Online)	
1340 - 1440 Hrs	Lunch	
1440 - 1640 Hrs	Technical Session 2 (Panel 1,2 Offline, Panel 3,4,5 Online)	
1640 - 1700 Hrs	Giving away certificates	
1700 - 1715 Hrs	High Tea	
1715 - 1815 Hrs	Concluding Session	https://nirmau.webex.com/nirmau/j.php?MTID=mae36b433411b489668ab50540974aaf5
1815 - 1830 Hrs	Vote of Thanks	

Technical Sessions

Panel 1

Session 1

Summary

With a strong start to the day with a book release of 'Gender and then Indian cities' edited by Prof. Madhvi Desai, the panel continued with the same energy and enthusiasm. The panel was chaired by Prof. B.K Joshi, and moderated by Mr. Arjan de Groot. The Presenters of this panel are: Ms. Jaishree Mishra, Ms. Anal Vaishnav and Mr. Jaydutt Vaishnav, Mr. Syed Wasim akhtar, Ms. Avani Gajjar, Ms. Shivani Parkhi and Prof. Tarush Chandra. The sessions started off with a presentation about heritage by-laws and its reflection in an urban settlements, with specific case studies that inferred how the framework and by-laws need to cater more towards intangible associations with the community around it and how a public-private partnership would benefit the urban settlements around it as well. This panel discussion continued with presentations around the need for urban forests and creating smaller bio-diverse pockets in the larger urban context to combat climate change overall. This discussion was complemented by further looking at management of industrial development in the town planning sector and an introduction of green-blue infrastructure in the road networks and electrification of urban logistics and freight transportation systems to combat the larger issues of heat islands and climate change. The panel largely looked at environmental issues and ecological impacts and the modifications necessary to save the environment around.

Session 2

Panel 2

Session 1

Summary

The second day saw a lot of distinguished panels from various experienced members.

Prof. Foram bhavsar elaborated on the urban form and energy consumption to achieve effective energy efficiency. she studied how energy consumption depends on various factors like building shape ,form and other parameters.

Prof. Shweta suhane stated the importance of urban forests and its lack in cities today and how we can gain benefits if right policies and regulations are implemented.

Prof. keyur sarda talked about various waste types generated during construction and how one can make use of these effectively in new structures.

Oyunchimeg namsrai talked about the problems faced in small countries in expanding their protected areas with respect to Mongolia and how they aim to increase it with the help of government.

Mansi Jani reflected on the pedestrian experience through a case study of law garden, ahmedabad on parameters of street setting and how certain elements enhance experience.

Urvish bhatt talked about how cities depend on and utilise geomorphology of regions for sustenance of basic urban processes.

Session 2

Summary

Siiri kulm talked about maintaining biodiversity in urban green spaces and how one can achieve that with respect to Estonia.

Prof parag Mistry talked about urban carrying capacity, which is the relationship between population and natural environment on which it depends for ongoing sustenance.

Utsavi shah spoke about urban sprawl, which is the fast and haphazard development beyond boundaries of urban planning.

Shekhar nagargoje spoke on how one can reap benefits by capturing value of real estate and use it in government development projects.

Prof jaydeep bhagat emphasized on the pedestrian accessibility to urban spaces with the context of vastrapur lake, ahmedabad.

Panel 3

Session 1

Summary

On 17th December, 2022, Session Panel 3 of URGENT ICFU 2023 welcomed the Session Chair 'Prof. J. K. Tripathi' and external moderator 'Dr. Shah Murtaza Mushtaq' and internal moderator 'Prof. Vibha Gajjar'. There were 6 panel Presenters : Dr. Sandeep Arora, Dr. Shweta Saxena (Building Bye-laws and Solar access : A study to identify limitations and opportunities); Arunima Badrimath, Sphurti Purohit, Hiranmayi Shankavaram (Exploring the role of public spaces in accommodating economic activities during Ashadh Wari in Pandharpur : Case of Chowk, Galli and Ghat); Harpreet Singh, Dr. Sandeep Dua (Livability of Cities); Arpita Srivastava, Dr. Ravish Kumar (Confluences of Urban Design principles for a commercial, futuristic street : A case study of a street in Patna); Ruchi Arora, Dr. Ravish Kumar (An exploration of how the climate influence landscape design : Case - Delhi); Sadaf Fayaz, Akhlaq Amin Wani, Prof. MA Islam, Dr. Aasif Ali Gattoo, Shah Murtaza Mushtaq (Land use characterisation of urban and peri-urban Srinagar using GIS based machine learning approach). The entire discussion revolved around the various aspects of urban studies which needed attention. The various papers covered the areas 'solar access and built forms in urban regions, the role of elements of a city and its livability'. The discussion also included how climates have influenced urban landscape designs and acknowledged machine learning approaches.

Session 2

Summary

On 17th December, 2022, Session Panel 3 of URGENT ICFU 2023 welcomed the Session Chair 'P. K. Joshi' and external moderator 'Dr. Gurjeet Kaur' and internal moderator 'Prof. Vibha Gajjar'. There were 5 panel Presenters : Priya Sasidharan (Reality of Reality - "E" Genus of Urban Future Era of Environmental Emergence); Akruti Murhekar, Apoorv Agrawal (Monitoring Assessment of Effects of Climate change on Permafrost Landscapes : A Case of Kinnaur, Himachal Pradesh); Sowmya Muralidhar, Marydas Mathew, Shwetha Purohit (Resilience of Water Bodies in a Metropolitan City - A case of Bangalore); Basira Mehraj, Akhlaq Wani, Amir Farooq, Prof. MA Islam, Dr. Asif Ali Gattoo, Dr. Shah Murtaza Mushtaq, Ishrat Salim (Site suitability analysis of White Willow in Kashmir Himalayan region using GIS based analytical hierarchical process); Ar. Gautami Bura, Dr. Parag Narkhede (Design principles of Green and Blue Infrastructure to improve Human health and Urban living : A Policy Framework). The entire discussion summarized the GIS based calculations, identified issues and proposed solutions for the White Willow in the Kashmir region as well as recreational spaces in the Pune City. The discussion included the balance of green and blue infrastructure for human health and also the climate change's impact on stormwater management.

Panel 4

Session 1 and 2

Summary

The first presenter of the panel, Kumkum Birla, initiated the day's discussion by throwing light on the role of integrated urban water management in water sensitive areas. Taking Ahmedabad as the case study, the author explained the hydrological imbalance due to surface run off patterns as a result of insufficient drainage systems, varying land use and built and open ratios. Various methods such as efficient fixtures, decentralized waste management, restoring natural water bodies etc were suggested so as to implement water sensitive planning on individual, neighborhood, zonal and city levels.

The next author, Mutum Sana put forth an in-depth study on planning for resilient transit-oriented development, with the city of Delhi as the area of study. Drawing comparison in carbon emission between developed and developing countries, she explains the need for planning resilient TOD and on issues governing catchment area efficiency on neighborhood level.

Our third Presenter, Asees Prab, presented her analysis and study on Urban interiority in everyday spaces. The author investigated the spatial practices in Chandigarh. The agenda addressed the visualization of open spaces as interior ones and how the urban room should be a part of a larger or smaller urban block followed by situational interiority which addresses the introduction of informal temporary markets and then pragmatic interiority wherein the need for interaction is talked about while planning to avoid exclusion. Conclusion was drawn with genitive interiority and how odors act as guides to sources.

The next author Avik Roy presented his analysis on degradation of Bhubhaneshwar arterial roads due to water stagnation . The city had natural drainage with no problem of drainage until the population density increased with decrease in quality of road and shrinkage of road width causing annual water drainage problems. The author suggested use of technology like use of apps for better mapping system which could prevent water stagnation on the major city roads.

Our fifth presenter, Neha kolhe, talked about child friendly environment in urban neighborhood. Taking Bhopal as their site, the author considered various parameters for the study such as quality of parks , presence of green corridors and material used.

The next Presenter , Partibha , presented her analysis on determining a framework to assess peri urban environmental vulnerability with respect to water resources and air quality in developing countries while matrix formulation for Bhubaneswar was discusses in process as a part of their study .

Our seventh Presenter Jayson had presented a review on concept of adaptability in architecture -pol houses of ahmedabad followed by a discussion on comparison of used spaces in pol houses.

The panel ended with our last Presenter,Sesi dhar ,who discussed about mobility and sustainable development goals, taking traffic scenario of vijayawada as their case study .

Panel 5

Session 1

Summary

The panel was chaired by Dr. Utpal Sharma and moderated by Prof. Pooja Raval and Dr. Henri Jarv. The session held discussions and presentations on various topics related to urban planning and development with consideration of the wide range of aspects such as integration of green and blue resources in urban planning, materials in urban spaces and their effects on people, vertical city concept, disaster management and land use assessments.

The study of urban material was presented and discussed with the identification of decision-making factors for selecting the material of urban spaces, such as health impact, climate response, comfort, availability, walkability, ease of movement and environmental impact.

There was a discussion about urban place-making by participatory approach by youth for improvement of social and physical development, where the requirement of urban place-making along with the study of stakeholders, current practices and outdoor features in urban public spaces.

The presenter talked about the issues of rapid urbanization such as traffic congestion, pollution, and infrastructure burden and also suggested some concepts as solutions such as vertical growth, net zero concepts, liveable environment, walkable neighborhood, etc. A detailed study about the benefits and limitations of vertical growth along with case studies was presented.

An interesting topic and analysis were presented for the case of the Nilgiris district in Tamilnadu, where the study was about the assessment of land use changes due to tea monoculture and its effects on environmental degradation. Participants presented the analysis of land use in the region through gis tools and a pattern of change was identified. In conclusion, strategies to preserve the land and break the loop of land-plant production degradation were discussed.

Session 2

Summary

The panel was chaired by Dr. Mathimaran Natarajan and moderated by Prof. Pooja Raval.

Sowmya Muralidhar, Shweta Purohit and Marydas Matthew aimed at understanding the physical fabric that defines the coexistence of the environmental system - built form, people and the ecosystems and at understanding the coexistence of human beings and the buzz of the new day traffic with close knit built forms which could be responded to by accommodating the growth of the built spaces to have the capacity of new changes and corresponding street planning.

Sandeep Kumar, Dr. Amit and Dr. Ekta talked about the extent of legibility of the built form in a city that can be well understood and comprehended by the study and analysis of the urban built form and its configurations in terms of placement and orientation of buildings, layouts of pathways and connections and interrelationship among the buildings and spaces.

Fathima Samana S talked about Kumbakonam: The city along its ritual landscape

Indraneel kumar talked about the industry clusters that have rural versus urban flavour whose rurality measurements were calculated including the log of population size, log of population density, network distance, and built-up (% urbanized) in addition to rural areas that added value to regional economic competitiveness because many industrial activities are concentrated in rural areas, a trait much visible in the U.S. Great Lakes Region.

Ramthianghlimi Tlau and Vineet Shrivastava's research aimed to provide a unique "sense of place" and identity for Aizawl by conserving and rehabilitate the cultural heritage, to implement recreational civic plaza and tourist destination using symbiotic concept, to implement urban green landscaping, to control pollution and to enhance the natural beauty of the cityscape and to incorporate smart city mission goals and policies.

KEYNOTE SPEECHES



Inauguration Ceremony

16th December

Keynote Speeches

Dr. Anup Singh

Dr. Anup Singh is an eminent academician and thought leader. He did his PhD from the University of Allahabad and Post-Doctoral Fellowship from the University of Michigan, Ann Arbor. He was a visiting scholar at the J.L. Kellogg Graduate School of Business Administration, Northwestern University, Evanston. He has held various top management/ administrative positions in Organisations of repute. He has many publications to his credit and is the recipient of various awards for his teaching and learning excellence.

He talked about Future and how it is Infinite. He started by talking about the Amritkal, which is the next 25 years and how the entire country is going to be transformed with development. Discussion of self sustainability and self sufficiency for the country with increasing urban population was done. Comparison with cities and countries across the globe was done to understand how they tackle this issues.

Prof. Utpal Sharma

Prof. Utpal Sharma, Director, Institute of Architecture and Planning, is a beloved teacher and mentor of the institute. He possesses over 30 years of experience in architecture, urban design, housing and planning and brings a unique blend of research and project experience to the classroom.

He talked about the URGENT Project and The URGENT International Conference on "Future is Urban". He started by talking about the previous conference ICFU '21 and about the launch of its proceedings during ICFU '22.

He talked about the publication process for both ICFU '21 and ICFU '22. The process for selection of abstracts for the conference was also described. The whole idea of future is urban was discussed and the word urban and urbanisation was compared globally and Nationally.

Dr. D S Mesharam

Our chief guest for today, Dr, D.S. Meshram is currently the Vice-President of Commonwealth Association of Planners since 2017. He was a member of various national and international Committees on Urban Development. He has handled number of Master Plans including Auroville Universal Township. He authored over 60 Research papers published in accredited Journals. He also co-authored the book titled as "Urban and Regional Planning Education: Learning for India". He was also responsible for preparation of Urban Development Plan Formulation and Implementation Guidelines, which were prepared at the behest of Ministry of Urban Development, Government of India. He has participated in various national and international conferences and seminars.

He Discussed on the national education policy and urbanization and its impact in the country, Government Schemes and Interventions, Infrastructure development, etc.

The gaps between preparation of the development plans and implementation of the plans on actual ground. Discussion on how different stakeholders make the process very chaotic and allocations are made difficult.

Second issue that was discussed was about the demand and supply patterns of urban planners in the country. The country suggests a large demand for urban planner and the supply is also sufficient, but still these numbers do not match.

Dr. Hitesh Vaidya

Dr. Hitesh Vaidya, Director, NIUA, has more than 20 years of broad-based urban development policy, project formulation, implementation and program management experience on mainly UN, World Bank, U.S. Agency for International Development (USAID) assignments. The areas he has been associated are urban development, urban governance and urban Infrastructure management. Poverty Alleviation has been an integral component in all the projects. Prior to joining as Director of National Institute of Urban Affairs, he was the Country Representative of UN-Habitat in India. He was part of team supporting in designing and rolling out national urban flagship missions (Smart Cities and Atal Mission for Urban Rejuvenation and Transformation) in India

He started his address by taking about Urban 20, which is an urban discourse meet happening under the G20 taking place in Ahmedabad. He compared the Delhi

development plans of 19611 and 2021. He focused on discussing the importance and roles of ITPI, NIUA in the present Indian context for Urban Planning,

Keynote Speech- Prof. Kalev Sepp 17th December

Prof. Kalev Sepp, professor and head of the department of environmental protection and landscape, Estonian University of Life Sciences.

He lectures on nature conservation, landscape ecology and analyzes environmental management. Kalev is the head of Ph.D. studies on environmental science and



applied biology and is the head of the Scientific Council of the Institute of Agricultural and Environmental Sciences. He was a Vice-President of the International Union for Nature Conservation (IUCN), an elected Councillor of IUCN (2004-2012), and a Horizon 2020 Programme Committee member for Environment, including climate change in Brussels. Kalev belongs to the Expert Commission of applied research projects at the Ministry of Rural Affairs, a member of the Scientific Council of the Estonian Ministry of the Environment.

Kalev Sepp started by taking about IUCN and NBS global Standards, he also talked about urban forestry, case studies from Estonia, and EU Nature Restoration Law.

He started by addressing the Importance of Nature based solutions and how NBS has significant potential to address our societal challenges. He talked about The International Union for Conservation of Nature (IUCN) and how it is an international organization working in the field of nature conservation and sustainable use of natural resources. IUCN Has developed Global standards on Nature based solutions, these standards are a facilitative measure for design, verification and scaling up of NBS.

Eight criteria are proposed in the IUCN Standards like: Societal Challenges, Design at Scale, Biodiversity net gain, Economic feasibility, Inclusive Governance, Balance trade-offs, Adaptive Management, Sustainability and Mainstreaming.

The lecture ended with him talking about the EU Nature Restoration Law: European Commission proposed a new nature restoration law with binding targets on pollinators, wetlands, rivers, forests, marine ecosystems, urban areas and peatlands. The new law aims to bring nature back across the continent for the benefit of biodiversity, climate and people. The overarching objective of the law is to achieve continuous, long term and sustained recovery of biodiverse land and sea areas and increase climate mitigation and adaptation through restoration. Nature-based solutions should be a cornerstone of these efforts going forward and IUCN is ready to provide expertise for all stakeholders with design and implementation of restoration projects.

He concluded the session by giving his view points through different cases across Europe. The session ended with an enriching question answer session between Dr. Kalev Sepp and other delegates of the conference.

Presentation by Dr. N Ranganath

17th December

Dr N. Ranganath is a qualified Civil Engineer with Master's Degree in Geotech and has a Doctorate from PDEU. He has a vast Managerial, Administrative, Technical & Financial experience of more than three decades in the field of Civil engineering infrastructure projects. He is presently Chairman & Managing Director of M/s. E I Technologies Pvt. Ltd., initiating and setting up an integrated Office infrastructure, with a skilled and blended experience of manpower and project management resources.



BOOK LAUNCHES

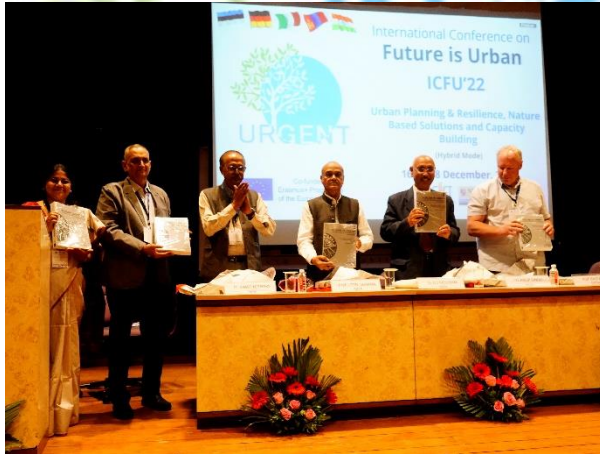


Book Launch- ICFU '21 Conference Proceedings

16th December

Institute of Architecture & Planning, Nirma University organized the first International Conference on 'Future is Urban':

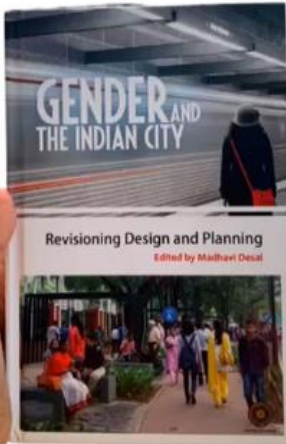
Liveability, Resilience & Resource conservation (ICFU'21) from December 16 to 18, 2021. This conference was enriched with the deliberations & august presence of leading Scholars, Academicians and Experts from across the globe in the field of Urban Planning, Urban Design & Architecture. 110 papers were presented in 27 thematic parallel sessions at ICFU '21. With internationally acclaimed Keynote Speakers and eminent experts from academia as session chairs all sessions saw large participation from students, academia and professionals. With the stringent double-blind peer review process in place, Conference Proceedings are being published by The Routledge Group.



Book Launch- Gender and the Indian City by Ar. Madhavi Desai

17th December

A book launch on Gender and the Indian City by Ar. Madhavi Desai. This book presents a multi disciplinary perspective of 19 research scholars, practitioners, and professionals. They bring together empirically grounded research and case studies exploring women's lived experiences in the context of design and urban planning, and how women can claim their legitimate space in the social construction of the city.



BOOK RELEASE

Gender and The Indian City; Revisioning Design and Planning

Published by South Asia Press

Edited by Madhavi Desai, the book presents a multi-disciplinary perspective of 19 research scholars, practitioners, and professionals. They bring together empirically grounded research and case studies exploring women's lived experiences in the context of design & urban planning, and how women can claim their legitimate space in the social construction of the city.

Book Introduction
Madhavi Desai (Editor)

Chapter Summary by Contributing Authors
Vanishree Herlekar and Bijal Bhatt

Chapter Summary by Contributing Authors
Anal and Jaydatt Vaishnav



CONCLUDING SESSION



Concluding Session 17th December

The concluding session for ICFU' 22 started with the distribution of the Certificates for all the conference delegates. Prof. Utpal Sharma gave away the certificates to all the conference participants.

The Session was Concluded by Prof. Swati Kothary by delivering a vote of thanks. Different Representatives from URGENT Partner Institution also addressed the conference delegates.

After the end of the conference, URGENT Partners, Nirma University Faculties and Nirma Student Volunteers went for a URGENT Partner Dinner at Rajpath Club, Ahmedabad.



STAKEHOLDER VISIT AT GIFT CITY



Stakeholder Visit to GIFT City, Gandhinagar 16th December

GIFT City is a planned business district in the state of Gujarat, India. It is the new business destination offering competitive edge to Financial services and Technology related activities.

GIFT City is an integrated development on 886 acres of land with 62 mn sq. ft. of Built Up area which includes Office spaces, Residential Apartments, Schools, Hospital, Hotels, Clubs, Retail and various Recreational facilities, which makes this City a truly “Walk to Work” City. GIFT City consist of a conducive Multi-Service SEZ (Special Economic Zone) and an exclusive Domestic Area.

This City is a Vertical City which will optimize land area consumption for development. The City is located on the bank of river Sabarmati connecting the Business capital (Ahmedabad) and Political capital (Gandhinagar) of Gujarat State- The Growth Engine of India.

The GIFT City stakeholder visit began with a tour of the GIFT City. The tour consisted of places such as District Cooling System, Utility Tunnel, ICT Hub, Data Centre, Sewage Treatment Plant, Tower 1 and 2, Streetscapes, etc. A Gala Dinner organised by GIFT City for all the Conference Delegates, URGENT Partners, Faculties, and Student



Volunteers followed the Stakeholder visit.



VISIT TO HERITAGE AND CONTEMPORARY BLUE AND GREEN INFRASTRUCTURES (BGIs)

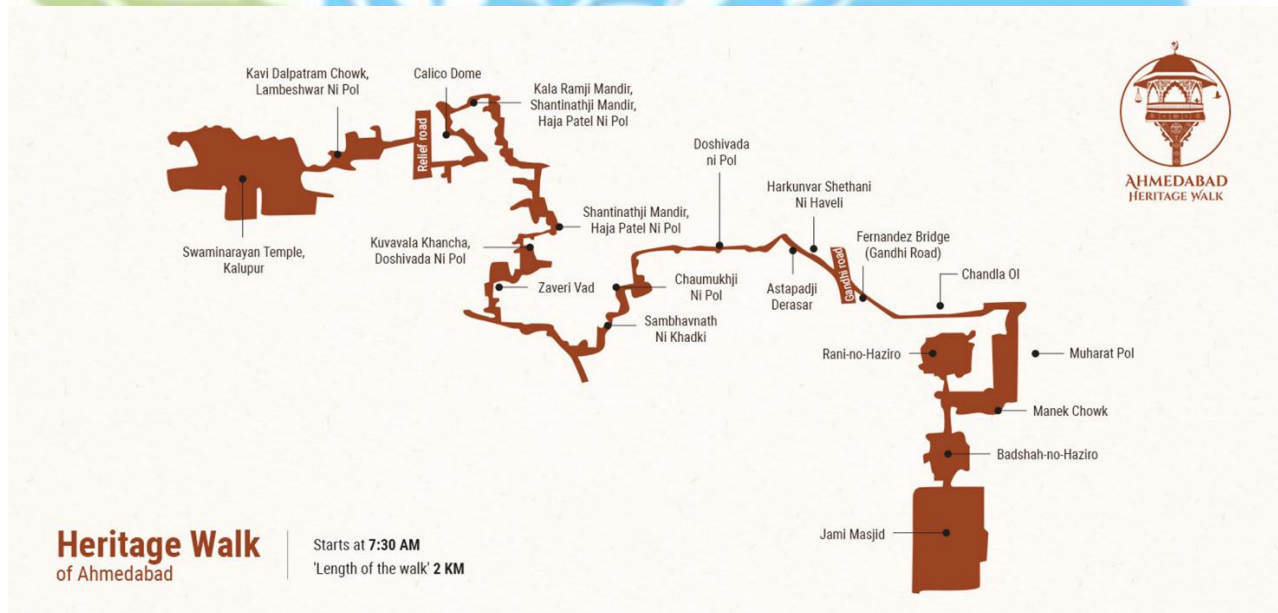


Visit to Heritage and Contemporary BGIs- 18th December

Old City Heritage Walk:

A special feature of Ahmedabad is the plan of the old city comprising numerous pols, self-contained neighborhoods, sheltering large numbers of peoples. Some of these virtually small villages, traversed by narrow streets, usually terminating in square with community wells and chabutaras for feeding birds, gates, Cul-de-sacs and secret passages. To experience the glory of Ahmedabad, it is necessary to walk through an old quarter and truly observe the nature of its architecture, its art, religious places, its culture and traditions.

With the purpose of unveiling the city to the tourists and the citizens themselves, Ahmedabad Municipal Corporation has arranged this HERITAGE WALK OF AHMEDABAD. **Route:** From Kalupur Swaminarayan Temple at 07:45 a.m. daily and terminates at Jumma Masjid at 10.30 a.m.



Adalaj Ni Vav

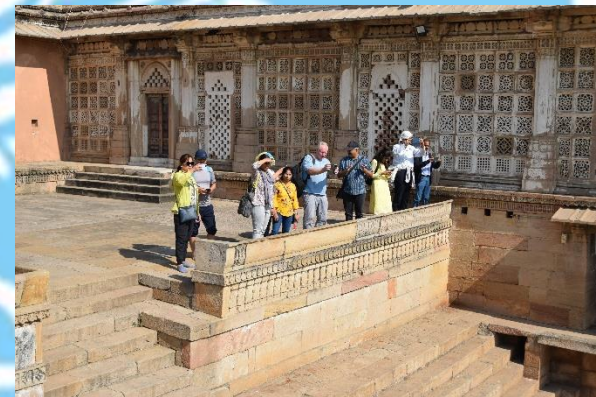
- Adalaj Stepwell or Rudabai Stepwell is a stepwell located in the small town of Adalaj, close to Gandhinagar city in the Indian state of Gujarat. It was built in 1498 in the memory of Rana Veer Singh (the Vaghela dynasty of Dandai Des) by his wife, Queen Rudadevi.
- Built-in sandstone in the Solanki architectural style, the Adalaj stepwell is five stories deep. It is octagonal in a plan at the top, built on an intricately carved large number of pillars. Each floor is spacious enough to provide for people to congregate.
- The motifs of flowers and graphics of architecture blend very well with the symbols of Hindu and Jain gods carved at various levels of the well. The dominant carvings on the upper floors are of elephants (3 inches (76 mm) in size, each of a different design). The Islamic architectural style could be attributed to the Muslim king Begda who built it.



Sabarmati Ashram

Sabarmati Ashram (also known as **Gandhi Ashram**) is located in the [Sabarmati](#) suburb of [Ahmedabad, Gujarat](#), adjoining the [Ashram Road](#), on the banks of the River Sabarmati, 4 miles (6.4 km) from the town hall. This was one of the many residences of [Mahatma Gandhi](#) who lived at Sabarmati (Gujarat) and [Sevagram \(Wardha, Maharashtra\)](#) when he was not travelling across India or in prison.^[1] He lived in Sabarmati or Wardha for a total of twelve years with his wife [Kasturba Gandhi](#) and followers, including [Vinoba Bhave](#). The [Bhagavad Gita](#) was recited here daily as part of the Ashram schedule.

It was from here that Gandhi led the Dandi march also known as the Salt [Satyagraha](#) on 12 March 1930. In recognition of the significant influence that this march had on the [Indian independence movement](#), the Indian government has established the ashram as a national monument.



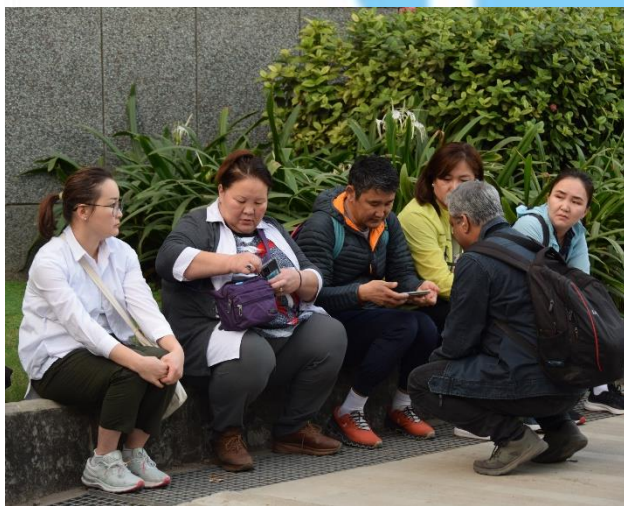


PARTICIPANT INTERACTION



Participant Interaction







ANNEXURES



ANNEXURE- 1

Travel Advisory

Meeting Venue:

C Block, Nirma University Campus, Sarkhej - Gandhinagar Hwy, Gota, Ahmedabad, Gujarat, 382481

Commutation:

For local travel in Ahmedabad, guests can download the OLA app/Uber app for radio taxis. The auto rickshaws are also easily available for all destinations within city. The revised fare is IN 18/- for first 1.25 kilometres (upon downing the meter) and thereafter IN 13/- per kilometre for every additional kilometre. While commuting to the venue, please mention - Nirma University, Sarkhej-Gandhinagar Highway.

Local Weather:

The temperature in Ahmedabad during the month of December usually varies from 18 to 31 degrees Celsius. Days are warm and dry, nights are cool. Windcheater jackets / winter outfits can be layered to keep yourself warm.

Currency

The official currency of India is Indian Rupee (Rs or IN). The exchange rate is approximately 1 USD = 82.5 INR. Please note that few restaurants do not accept credit cards so it is advised that you bring sufficient cash to cover any additional expenses.

Communication

Majority of the people can understand English. Hindi and Gujarati are widely spoken.

ENGLISH (official)	HINDI (national)	GUJARATI (regional)
Hello	Namaste	Namaste (નમસ્તે)
Yes	Haan	Ha (હા)

No	Nahi	Na (ના)
Good morning	Shubh Prabhaat	Suparbhata
Thank you	Dhanyavaad	Ābhāra
Welcome	Shukriya	
See you	Milte hain	
Today	Aaj	Aje (આજ)ને
Tomorrow	Kal	Avti Kale (આવતીકાલે)
Okay/good	Thik hai/acha hai	Barabar (બરાબર)
Stop	Ruko	Ubha raho (ઉભારો)
Water	Pani	Pani (પાણી)
How much does this cost	Ye kitne ka hai	Ani kimmat su che (આની કિંમત શું છે)
What happened	Kya hua	shu thayu

Places to Visit

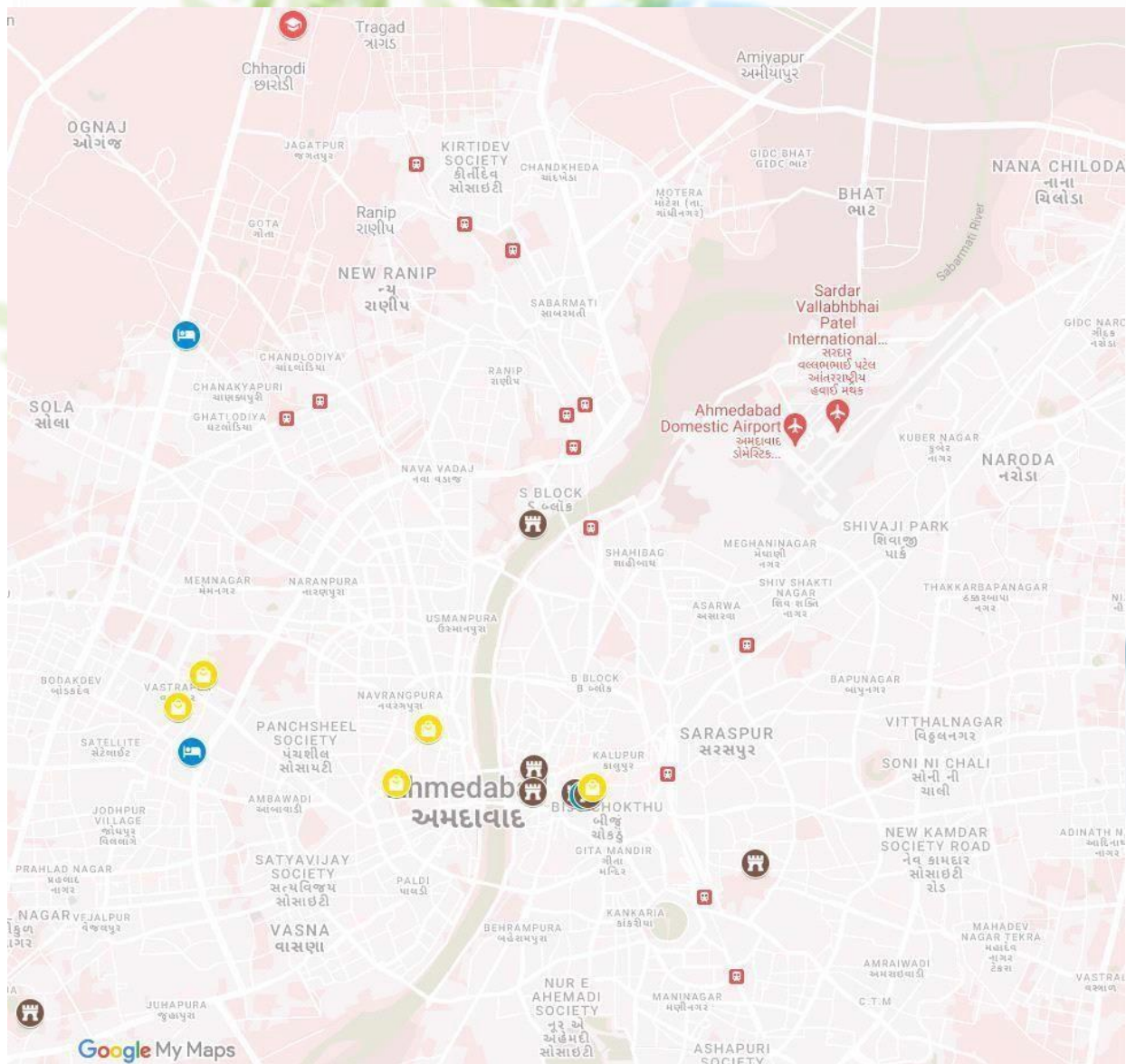
Sabarmati Ashram Museum
 Jama Masjid
 Jhulta Minar
 Rani No Hajiro
 Bhadra Fort
 Sarkhej Roza
 Pols of Ahmedabad
 Sanskar Kendra
 Sabarmati Riverfront
 Kankaria Lake
 The Adalaj Stepwell
 Science City, Ahmedabad

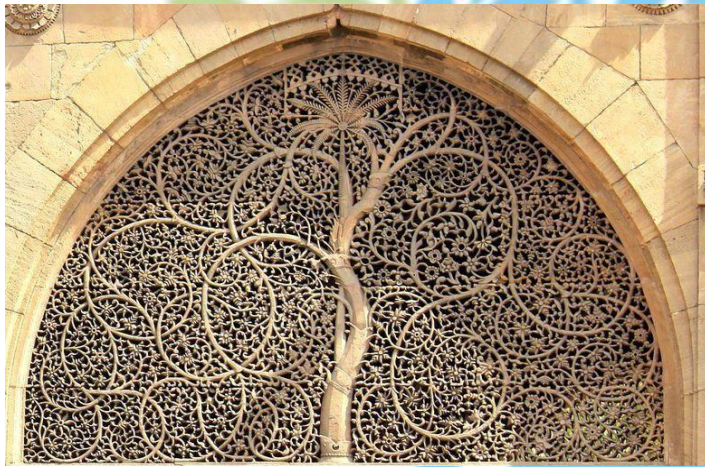
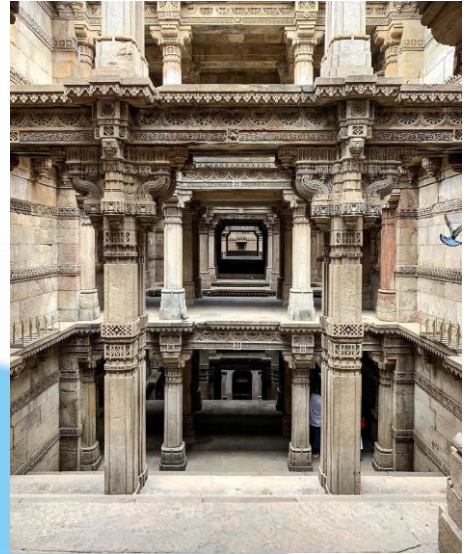


Places for Shopping and Food in Ahmedabad

Rani No Hajiro Ahmedabad Cloth Market

Bandhej
 Lal Darwaza Market
 Sindhi Market
 Mangalya Bandhani Sarees
 Dhalgarwad Market
 Deepkala Silk Heritage
 Raipur Gate Market
 Asopalav Ratanpole
 Kapasi Handicrafts Emporium
 Manek Chowk
 Fernandes Bridge Book Market
 Law Garden Market
 CG Road Malls
 Falguni Gruh Udyog
 Ahmedabad One Mall





ANNEXURE- 2

IAPNU TEAM

Faculties

Task	Faculty Assigned
Logistics	Foram Bhavsar Parag Mistry
Food	Leena Nair Shweta Suhane
Technical Abstracts	Foram Bhavsar Pooja Raval Prachi Patel Swati Kothary Utsavi Shah Vibha Gajjar
IT Support	Himani Patel Nishant Kansagra Bishwanath
Social Media + Printing	Sneha Ramani Harjeet
Abstract Printing	Pooja Raval Utsavi Shah
Conference Welcome Kit	Foram Bhavsar Vibha Gajjar
Photography	Shweta Suhane
Exhibition @ C Block	Jaydeep Bhagar
Building Cleanliness	Bhadresh Bhatt Krishna Yadav
Registration/ Help Desk	Harjeet
Decoration	Jaishree Mishra Krishna Yadav
Heritage Walk	Jitendra Menghani
Accounts	Pooja Raval
Sponsorship	Shweta Suhane
Abstract Updates	Utsavi Shah
Publisher	Shweta Suhane

Students

Teams	Student Volunteers
Technical Committee/Writing during sessions	Afifah
	Myanvay
	Pushti
	Zankhana
	Preeti
	Neel
	Niyati
	Anushri
	Jvalant
	Unnati
IT Support	Faiz
	Rudraksh
	Hemang
Logistics	Tirth shah
	Shishir
	Raji
	Rishabh
	Dev
	Anuj
Food	Shaival
	Radhika A.
Social Media	Pantheri
	Shalvi
	Raji
	Diya
Preperation of the Kit / Registration desk	Jeel
	Askhay
	Ina

	Rashie
	Preeti
	Ashish
Photography	Rutvik
	Khushi Nada
	Meet Kotecha
Exhibition	Ishika
	Anushri
	Karan B.
	Faiz
Installation (Reuse Navratri)	Suruchi
	Jainil Prajapati
Heritage Walk	Yutika
	Raji
	Rishabh
Conducting the Inaugral session	Yashvi
	Pushti
Saraswati Vandana	Shrushti
Back Stage	Rudraksh
Certificate	Sujal Oza

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