



॥ तमसो मा ज्योतिर्गमय ॥

VISION

To provide equal opportunities for value based global education for creating an Enlightened Society

MISSION

To establish and facilitate educational institutions in the region for providing affordable value based global education to all who aspire to study and to create opportunities to educators, social workers and philanthropists to serve society



**SARVAJANIK
UNIVERSITY**

INCLUSIVE | INTEGRATED | INNOVATIVE

creating an enlightened society...

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Constituent Institute:

AAERT & The SSB Faculty of Architecture

MITRAJ SARVAJANIK

INSTITUTE OF DESIGN, PLANNING & TECHNOLOGY

CURRICULUM FOR

MASTER OF ARCHITECTURE

(URBAN DESIGN)

M.ARCH. (UD)

(Version 2.0)

(ANNEXURE III-d)

© MS-IDPT, Sarvajani University, Surat- April 2026 (in progression to Syllabus submitted in Sep 2025)

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Academic Curriculum Committee: Prof. Persi Engineer (Dean), Prof. Rikta Desai (Pro-Dean), Prof. Vishal Shah (Chairman of ACC- Architecture), Prof. Mahesh Nagecha, Prof. Bhavna Vimawala, Prof. Alpa Pandya, Prof. Hardik Gandhi

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Modified and approved in April 2026, applicable to all the batches admitted from AY 2025 onwards.

SARVAJANIK UNIVERSITY
Faculty of Architecture, Design, Planning
and Technology
Master of Architecture (Urban Design)

Program Curriculum

Master of Architecture (Urban Design)

The Program Curriculum proposed and drafted by **Academic and Curriculum Committee of Architecture** under the Faculty of Architecture, Design, Planning and Technology in the meeting held on **09/04/2026** and recommended to '**BOARD OF STUDIES**' for approval.

Prof. Vishal Shah

Chairman,

Academic & Curriculum
Committee Architecture

Place of the meeting
Sarvajani University



Sign

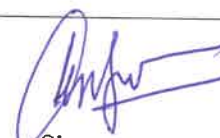
The Proposed Program Curriculum was approved by **Board of Studies** under the Faculty of Architecture, Design, Planning and Technology in the meeting held on **15/04/2026** and was recommended to the '**FACULTY**' for approval.

Prof. Persi Engineer

Chairman - BOS

Architecture, Design, Planning
& Technology

Place of the meeting
Sarvajani University



Sign

The Program Curriculum approved by the **Faculty of Architecture, Design, Planning & Technology** in the meeting held on **15/04/2026** and was recommended to '**ACADEMIC COUNCIL**' for approval

Prof. Persi Engineer

Chairman & Dean

Faculty of Architecture,
Design, Planning &
Technology

Place of the meeting
Sarvajani University



Sign

The Program Curriculum approved by the '**Academic Council of Sarvajani University**' in the meeting held on **23/04/2026**.

Mr. Ashish Desai

Member-Secretary,

Academic Council

& Registrar,

Sarvajani University

Place of the meeting
Sarvajani University



Sign

The approved curriculum is with effect from the Academic year 2026-27, applicable to all the batches admitted from AY 2025 onwards, w.e.f AY2025-26.

Modified and approved in April 2026, applicable to all the batches admitted from AY 2025 onwards.

MASTER OF ARCHITECTURE (URBAN DESIGN)

**AAERT & The SSB Faculty of Architecture
MITRAJ SARVAJANIK INSTITUTE OF DESIGN,
PLANNING & TECHNOLOGY
(MS-IDPT)**

**FACULTY OF ARCHITECTURE, DESIGN,
PLANNING & TECHNOLOGY (FADPT)**

**SARVAJANIK UNIVERSITY
SURAT, GUJARAT, INDIA**

VERSION 2.0

W.E.F. ACADEMIC YEAR 2025-2026

Applicable to all Batches admitted from June-July 2025

Proposed and discussed in ACC Meeting held on 09/04/2026

Approved in BOS meeting dated 15/04/2026

Approved in Faculty of Architecture, Design, Planning and Technology dated 15/04/2026

Modified and approved in April 2026, applicable to all the batches admitted from AY 2025 onwards.

PRELUDE

The Sarvajani Education Society has had a presence since 1912 in the South Gujarat region. The establishment of Sarvajani University in 2021, under the stewardship of the Sarvajani Education Society, marked a new era in higher education, advancing the mission to provide quality education that aligns with contemporary needs and meets global standards.

With the formation of Sarvajani University under the aegis of Sarvajani Education Society, a major impact is expected on the educational scenario in South Gujarat region where the Sarvajani Education society has a presence for more than 113 years. Faculty of Architecture, SCET was instituted in 1995 and was the first self-financed educational institute in the state of Gujarat and since then it has made its mark at national and international level by proving itself as one of the premier institution imparting a holistic education for aspiring architects. With 22 batches already graduated from FoA. SCET, the alumni have made their remarkable presence felt at national and international level in practice as well as academics. A high percentage of students opting for post graduate education has been one of the characteristics of the hunger for learning that the FoA, SCET creates in the students.

At the onset when the institute under the new name of Faculty of Architecture, Mitraj Saravajnik Institute of Design Planning & Technology (MS-IDPT) will have full freedom to formulate and execute its progressive and liberal syllabus, it becomes all the more important to come up with syllabus that is meaningful and deliverable that are relevant for the postgraduate programme in Urban Design. With a strong faculty strength and a rich mix of experience and expertise, Today, MS-IDPT comprises four vibrant schools: the Faculty of Architecture, the Sarvajani Colourtex School of Interior Design, the Sarvajani School of Fine Arts, and the Faculty of Planning. MS-IDPT is all set to start the voyage for the new era that it is entering by becoming a constituent of the Sarvajani University.

The M. Arch. (Urban Design) program intends to engage in a multi-disciplinary approach and become more effective in forming the vision for a holistic development. The program focuses especially on the Indian scenario and the transformation that Indian urban areas are undergoing. Urban Design is the Emerging Design field in Indian Context with direct application to projects like New Town / Area Development, Waterfront developments, Open & Public space development, Urban Renewal projects, Various projects in Smart City development, Urban Conservation, urban mobility and a wide range of public projects.

The Urban Design course will address two major issues of relevance and adaptability in its course structure to ensure effectiveness and absorption of graduates into decision making positions in practice and academics. The graduates will be trained to contribute to the development in India at the same time envisaging to address key global issues such as climate change, environmental sustainability, social cities, digital design and its application that are the need of the hour and have a widespread application. The course also wants to become the epicenter for documentation and research on Urban Design to generate and augment vital data, especially of the rich Indian urban history and cities of India and the learning from the same is intended to be applied to real life situations and further research.

Guidelines given by Council of Architecture and AICTE have been followed to form the broader framework of the syllabus. The distribution of courses ensures progressive development of student potential. Humanities, Liberal studies and life skills, a plethora of professional and open electives promote trans-disciplinary learning. In view of the Urban Development scenario in India, the Inputs from The Orienting Planning Education in Line with NEP 2020 guidelines circulated by Institute of Town Planners,

India (JTP1) - November 2024 are also studied carefully and necessary aspects are incorporated in the syllabus.

An integrated approach synonymous with trans-disciplinary understanding is crucial to encourage critical thinking, to build linkages between diverse academic inputs and practices. Students will utilize varied and contradictory perspectives to understand current problems and positions contextually and seek Integrated solutions to build a happy society, intrinsic to the stated Vision. Various professional ability and skill enhancement subjects are ensured to build a balanced syllabus.

Innovation is valued as a catalyst to growth. Through innovative approaches to pedagogy, the transaction of curriculum will be based on the principle of joyful learning thereby achieving better learning outcomes. The aim of the program is to develop metacognitive skills, manage learning strategies and direct the learning processes towards meaningful design solutions.

VISION:

To strive towards creating responsive Built Environment and self-sustainable communities through 'Design Education' for creating a progressive and happy society.

MISSION:

To excel with passion in Teaching-Learning, Research and Consultancy for shaping innovative and ethical design professionals competent to negotiate and mitigate social complexities, environmental challenges and global concerns.

GRADUATE ATTRIBUTES:

1. Socially responsible and environmentally conscientious.
2. Individuals with critical thinking ability and a passion to innovate.
3. To assume a decision making role in the work sphere and be the agent of change.
4. Adaptable individuals with ability to update and relearn in a fast changing world.
5. Able to identify and ameliorate social and humanistic concerns through design solutions.

CORE VALUES:

Institution Level	Individual Level
Equality	Passion to Excel
Affordable Education	Adaptability
Learner Centric Approach	Compassion for All
Nurturing creativity & Sensitivity	Integrity
Holistic Development	Team Work
Freedom & Discovery	Social Responsiveness
Interdisciplinary Collaboration	Accountability
Sustainability	Tech savvy

PROGRAMME OUTCOME (PO):

As per the guidelines of Model Curriculum for M.Arch (Urban Design) by COA the following aspects need to be addressed:

1. The aim of the program (e.g., to train architects in spatial and socio-economic complexities of urban environments).
2. General skills and competencies expected:
3. Urban design theory and practice.
4. Contextual and cultural sensitivity.
5. Urban form analysis and public realm design.
6. Use of digital tools and communication techniques.
7. Policy and governance understanding.

Based on the above guidelines, Following Program Outcomes (PO) will govern the syllabus of M.Arch. (Urban Design)

1. **Advanced Knowledge:** In-depth knowledge in Urban Design and its application.
2. **Problem Analysis:** Ability to analyze complex urban issues.
3. **Design & Development:** Skills in designing appropriate solutions.
4. **Research Aptitude:** Capacity to undertake research and interpret data.
5. **Modern Tool Usage:** Use of geospatial, statistical, and urban development software.
6. **Collaborative Work:** Effective functioning in multidisciplinary teams.
7. **Project Management:** Understanding of project and financial management.
8. **Ethics & Responsibility:** Professional ethics and societal responsibility.
9. **Communication:** Effective communication of complex planning concepts.
10. **Life-long Learning:** Recognition of the need for continuous professional development.
11. **Environmental & Sustainability Concerns.**
12. **Policy and Urban Development Practice Awareness.**

PROGRAMME SPECIFIC OUTCOME (PSO):

1. **Designing Inclusive and Responsive Public Spaces**
Exhibit the ability to design vibrant, accessible, and inclusive public spaces that foster social interaction, cultural identity, and civic engagement in urban environments.
2. **Revitalization and Adaptive Reuse of Urban Areas**
Develop design strategies for regenerating deteriorated or underutilized urban districts through adaptive reuse, context-sensitive interventions, and urban revitalization practices.
3. **Urban Heritage, Environment, and Built Form Regulation**
Integrate heritage conservation, environmental design, and regulatory frameworks to shape and preserve the character and sustainability of urban form and public realm.
4. **Urban Studies, Research, and Advocacy**
Conduct critical urban research and spatial analyses that inform design processes, while advocating for social justice, equity, and participatory urban transformations.
5. **Design Leadership in Complex Urban Contexts**
Lead interdisciplinary design efforts addressing complex urban issues through innovation, community engagement, and the application of digital tools and scenario-based urban simulations.

GROUP OF SUBJECTS

1) Major Courses

Major Courses form the core foundation of the academic curriculum. These are discipline-specific subjects that equip students with critical knowledge, analytical tools, and technical competencies essential for urban and regional planning. The courses emphasize a multi-scalar understanding of spatial planning, enabling students to design, evaluate, and implement comprehensive development plans.

2) Minor Courses

Minor Courses are designed to complement the major curriculum by allowing students to explore allied domains within or beyond the core discipline. These courses provide academic flexibility and interdisciplinary breadth, enabling students to tailor their learning trajectory with subjects such as Urban History, Infrastructure Planning, Housing, Urban Ecology.

3) Interdisciplinary/Multidisciplinary Courses

These courses are curated in accordance with the institutional academic policy, and may include modules offered through recognized platforms such as MOOCs (Massive Open Online Courses), NPTEL (National Programme on Technology Enhanced Learning), or other collaborative educational initiatives. The objective is to foster integrative thinking by encouraging students to engage with subjects across multiple domains such as economics, sociology, environmental science, data analytics, public health, or law. This exposure enhances their ability to address complex, real-world planning challenges through holistic and innovative approaches.

4) Ability Enhancement Courses

Ability Enhancement Courses are designed to improve students' general academic and professional capabilities. These electives allow students to specialize and deepen their expertise in niche areas. The Ability Enhancement Courses serve as professional learning opportunities that broaden students' perspectives and enhance their employability.

5) Skill Enhancement Courses

Skill Enhancement Courses are practice-oriented modules intended to bridge the gap between theoretical learning and professional application. Students develop essential competencies such as stakeholder engagement, data analysis, design thinking, field research, policy formulation, and project planning and management. These immersive experiences cultivate industry readiness and prepare students for the multifaceted realities of professional planning practice.

6) Value-Added & Elective Courses

Urban planning is inherently collaborative, requiring interaction with multiple disciplines. The Value-Added Courses serve as transdisciplinary learning opportunities that broaden students' perspectives and enhance their employability. Transdisciplinary Open Electives are offered in collaboration with other departments or institutions.

7) Summer Internship

Under this category the student will get exposure to actual work situations. At the end of 4th Semester the student is required to undergo a 8 week training under any government body, NGO, Urban Planning & Design Firm, MNC engaged in Urban Development & Policy making, etc. This mandatory summer internship will further encourage the students to pursue their interests and help them in their placement along with career opportunities.

8) Research Project / Dissertation

Thesis at the 4th semester allows students to pursue a Research Project as a part of the final dissertation, the necessary skills are already taught to the students in the previous semester.

**CREDIT
DISTRIBUTION**

Group of Subjects	%	Absolute Credits
Major Courses	61 %	55
Minor Courses	13 %	12
Interdisciplinary/Multidisciplinary Courses	4 %	4
Skill Enhancement Courses	6 %	5
Ability Enhancement Courses	8 %	6
Value-Added & Elective Courses	4 %	4
Summer Training	4 %	4
Total Credits	100 %	90

EXAMINATION SCHEME

M. ARCH. (UD) - I (SEM I)

Sr. No.	Course Code	Nature of Course	Course Name	Credits	Teaching Scheme			Examination Scheme		
					L (Hrs)	S (Hrs)	Total	CCE	SEE	Grand Total
	1	2	3	4	5	6	7	8	9	10
1	MFDE11101	Major	Urban Foundation Studio	8	0	8	8	50/100	50/100	200
2	MFGN11101	Major	Urban Planning Processes & Techniques	3	2	1	3	19/37	19/38	75
3	MFGN12102	Minor	Urban History & Theory	2	1	1	2	13/25	13/25	50
4	MFGN12103	Minor	Infrastructure Planning	2	1	1	2	13/25	13/25	50
5	MFGN12104	Minor	Housing Planning & Management	2	1	1	2	13/25	13/25	50
6	MFGN12105	Minor	Urban Ecology	2	1	1	2	13/25	13/25	50
7	MFGN15106	Skill Enhancement	Urban Cartography & GIS	3	2	1	3	19/37	19/38	75
				22	8	14	22			550

M. ARCH. (UD) - I (SEM II)

Sr. No.	Course Code	Nature of Course	Course Name	Credits	Teaching Scheme			Examination Scheme		
					L (Hrs)	S (Hrs)	Total	CCE	SEE	Grand Total
	1	2	3	4	5	6	7	8	9	10
1	MRUD21201	Major	Inclusive & Sustainable Urban Design Studio	8	0	8	8	50/100	50/100	200
2	MRUD21202	Major	Urban Landscape	3	2	1	3	19/37	19/38	75
3	MFGN11201	Major	Planning Legislation and Urban Governance	3	2	1	3	19/37	19/38	75
4	MFGN12202	Minor	Transportation Planning & Urban Mobility	2	1	1	2	13/25	13/25	50
5	MFGN13203	Interdisciplinary / Multidisciplinary	Urban Sociology	2	2	0	2	13/25	13/25	50
6	MFGN13204	Interdisciplinary / Multidisciplinary	Urban Economics	2	2	0	2	13/25	13/25	50
7	MFEL14201	Ability Enhancement	Professional Elective-I	2	2	0	2	13/25	13/25	50
				22	11	11	22			550

CCE: Continuous & Comprehensive Evaluation (Formative)
SEE: Semester End Evaluation (Summative)

M. ARCH. (UD) - II (SEM III)

Sr. No.	Course Code	Nature of Course	Course Name	Credits	Teaching Scheme			Examination Scheme		
					L (Hrs)	S (Hrs)	Total	CCE	SEE	Grand Total
	1	2	3	4	5	6	7	8	9	10
1	MRUD21301	Major	Urban Transformation Studio	8	0	8	8	50/100	50/100	200
2	MRUD21302	Major	Urban Conservation	3	2	1	3	19/37	19/38	75
3	MFGN11301	Major	Project Planning & Development Finance	3	2	1	3	19/37	19/38	75
4	MRUD22303	Minor	Space Culture & Urban Design	2	1	1	2	13/25	13/25	50
5	MFGN15302	Skill Enhancement	Research Methodology	2	1	1	2	13/25	13/25	50
6	MFEL14301	Ability Enhancement	Professional Elective-2	2	2	0	2	13/25	13/25	50
7	MFEL16302	Value Added Elective	Transdisciplinary Elective-1	2	2	0	2	13/25	13/25	50
				22	10	12	22			550

M. ARCH. (UD) - II (SEM IV)

Sr. No.	Course Code	Nature of Course	Course Name	Credits	Teaching Scheme			Examination Scheme		
					L (Hrs)	S (Hrs)	Total	CCE	SEE	Grand Total
	1	2	3	4	5	6	7	8	9	10
1	MRUD21401	Major	Thesis	13	0	13	13	82/163	81/162	325
2	MRUD21402	Major	Urban Design Practice	3	2	1	3	19/37	19/38	75
3	MFEL14401	Ability Enhancement	Professional Elective-3	2	2	0	2	13/25	13/25	50
4	MFEL16402	Value Added Elective	Transdisciplinary Elective-2	2	2	0	2	13/25	13/25	50
5	MFGN17401	Summer Training	Professional Training	4	-	-	-	-	50/100	100
				24	6	14	20			600

CCE: Continuous & Comprehensive Evaluation (Formative)
SEE: Semester End Evaluation (Summative)

General Notes:

L= Lecture, S= Studio

1. Minimum passing marks are **50% for Column no. 8 & 9** (The calculated marks will be rounded off to the nearest whole number to avoid "E & O" due to decimal values (e.g., 12.5 → 13))
2. Students are supposed to **select any one subject** from the list of Electives of each group (Professional & Transdisciplinary Open), these Electives will be offered based on the availability of experts and required no. of students. Students are encouraged to seek wider exposure from MOOC, Online Courses, Workshops, etc. for electives.
3. If a student is not able to earn the credits of the course in regular examination, the same will have to be earned through interim or backlog examination offered in the same/next semester respectively.
4. Institute shall offer a group of Electives (Professional-AEC & Transdisciplinary Open-SEC), based on the availability of experts and other relevant parameters, and may change the courses offered from time to time. Students are supposed to select any one course from each group from the list of Electives offered.
5. Students taking the exit option after FIRST year shall have to complete at least one summer internship respectively to get the relevant qualification of that level. All the courses are auditable courses for calculation of **SPI/CPI**.
6. Theory Exam or Jury/viva on practical skills learned in course, In case theory exams the question paper of minimum **50 marks (2hrs)** will be drawn for evaluation.

Year: M.Arch. (UD) I (Semester I)

MITRAJ SARVAJANIK INSTITUTE OF DESIGN, PLANNING & TECHNOLOGY						
Faculty		FADPT		Programme	M.Arch. (UD)	
Year		I		Version	1.0	
Semester		I		Effective From	June 2025	
Course Code		MFDE11101		Course Name	Urban Foundation Studio	
Course Type		Major			-	
Teaching Scheme				Examination Scheme		
Credits	L	S	Total	CCE	SEE	Total
8	0	8	8	50/100	50/100	200

CCE: Continuous and Comprehensive Evaluation including 20% of Attendance, 80 % of Sincerity in attending classes/class tests/ timely submissions of assignments/self-learning attitude/solving advanced problems/periodic assessment conducted by institute.

SEE: Sem End Evaluation: Theory Exam or Jury/viva on practical skills learned in course, In case of theory exams the question paper of minimum 50 marks (2hrs) will be drawn for evaluation.

Prerequisite (if any): - NA

List of Courses where this course will be prerequisite: -

For M.Plan (Urban and Regional Planning), this course serves as a prerequisite for core studios like Land Use Planning, Local Area Planning, and thematic courses such as Transport, Housing, and Infrastructure Planning.

For M.Arch (Urban Design), it builds the groundwork for Urban Design Studios, Public Space Design, Site Planning, and advanced courses on Urban Morphology and Place-Making. In both, it ensures students enter design or planning projects with aligned spatial thinking, analytical skills, and interdisciplinary foundations.

Rationale: - This foundation course equips students with essential skills in spatial analysis, urban systems understanding, and interdisciplinary thinking necessary for advanced planning and design studios. It bridges diverse academic backgrounds, ensuring all students gain a common grounding in data interpretation, mapping, and conceptualization techniques. By fostering critical inquiry and practical exposure early on, it prepares students to confidently engage with complex urban challenges in subsequent coursework.

Content:

Sr. No.	Description	No. of Hours
Unit 1	Introduction and Learning Basics • Introduction to urbanization, evolution of cities, and spatial organization. • Key concepts in urban development planning and urban design — scales, systems, and typologies. • Understanding city structures: built form, public spaces, and infrastructure. • Book/film review: exploring foundational urban thinkers (e.g., Jane Jacobs, Kevin Lynch, Patrick Geddes). • Creative brainstorming: “My City, My Lens” – decode cities through spatial narratives.	48



SARVAJANIK UNIVERSITY
Faculty of Architecture, Design, Planning
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Master of Architecture (Urban Design)



Unit 2	Data Collection and Development of Understanding of Cities - Urban land use and zoning: typologies, hierarchy, and spatial patterns. - Infrastructure mapping: water, sanitation, energy, waste, and open spaces. - Demographic profiling: population growth, migration, income, and literacy. - Urban sociology and environment: understanding communities, culture, vulnerability, and sustainability. - Field-based surveys and literature review on urban themes (e.g., mobility, informal	32
Unit 3	Synthesis, Analysis, Mapping and Representation - Techniques of analysis: land use efficiency, density, connectivity, accessibility. - Thematic mapping: socio-economic, ecological, and infrastructural overlays. - Analytical drawing and diagramming: sections, timelines, activity flows, urban narratives. - Hands-on mapping workshop: physical + digital (GIS, Illustrator, hand sketches). - Peer critique sessions for iterative feedback and improvement.	32
Unit 4	Project Proposal (Local Area or Relevant Urban Base) - Identification of urban/local issues through collected data and field insights. - Framing objectives and strategies grounded in interdisciplinary understanding. - Preparation of a local area development proposal — planning or design-based. - Public realm design - Mid-term reviews, simulated stakeholder feedback, and adaptive iteration. - Final jury presentation with report, models/maps, and public display/exhibition.	16

Suggested Specification table for Evaluation:

Distribution of Evaluation					
R Level	U Level	A Level	N Level	E Level	C Level
10%	20%	20%	20%	10%	20%

Legends: R: Remembrance, U: Understanding; A: Apply, N: Analyze, E: Evaluate C: Create and above Levels (Revised Bloom's Taxonomy)

Note: This specification table shall be treated as a general guideline for students and teachers. The actual distribution of marks in the Final Evaluation may vary slightly from above table.



Reference Books:



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Sr No	Title of book /article	Author(s)	Publisher and details like ISBN	Year of publication	Publication Edition
1.	Image of the City	Lynch Kevin		1960	1st Edition
2.	A New Theory of Urban Design	Christopher Alexander	Oxford University Press, London	1987	1st Edition
3.	Urban Space	Rob Krier	Academy Editions, London	1991	Reprint (Original 1979)
4.	Ancient & Medieval Town Planning in India	Prabhakar Begde	Carolina Academic Press., Delhi	1978	1st Edition
5.	City Shaped: Urban Patterns And Meanings Through History	Spiro Kostof	Thames and Hudso, London	1991	1st Edition
6	City Assemble: The Elements Of Urban Form Through History	Spiro Kostof	Thames and Hudso, London	1992	1st Edition
7	Collage City	Colin Rowe & Fred Koetter	The MIT Press; Reprint edition	1984	Reprint (Original 1978)
8	City In History: Its Origin, Its Transformation And Its Prospects	Lewis Mumford	Secker and Warburg, London	1966	Penguin/Harvest Reprint
9	Design of Cities	Edmund Bacon	Thames and Hudson, London	1974	Revised Edition
10	Emerging Concepts in Urban Design	Geoffrey Broadbent	Taylor & Francis	1995	1st Edition

Course Outcomes:

Sr. No.	CO statement	Marks % weightage
CO-1	Demonstrate a foundational understanding of urban development planning and urban design concepts, terminologies, and interdisciplinary approaches.	15%
CO-2	Collect, organize, and interpret urban data related to land use, infrastructure, environment, transport, and socio-demographic aspects.	20%
CO-3	Analyze and synthesize urban patterns and systems through appropriate mapping, representation, and visual communication techniques.	30%
CO-4	Apply critical thinking and collaborative methods to frame local urban issues and develop context-sensitive design or planning strategies.	15%
CO-5	Present coherent urban proposals supported by analytical insights, spatial narratives, and effective visual and verbal communication.	20%



List of Open learning website:

- A. SWAYAM (Study Webs of Active Learning for Young Aspiring Minds) - --<https://swayam.gov.in> (Offers courses in urban planning, environment, GIS, and public policy by premier Indian institutions.)
- B. NIUA (National Institute of Urban Affairs) – Urban Learning Platform - <https://www.niua.org/ulp> (Focused on Indian urban development practices, policies, and tools with curated learning modules.)
- C. edX – <https://www.edx.org>
- D. Coursera – <https://www.coursera.org>
- E. MIT OpenCourseWare (Urban Studies & Planning) – <https://ocw.mit.edu>

List of Open Source Software:

- A. Bhuvan (ISRO)
- B. INDEA – India Digital Earth Application
- C. SMART GIS (developed under Smart Cities Mission initiatives)
- D. QGIS
- E. OpenStreetMap (OSM)
- F. Inkscape

FOR STUDIO SESSIONS:

List of Exercises:

Sr. No.	Studio Exercises / Assignments for CCE
1	Book Review & Urban Reflection Exercise Students review a foundational urban planning or design text and relate its core ideas to the Indian urban context. They supplement their reading with brief field observations in their home or host city to draw parallels and critique the relevance. Outputs include illustrated reflections, short essays, and conceptual diagrams
2	City Transect & Urban Issue Mapping Through a guided transect walk, students document physical elements like land use, density, infrastructure, and public space. They integrate this with a small-scale archival/news-based study of a recurring urban issue (e.g., mobility, housing). The outcome is a layered narrative with sketches, maps, and timeline graphics.
3	Local Area Study – Physical & Demographic Profiling Students select a small urban precinct (e.g., neighborhood, ward) and conduct site visits to document existing land use, building typologies, infrastructure, and open spaces. Demographic and socio-economic data are gathered from secondary sources and brief surveys. This forms the baseline for future analysis and proposals.
4	Existing Situation Analysis – Multi-layered Urban Diagnosis Based on the local area study, students identify key urban patterns and problems using mapping, charts, and synthesis techniques. Themes include transport, housing, environment, and public services. Outputs include SWOT analysis, system maps, and diagrams that highlight spatial, environmental, and social linkages.
5	Visioning & Proposal Development Students frame a vision statement and develop a planning or design-level intervention for the selected area. Proposals should be based on realistic constraints and interdisciplinary approaches, responding to identified needs. Final deliverables include concept plans, strategic maps, section views, and oral presentations.

Year: M.Arch. (UD) I (Semester I)

MITRAJ SARVAJANIK INSTITUTE OF DESIGN, PLANNING & TECHNOLOGY						
Faculty		FADPT			Programme	M.Arch. (UD)
Year		1			Version	1.0
Semester		1			Effective From	June 2025
Course Code		MFGN11101			Course Name	Urban Planning Processes & Techniques
Course Type		Major				
Teaching Scheme				Examination Scheme		
Credits	L	S	Total	CCE	SEE	Total
3	2	1	3	19/37	19/38	75

CCE: Continuous and Comprehensive Evaluation including 20% of Attendance, 80 % of Sincerity in attending classes/class tests/ timely submissions of assignments/self-learning attitude/solving advanced problems/periodic assessment conducted by institute.

The minimum passing head is 50%. it is rounded to 19 marks to avoid "E&O" arising due to decimal value.

SEE: Sem End Evaluation: Theory Exam or Jury/viva on practical skills learned in course. In case of theory exams the question paper of minimum 50 marks (2hrs) will be drawn for evaluation.

Prerequisite (if any): - NA

List of Courses where this course will be prerequisite: - This course serves as a foundational base for planning and urban design studios across all scales in the next three semesters. It equips students with essential theoretical and contextual knowledge. The learnings will support spatial thinking, analytical reasoning, and design application in varied urban contexts.

Rationale: - A strong conceptual foundation is crucial for addressing complex urban challenges across scales. This course introduces core principles and frameworks that guide planning and design decisions. It ensures students are prepared to critically engage with studio projects in subsequent semesters.

Content:

Sr. No.	Description	No. of Hours
Unit 1	Introduction Types of Plans: master plan, development plan, structure plan, district plan, action area plan. Hierarchy of plans: Regional plan, sub-regional plan, sectoral plans and spatial plans.	9
Unit 2	Base map Preparation Contents of base maps at various scales, notations – basic disciplines of maps: measurement of areas etc. Data requirement for urban and regional planning: sources of primary and secondary data, questionnaire design, measurement scale and their application, sampling techniques, types of socio – economic surveys, interviews, mailed questionnaires and observer participation.	9



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Unit 3	Planning Surveys Techniques of conducting surveys for land use, building use, density, structural condition of buildings, height of building, land utilization, physical features of land and information required for preparing various types of plans. Data requirement for various types of plans Tabulation of data, graphical presentation of data, techniques of graphical presentation of spatial data.	6
Unit 4	Data Collection, Analysis and Interpretation Primary and Secondary sources of data, Survey design, Sampling; sample designs, size, types Observational methods; Triangulation, Types of observation, controlled observation. Mail questionnaire, personal and telephone interview; Sources of various data in India Census – A brief introduction and nature of organization- Tabulation, Classification, Graphical methods- Coding and its construction.	6
Unit 5	Demographic Analysis Population Projection - Simplex population forecasting models – The Linear model, Exponential curves. Modified exponential, Gompertz growth curve, comparative method, ratio method. Composite population forecasting models - The cohort- survival model, Migration model, Multipliers, analysis of labour force; sectoral shifts and employment.	6
Unit 6	Economic Analysis Comparative analysis techniques - Specialization, Concentration and Independence association Gini coefficients and Lorenz curves, Spatial distribution analysis using centrography techniques, Rent and Gradient models, Location equilibrium of the firm - transport and labour orientation., Market and supply area analysis and thresholds, Pure gravity model, Reilly's law and mapping of trade areas - constrained and unconstrained gravity model - methods for parameter estimation.	6
Unit 7	Planning Standards Spatial standards, performance standards and benchmarks, and variable standards. UDPFI guidelines, zoning regulations and development controls.	6

Suggested Specification table for Evaluation:

Distribution of Evaluation					
R Level	U Level	A Level	N Level	E Level	C Level
20%	25%	5%	25%	20%	5%

Legends: R: Remembrance, U: Understanding; A: Apply, N: Analyze, E: Evaluate C: Create and above Levels (Revised Bloom's Taxonomy)

Note: This specification table shall be treated as a general guideline for students and teachers. The actual distribution of marks in the Final Evaluation may vary slightly from above table.



Reference Books:

Sr No	Title of book /article	Author(s)	Publisher and like details ISBN	Year of publication	Publication Edition
1.	Urban Planning Analysis: Methods and Models.	Donald A. Kruekeberg and Arthur L. Silvers.	John Wiley & Sons Inc.	1974	1st Edition
2.	P.S.: Quantitative Techniques in Geography: An Introduction.	Hammond, R. and McCullagh	Oxford University Press. London.	1974	1st Edition
3.	Urban Planning Methods	Ian Braken	Routledge	1981	1st Edition (Reprint 2007)
4.	Elementary Statistics in Social Research.	Levin. J..	Harper and Row. New York.	1973	1st Edition
5.	Principles and Practice of Town and Country Planning.	Lewis B. Keeble.	Estates Gazette Ltd.	1969	4th Edition (Standard ref)
6	An introduction to Town planning Techniques.	Margaret Robert.	Hutchinson Educational. Hutchinson	1974	1st Edition

Course Outcomes:

Sr. No.	CO statement	Marks % weightage
CO-1	Gain an In depth knowledge about planning techniques and assessment methods	20%
CO-2	Learn different survey techniques and map preparation	15%
CO-3	Understand analytical methods used in planning	20%
CO-4	Learn different methods of population forecasts and projections	20%
CO-5	Know spatial standards, URDPFI guidelines, zoning regulations and development control rules and regulations.	25%

List of Open learning website:

- A. NPTEL (National Programme on Technology Enhanced Learning) - Website: <https://nptel.ac.in>
- B. e-PG Pathshala - Website: <https://epgp.inflibnet.ac.in>

List of Open Source Software:

- A. QGIS
- B. UrbanSim
- C. MATSim

List of Exercises:

Sr. No.	Studio Exercises / Assignments for CCE
1	Prepare a base map for a selected urban area using both primary and secondary data sources.
2	Design a Thematic Questionnaire for Urban Diagnosis.
3	Prepare a Comparative Chart of Planning Standards (Acts, Rules, Guidelines, Latest Knowledge in the Domain)

Year: M.Arch. (UD) I (Semester I)

MITRAJ SARVAJANIK INSTITUTE OF DESIGN, PLANNING & TECHNOLOGY						
Faculty	FADPT			Programme	M.Arch. (UD)	
Year	I			Version	1.0	
Semester	I			Effective From	June 2025	
Course Code	MFGN12102			Course Name	Urban History & Theory	
Course Type	Minor				-	
Teaching Scheme				Examination Scheme		
Credits	L	S	Total	CCE	SEE	Total
2	1	1	2	13/25	13/25	50

CCE: Continuous and Comprehensive Evaluation including 20% of Attendance, 80 % of Sincerity in attending classes/class tests/ timely submissions of assignments/self-learning attitude/solving advanced problems/periodic assessment conducted by institute.

The minimum passing head is 50%, it is rounded to 13 marks to avoid "E&O" arising due to decimal value.

SEE: Sem End Evaluation: Theory Exam or Jury/viva on practical skills learned in course. In case of theory exams the question paper of minimum 50 marks (2hrs) will be drawn for evaluation.

Prerequisite (if any): - NA

List of Courses where this course will be prerequisite: - NA

Rationale: - This course provides a foundational understanding of an evolution of Cities and human settlements through various socio-political, economic, environmental and technological Context. Planning theory equips students with conceptual frameworks and paradigms to interpret, critique and formulate ideological underpinning of planning practices.

Content:

Sr. No.	Description	No. of Hours
Unit 1	Urban History Significance of the study of evolution of settlements; Cosmological and other influences, origins and growth of cities, effects of cultural influence on physical form; Evolution of Planning, Classification of settlements and plans of ancient Indian villages and towns. • Ancient river valley civilizations (Egyptian, Mesopotamian, Indus valley, Gangetic Region, Chinese and South American). • Planning Characteristics in Indus valley civilization: Case Studies - Harappa and Mohenjo-Daro • Egyptian, Mesopotamian Greek and Roman Civilizations, BC period Town in India, Silk Route Cities: Vaishali, Bhaghalpur, Kushinagar, Sravasti, Kaushambi and Indraprastha in Delhi. • Medieval Examples of SriRangam, Kancheepuram and port town of Poompuhar, Agra, Hampi, Thanjavur, Devagiri, Kozhikode, Varanasi, Somnath.	10



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Unit 2	Dimensions of Planning - Urban Processes Criteria of location and development of towns in history, Political, social and cultural factors which have shaped settlements through history, Indian city typologies and study of urban growth, decline, renewal in different cities based on function, location etc., - Renaissance; Industrial and postindustrial cities; City Beautiful Movements, Colonial cities in India	8
Unit 3	Theories of Settlement Planning Planning Theories by Ebenezer Howard, Camillo Sitte, Patrick Geddes. C.A. Doxiadis, Lewis Mumford, Le Corbusier and Peter Hall; City as a living spatial entity; City as a political statement: New Delhi, Chandigarh, Modernism and Post-Modernist Planning Thought; Advocacy and Pluralism, Global cities, 15-minute city, Sustainable Cities, Healthy City, Resilience City, New Urbanism and Smart Growth Developments.	10
Unit 4	Planning in India Steel Cities, New Cities: Raipur; New Mumbai, New Okhla Development Authority, Greater Okhla Development Authority, Corridor Urbanization.	4

Suggested Specification table for Evaluation:

Distribution of Evaluation					
R Level	U Level	A Level	N Level	E Level	C Level
10%	10%	20%	30%	20%	10%

Legends: R: Remembrance, U: Understanding; A: Apply, N: Analyze, E: Evaluate C: Create and above Levels (Revised Bloom's Taxonomy)

Note: This specification table shall be treated as a general guideline for students and teachers. The actual distribution of marks in the Final Evaluation may vary slightly from above table.

Reference Books:

Sr No	Title of book /article	Author(s)	Publisher details and like ISBN	Year of publication	Publication Edition
1.	Cities of Tomorrow: An Intellectual History of Urban Planning and Design in the 21st Century.	Hall P.	Blackwell Publications, Oxford.	2002	
2.	Cities in Civilization: Culture Technology and Urban Order.	Hall P.	Weidenfeld and Nicolson, London.	1998	
3.	Classic Readings in Urban Planning.	Stein M. J.	McGraw-Hill, New York.	1995	
4.	Medieval Indian History and Architecture.	Nath R.	APH Publishing Pvt. Ltd, New Delhi.	1995	
5.	A Theory of Good City Form.	Lynch K.	Cambridge Publications, London.	1981	





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6	Settlement Patterns and Planning in India.	Dr. Singh Satvir	Akinik Publications, Delhi.	2019	-
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Course Outcomes:

Sr. No.	CO statement	Marks % weightage
CO-1	Describe and analyze the historical evolution of cities with attention to the economic, political, and social forces that influenced urban growth and transformation.	30%
CO-2	Interpret and critique major urban planning theories in light of the historical and cultural contexts in which they emerged.	40%
CO-3	Develop informed perspectives on current urban planning practices by linking past planning ideologies and historical case studies with contemporary urban issues.	30%

List of Exercises:

Sr. No.	Studio Exercises / Suggestive Assignments for CCE
1	Critique selected urban planning theories with focus on how theories addressed urban problems of their time
2	Comparative analysis of selected cities with focus on planning principles, public spaces, morphology, street patterns using historical maps and photographs
3	Applying a Planning Theory to a contemporary Urban issue. with focus on theory interpretation, critical reflection.



Year: M.Arch. (UD) I (Semester I)

MITRAJ SARVAJANIK INSTITUTE OF DESIGN, PLANNING & TECHNOLOGY						
Faculty		FADPT		Programme		M.Arch. (UD)
Year		I		Version		1.0
Semester		I		Effective From		June 2025
Course Code		MFGN12103		Course Name		Infrastructure Planning
Course Type		Minor				
Teaching Scheme				Examination Scheme		
Credits	L	S	Total	CCE	SEE	Total
2	1	1	2	13/25	13/25	50

CCE: Continuous and Comprehensive Evaluation including 20% of Attendance, 80 % of Sincerity in attending classes/class tests/ timely submissions of assignments/self-learning attitude/solving advanced problems/periodic assessment conducted by institute.

The minimum passing head is 50%, it is rounded to 13 marks to avoid "E&O" arising due to decimal value.

SEE: Sem End Evaluation: Theory Exam or Jury/viva on practical skills learned in course, In case of theory exams the question paper of minimum 50 marks (2hrs) will be drawn for evaluation.

Prerequisite (if any): - NA

List of Courses where this course will be prerequisite: - This course provides essential foundational knowledge for all advanced planning subjects, including Town Planning Scheme, Development Plan, and regional planning at various scales practiced in India. It equips students with the analytical and strategic tools required for effective Infrastructure planning. Most importantly, it prepares students for competent and impactful professional practice in the field.

Rationale: - The course emphasises on introducing essential infrastructure systems-networks, and various aspects of infrastructure planning and management in the context of concurrent urbanization scenarios and on understanding the need for integration of infrastructure in the overall process of planning and design at various scales. The course further focuses on understanding various challenges as well as approaches involved in designing sustainable infrastructure that is high performing, cost-effective, resource-efficient, disaster resilient, context responsive and environment-friendly.

Content:

Sr. No.	Description	No. of Hours
Unit 1	Understanding Urban Infrastructure Understanding "Infrastructure", its types, (Physical, Social, Utilities and Services) basic definitions, concepts, significance, impact on urban form, role of Infrastructure in development, elements of Infrastructure, Standards and benchmarks for infrastructure provision and delivery at various levels. Concepts of "Blue" and "Green" Infrastructure and integrated approach of infrastructure planning and design, study of Best Practices	4
Unit 2	Physical Infrastructure Planning and management of urban services i.e. water supply, sewerage, storm, solid waste management, energy System, fire safety, communication system, etc., components of each system, and its integration. Different types of transportation systems and its relevant infrastructure, elements of transport infrastructure,	12

	components of each system, and its integration. Study of best practices to overcome the issues and challenges of infrastructure planning and management in the context of Indian Scenario	
Unit 3	Social, Economic and Digital Infrastructure Understanding the need of social infrastructure such as health, education, Socio-Cultural and Recreational etc and its integration in land use plan. Tourism Infrastructure: Ports, Airports, Inland Waterways. Special Economic Zones (SEZ). Energy, Railways and Digital infrastructure; National Highway Network & Projects: Golden Quadrilateral, DMIC-DFC Corridor, North-South and East- West Corridors and its impact on regional space; PMGSY and its impact on village connectivity etc. Railways: Goods and passengers train, dry ports, container depot etc.. high-speed connectivity and Metro and Supply projections: Investment and pricing: Trans-boundary issues in production and sharing: Privatization issues; Nuclear Energy: issues involved and probable spatial impact.	12
Unit 4	Infrastructure Management & Finance Infrastructure development models, role of public and private sector, public-private partnership, requirements of appropriate technology, cost recovery, gap analysis.	4

Suggested Specification table for Evaluation:

Distribution of Evaluation					
R Level	U Level	A Level	N Level	E Level	C Level
10%	20%	10%	25%	25%	10%

Legends: R: Remembrance, U: Understanding; A: Apply, N: Analyze, E: Evaluate C: Create and above Levels (Revised Bloom's Taxonomy)

Note: This specification table shall be treated as a general guideline for students and teachers. The actual distribution of marks in the Final Evaluation may vary slightly from above table.

Reference Books:

Sr No	Title of book /article	Author(s)	Publisher and details like ISBN	Year of publication	Publication Edition
1	Urban & Regional Development Plans Formulation and Implementation Guidelines (URDPFI)	Ministry of Urban Development (MoUD)	Government of India, New Delhi	2014	Revised Edition (Vol. 1 & 2)
2	Report on Indian Urban Infrastructure and Services	Isher Judge Ahluwalia (Chairperson, HPEC)	Ministry of Urban Development, Government of India	2011	Final Report
3	Financing Urban Infrastructure in India	NIUA Team	National Institute of Urban Affairs; Research Study Series 59	1997	Research Study Series 59
4	Urban and Regional Planning: A Systems Approach	McLoughlin, Brian J.	Rawat Publications, New Delhi; ISBN: 978-	2019	Indian Reprint



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			8131610480		
5	Infrastructure Development in India	Sethi, V.K.	New Century Publications, New Delhi; ISBN: 978-8177081466	2007	1st Edition
6	SAAR Reports (Smart Cities and Academia Towards Action & Research)	NIUA & Ministry of Housing and Urban Affairs	NIUA, New Delhi	2018	Compendium Vol. I
7	Urban Infrastructure and Governance	G. Ramesh, Nagadevara V., Naik G., Suraj A.	Routledge India; ISBN: 978-0415576758	2010	1st Edition
8	Norms and Standards for Urban Water Supply and Sewerage Services	TCPO and Ministry of Works and Housing	Government of India, New Delhi	1983	Advisory Manual
9	Elements of Water Supply and Waste Water Disposal	Fair, G. M., Geyer, J. C. and Okun, D.A.	John Wiley & Sons, New York; ISBN: 978-0471251156	1971	2nd Edition
10	Urban Water Engineering and Management	Mohammad Karamouz, et al.	Taylor & Francis Group, USA; ISBN: 978-1439813102	2010	1st Edition
11	Planning Designing and Engineering of Sustainable Urban Transport Systems	A. K. Jain	Khanna Publishers, New Delhi; ISBN: 978-9381068809	2018	1st Edition
12	Solid Waste Management Practices in Urban India: A Compendium	NIUA Team	National Institute of Urban Affairs, Delhi	2019	Compendium
13	Urban Transportation in Indian Cities: Compendium of Good Practices	NIUA & PEARL	NIUA, Delhi	2015	Final Compendium



Course Outcomes:

Sr. No.	CO statement	Marks % weightage
CO-1	Upon the completion of this course, the students will be able to appreciate the regional infrastructure for the preparation of regional development plan at metro regional and other regions.	15%
CO-2	Understand essential urban services and classification of infrastructure	35%
CO-3	Recognize the need for integrated, inclusive and sustainable approach for infrastructure planning and management	35%
CO-4	Integrate the knowledge gained through this course in studio projects	15%

List of Open learning website:

- A. NPTEL (National Programme on Technology Enhanced Learning)
Website: <https://nptel.ac.in>
- B. MIT OpenCourseWare – Urban Studies and Planning
Website: <https://ocw.mit.edu/courses/urban-studies-and-planning>

List of Open Source Software:

- A. QGIS
- B. EPANET
- C. Openstreetmap

List of Exercises:

Sr. No.	Studio Exercises / Assignments for CCE
1	Case Study of Best Practices in Infrastructure
2	Existing Situation Analysis / Gap Analysis of City's Infrastructure
3	Comprehensive Infrastructure Plan of Selected City

Year: M.Arch. (UD) I (Semester I)

MITRAJ SARVAJANIK INSTITUTE OF DESIGN, PLANNING & TECHNOLOGY						
Faculty		FADPT		Programme		M.Arch. (UD)
Year		I		Version		1.0
Semester		I		Effective From		June 2025
Course Code		MFGN12104		Course Name		Housing Planning & Management
Course Type		Minor				-
Teaching Scheme				Examination Scheme		
Credits	L	S	Total	CCE	SEE	Total
2	1	1	2	13/25	13/25	50

CCE: Continuous and Comprehensive Evaluation including 20% of Attendance, 80 % of Sincerity in attending classes/class tests/ timely submissions of assignments/self-learning attitude/solving advanced problems/periodic assessment conducted by institute.

The minimum passing head is 50%, it is rounded to 13 marks to avoid "E&O" arising due to decimal value.

SEE: Sem End Evaluation: Theory Exam or Jury/viva on practical skills learned in course. In case of theory exams the question paper of minimum 50 marks (2hrs) will be drawn for evaluation.

Prerequisite (if any): - NA

List of Courses where this course will be prerequisite: - This course provides essential foundational knowledge that underpins all core and studio-based subjects in urban planning, including technical areas like transportation planning and key humanities disciplines such as sociology and economics. It equips students with the critical concepts and skills necessary for advanced learning and effective application across the planning curriculum.

Rationale: - A strong foundation in planning principles and analytical techniques is crucial for understanding the interdisciplinary nature of urban planning. This course introduces key methods, terminologies, and frameworks that are applied across technical and humanities subjects. It ensures students are well-prepared to engage with complex urban systems in both theoretical and practical contexts.

Content:

Sr. No.	Description	No. of Hours
Unit 1	Introduction to housing Definition of Basic Terms – House, Shelter, Household, Housing typologies, Objectives and Strategies of National Housing Policies including Rural and Slum Housing Policy, Principles of Housing planning, density and density norms, All basic infrastructure considerations, Introduction to all Institutions for Housing at National, State and Local levels.	6
Unit 2	Housing and development Importance and Reflections of Housing on Social, Cultural and Economic Development, Role of Government and Public Agencies in Housing Development, National Housing Policy in India, Comparison of Housing Policies and Programmes of Developed and Developing Countries.	6

Unit 3	Housing scenario in India Housing Stock and its sufficiency in urban & rural settlements, Housing quality and its determinants, Housing supply and demand assessments, external and internal factors of influence on housing development, Five year plans of GOI, Nature and Type of housing development Programmes - Sites and Services, LIG, MIG, HIG Schemes, Rural Housing Schemes - Slum Housing Programmes - Cooperative and Private Sector Housing.	6
Unit 4	Planning and design of housing projects Formulation of Housing Projects – Land suitability analysis, Building Byelaws and Rules and Development Control Regulations, Site Analysis, Layout Design, Design of Housing Units (Design Problems), Housing Project Formulation.	6
Unit 5	Construction techniques and cost-effective materials Innovative Construction Techniques, Cost effective modern materials and methods of construction, Green building concept, Performance Evaluation.	4
Unit 6	Housing finance and project appraisal Evaluation of Housing Projects for sustainable principles – Housing finance, Cost recovery, cash flow analysis, Subsidy and cross subsidy, Public private partnership projects, Viability gap funding, Pricing of housing units.	4

Suggested Specification table for Evaluation:

Distribution of Evaluation					
R Level	U Level	A Level	N Level	E Level	C Level
25%	25%	5%	25%	15%	5%

Legends: R: Remembrance, U: Understanding; A: Apply, N: Analyze, E: Evaluate C: Create and above Levels (Revised Bloom's Taxonomy)

Note: This specification table shall be treated as a general guideline for students and teachers. The actual distribution of marks in the Final Evaluation may vary slightly from above table.

Reference Books:

Sr No	Title of book /article	Author(s)	Publisher and details like ISBN	Year of publication	Publication Edition
1	Social Research Techniques for Planners	Burton, T.L. and Cherry, G.E.	George Allen and Unwin, London; ISBN: 978-0047110023	1970	1st Edition
2	Metropolitan Housing Markets: A Case Study of Ahmedabad	Meera Mehta and Dinesh Mehta	Sage Publications Pvt. Ltd., New Delhi; ISBN: 978-8170361473	1989	1st Edition (Note: Often cited as 1989)
3	The House Versus Housing	Davis, S.	Van Nostrand Reinhold, NY; ISBN: 978-0442220037	1977	The Form of Housing, NY
4	Residential Density	Diamond, A.J.	Journal of	1976	JAE, Vol. 19, No. 3



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			Architectural Education (JAE)		
5	Housing in India	Francis Cherunilam and Odeyar D. Heggade	Himalaya Publishing House, Bombay; ISBN: 978-8174932174	1987	1st Edition (Revised 1997).
6	Review of Literature on Housing Programme for the Urban Poor in India	De, Prasanta	Reader on Housing, CEPT, Ahmedabad	1988	Monograph/Reader
7	The Evolution of Housing Concepts 1870-1970	Frampton, K.	Lotus International	1975	Lotus, No. 10, Nov. 1975
8	National Housing Policy	Ministry of Urban Development	Government of India, New Delhi	1988	First Policy Document
9	Housing Condition and Situation	NBO (National Buildings Organisation)	Handbook of Housing Statistics, GOI, New Delhi	1980	Annual Statistical Report
10	Introduction to Urban Housing Design	Graham Towers	Routledge; ISBN: 978-0750659024	2005	1st Edition
11	Communitas: Means of Livelihood and Ways of Life	Goodman, Paul and Percival	New York: Vintage Books; ISBN: 978-0394701745	1960	2nd Revised Edition
12	Handbook of Housing Statistics	National Buildings Organisation (NBO)	Building Organization, Government of India	1981	1981 Edition
13	Housing for the lowest income group: the Calcutta experience	Rosser, C.	Ekistics, Vol. 31, No. 183	1971	Journal Article
14	Housing Situation in Greater Bombay	Ramachandran, P.	CIDCO Report No. 2, Bombay; Tata Institute of Social Sciences	1972	CIDCO Report Series

Course Outcomes:



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Modified and approved in April 2026, applicable to all the batches admitted from AY 2025 onwards.



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Sr. No.	CO statement	Marks % weightage
CO-1	Analyse the current state of housing conditions in India, with a focus on the interplay between public policies, private markets, and the role of various government agencies in shaping housing and community development.	25%
CO-2	Critically assess the impact of housing policies, programs, and strategies on economic development, local economies, and neighborhood institutions, with particular emphasis on low-income and inner-city areas.	25%
CO-3	Evaluate the effectiveness of public and private interventions aimed at improving housing conditions and community development, while considering broader agendas related to urban growth and sustainability.	25%
CO-4	Reflect on the roles of urban planners in housing, community, and economic development processes, and evaluate their contribution to shaping and implementing policies that address housing challenges.	25%

List of Open learning website:

- A. NPTEL (National Programme on Technology Enhanced Learning)
Website: <https://nptel.ac.in>
- B. Coursera – <https://www.coursera.org>

List of Open Source Software:

- A. OpenStreetMap
- B. Microsoft Excel (or LibreOffice Calc)
- C. R (with spatial and statistical analysis packages)

List of Exercises:

Sr. No.	Studio Exercises / Assignments for CCE
1	Analyze and compare the objectives and strategies of India's National Housing Policy with those of a developed country.
2	Assess housing demand and supply in a selected urban area using census and survey data.
3	Prepare a conceptual layout design for a housing project, including land suitability and development control regulations.



Year: M.Arch. (UD) I (Semester I)

MITRAJ SARVAJANIK INSTITUTE OF DESIGN, PLANNING & TECHNOLOGY						
Faculty	FADPT			Programme	M.Arch. (UD)	
Year	I			Version	1.0	
Semester	I			Effective From	June 2025	
Course Code	MFGN12105			Course Name	Urban Ecology	
Course Type	Minor					
Teaching Scheme				Examination Scheme		
Credits	L	S	Total	CCE	SEE	Total
2	1	1	2	13/25	13/25	50

CCE: Continuous and Comprehensive Evaluation including 20% of Attendance, 80 % of Sincerity in attending classes/class tests/ timely submissions of assignments/self-learning attitude/solving advanced problems/periodic assessment conducted by institute.

The minimum passing head is 50%, it is rounded to 13 marks to avoid "E&O" arising due to decimal value.

SEE: Sem End Evaluation: Theory Exam or Jury/viva on practical skills learned in course, In case of theory exams the question paper of minimum 50 marks (2hrs) will be drawn for evaluation.

Prerequisite (if any): - NA

List of Courses where this course will be prerequisite: - NA

Rationale: - The Course aims to develop an understanding of various ecological phenomena and the impact of human driven development on these systems. The Emphasis of the course is to expose students to various environmental concerns in the process of urban development and to sensitize them towards various approaches that can lead to design "ecologically sensitive and sustainable urban environment". The focus is on perceiving urban spatiality between natural settings and manmade elements at various scales, analyzing the change pattern in landscapes and ecosystems with their causes and consequences and exploring various tools, methods and techniques to efficiently manage and negotiate these transformations. The course also introduces various parameters for assessing environmental impacts of different types and scale of projects and enhances the vision of perceiving the city that is more harmonious with nature.

Content:

Sr. No.	Description	No. of Hours
Unit 1	Places as "Organisms" - Understanding Natural and Urban Systems and Processes.	4
Unit 2	Landscape analytics and criticality mapping.	12
Unit 3	Applied principles of Landscape Ecology to Spatial Planning.	4
Unit 4	Ecosystem Services (ES) driven Urban Planning - Applying Ecosystem Services (ES) approach to Urban management for Sustainable development.	12

Suggested Specification table for Evaluation:

Distribution of Evaluation					
R Level	U Level	A Level	N Level	E Level	C Level
10%	10%	30%	20%	20%	10%

Legends: R: Remembrance, U: Understanding, A: Apply, N: Analyze, E: Evaluate C: Create and above Levels (Revised Bloom's Taxonomy)

Note: This specification table shall be treated as a general guideline for students and teachers. The actual distribution of marks in the Final Evaluation may vary slightly from above table.

Reference Books:

Sr No	Title of book /article	Author(s)	Publisher and details like ISBN	Year of publication	Publication Edition
1.	Urban Ecology: An Introduction	Douglas Ian	Routledge	2015	
2.	Urban Ecology: Science of Cities.	Forman, Richard	Cambridge University Press.	2014	
3.	Urban Ecology: Patterns, Processes, and Applications.	Jari Niemelä, Jürgen H. Breuste, Thomas Elmqvist, Glenn Guntenspergen, Philip James, and Nancy E. McIntyre	Oxford University Press.	2011	
4.	Applied Urban Ecology: A Global Framework.	Richter Matthias	Wiley-Blackwell.	2011	
5.	Urban Ecology: Strategies for green infrastructure and land use.	Etingoff, Kimberly	Apple Academic Press, Inc. U.S.	2016	
6	Ecological Networks and Greenways: Concept, Design, Implementation.	Jongman, Rob & Pungetti, Gloria.	Cambridge University Press, UK.	2004	
7	Land Mosaics: The Ecology of Landscapes and Regions.	Forman, Richard	Cambridge University Press, UK.	1995	
8	Urban Regions: Ecology and Planning Beyond the City.	Forman, Richard	Cambridge University Press, UK.	2008	
9	Wetlands: A threatened Landscape.	Williams, Michael	Blackwell, Oxford UK & Cambridge USA.	1990	
10	Smart cities + eco-warriors.	Lim, CJ & Liu Ed	Routledge	2010	

Course Outcomes:

Sr. No.	CO statement	Marks % weightage
CO-1	Understand significance of “ecology” and “ecosystems” with reference to urban development. Understand various layers of urban environment (natural and man-made) and their interrelationships.	15%
CO-2	Detect, map and analyse the negative impact and/or risk factors associated with existing and/or proposed development patterns to existing natural systems.	35%
CO-3	Realise Key Issues and Challenges of Ecological Urban Development	15%
CO-4	Recognize the importance of ecological planning in order to meet “Sustainable Development Goals.”	35%

List of Open learning website:

- A. EdX open courses
- B. Swayam
- C. Coursera

List of Open Source Software:

- A. QGIS
- B. Google Earth Engine
- C. EarthRanger

List of Exercises:

Sr. No.	Studio Exercises / Assignments for CCE
1	Literature Review / Case Study / Essay Writing
2	Having learnt the “Layered Analysis Method” developed by Ian McHarg, create a criticality map for a proposed regional plan/Development plan/Local Area Plan/ Master plan. (Group work)
3	Preparation of a Development Proposal using Land Suitability Analysis (LSA) incorporating Landscape Ecology principles and Ecosystem Services (ES) understanding for a Sustainable Development. (Group work)

Year: M.Arch. (UD) I (Semester I)

MITRAJ SARVAJANIK INSTITUTE OF DESIGN, PLANNING & TECHNOLOGY						
Faculty	FADPT			Programme	M.Arch. (UD)	
Year	I			Version	1.0	
Semester	I			Effective From	June 2025	
Course Code	MFGN15106			Course Name	Urban Cartography & GIS	
Course Type	Skill Enhancement					
Teaching Scheme				Examination Scheme		
Credits	L	S	Total	CCE	SEE	Total
3	2	1	3	19/37	19/38	75

CCE: Continuous and Comprehensive Evaluation including 20% of Attendance, 80 % of Sincerity in attending classes/class tests/ timely submissions of assignments/self-learning attitude/solving advanced problems/periodic assessment conducted by institute.

The minimum passing head is 50%, it is rounded to 19 marks to avoid "E&O" arising due to decimal value.

SEE: Sem End Evaluation: Theory Exam or Jury/viva on practical skills learned in course. In case of theory exams the question paper of minimum 50 marks (2hrs) will be drawn for evaluation.

Prerequisite (if any): - NA

List of Courses where this course will be prerequisite: - This course provides essential foundational knowledge required for all courses and studios that involve spatial planning and spatial analysis. It equips students with the tools to interpret, analyze, and visualize spatial data effectively. The skills gained are critical for understanding existing conditions as well as envisioning future urban development. Mastery of this subject is fundamental to informed and data-driven planning decisions.

Rationale: - Understanding spatial relationships and patterns is central to urban planning and decision-making. This course trains students in key analytical tools like mapping, data layering, and geospatial interpretation. Such skills are indispensable for both assessing current urban conditions and developing future planning strategies.

Content:

Sr. No.	Description	No. of Hours
Unit 1	Mapping Tools and Techniques, Urban Scale Drawings Understanding the importance of cartography through theoretical understanding followed by exposure to various maps, Learning methods and techniques of Cartography, Learning Cartographical mapping like topography, rural/urban layers, infrastructure, natural features, etc., Learning various analytical techniques.	8
Unit 2	Understanding Basics of GIS History, ArcGIS, QGIS, Applications, Setup, Interface Understanding Basics of Remote Sensing History, Dataset, Application, Types & Programs	8
Unit 3	Learning spatial information generation through GIS mapping and its extraction. Process of Making Geo-Database Georeferencing, Types of File Extension, Layer Overlapping, Learning ArcGIS Tools & Interface Drafting & Digitalization Point,	16



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Master of Architecture (Urban Design)



	Line, Polygone, Area, Volume, Analytics, Learning Q-GIS tools, Various plug-ins related to Q-GIS.	
Unit 4	Understanding of Raw Satellite Image & Image Classification Creating Thematic Maps Attributes, Scale, Direction, Legends, Colour Scheme, Maps	8
Unit 5	Introduction to Google Earth Engine	8

Suggested Specification table for Evaluation:

Distribution of Evaluation					
R Level	U Level	A Level	N Level	E Level	C Level
15%	20%	20%	20%	5%	20%

Legends: R: Remembrance, U: Understanding; A: Apply, N: Analyze, E: Evaluate C: Create and above Levels (Revised Bloom's Taxonomy)

Note: This specification table shall be treated as a general guideline for students and teachers. The actual distribution of marks in the Final Evaluation may vary slightly from above table.

Reference Books:

Sr No	Title of book /article	Author(s)	Publisher and details like ISBN	Year of publication	Publication Edition
1.	Maps, Knowledge and Power in The New Nature of Maps: Essays in the History of Cartography.	J.B. Harley	The Johns Hopkins University press, Baltimore and London	2001 (1st ed. 1988)	
2.	Great City Maps: A historical journey through maps, plans, and paintings	Dorling Kindersley Ltd	DK	2016	
3.	Great Maps: The World's Masterpieces Explored and Explained	Dorling Kindersley Ltd	DK	2014	
4.	Maps and Meaning: Urban Cartography and Urban Design.	Julie Nichols	Academica Press	2013	
5.	Mapping Society: The Spatial Dimensions of Social Cartography.	Laura Vaughan	UCL Press	2018	
6	In the City: Drawings by Nigel Peake	Nigel Peake	Princeton Press	2013	



Course Outcomes:

Sr. No.	CO statement	Marks % weightage
CO-1	Understand and Map tangible and intangible aspects of any city or town	20%
CO-2	Analyse data through various techniques	15%
CO-3	Represent various data through drawings.	15%
CO-4	Understand basics of GIS and Q-GIS software and their applicability in analysis and drawing making.	25%
CO-5	Prepare technical and analytical drawings using GIS, Illustrator and similar platforms.	25%

List of Open learning website:

- A. Esri Learn ArcGIS – <https://learn.arcgis.com>
- B. Alison – <https://alison.com>

List of Open Source Software:

- A. Google Earth Engine
- B. QGIS/ GRASS GIS
- C. Bhuvan (ISRO's Geoportal)
- D. Google Earth Pro

List of Exercises:

Sr. No.	Studio Exercises / Assignments for CCE
1	Create a thematic map using QGIS to represent urban infrastructure layers of a selected area. This will be an Infrastructure Mapping Exercise for The Precinct.
2	Drafting an Area using Point, Line, Polygon.
3	Creating Thematic Map of Drafted Area

Year: M.Arch. (UD) I (Semester II)

MITRAJ SARVAJANIK INSTITUTE OF DESIGN, PLANNING & TECHNOLOGY						
Faculty	FADPT			Programme	M.Arch. (UD)	
Year	I			Version	2.0	
Semester	II			Effective From	June 2025	
Course Code	MRUD21201			Course Name	Inclusive & Sustainable Urban Design Studio	
Course Type	Major				-	
Teaching Scheme				Examination Scheme		
Credits	L	S	Total	CCE	SEE	Total
8	-	8	8	50/100	50/100	200

CCE: Continuous and Comprehensive Evaluation including 20% of Attendance, 80 % of Sincerity in attending classes/class tests/ timely submissions of assignments/self-learning attitude/solving advanced problems/periodic assessment conducted by institute.

SEE: Sem End Evaluation: Theory Exam or Jury/viva on practical skills learned in course, In case of theory exams the question paper of minimum 50 marks (2hrs) will be drawn for evaluation.

Prerequisite (if any): - NA

List of Courses where this course will be prerequisite: - It builds the groundwork for Urban Transformation Studios, it ensures students enter complex transformation project studio with aligned spatial thinking, understanding of mechanisms, analytical skills, and interdisciplinary foundations.

Rationale: - The studio fosters critical understanding of inclusive and sustainable urbanism by engaging students with master planning, urban form evolution, and development mechanisms. It equips them to address social equity, climate responsiveness, and spatial justice through analytical tools, participatory methods, and design strategies, preparing them to envision resilient, context-sensitive urban futures rooted in real-world complexities and community needs.

Content:

Sr. No.	Description	No. of Hours
Unit 1	To understand and evaluate the potential and the environmental condition of the site in the context of the regional setting and with respect to new development.	16
Unit 2	To understand the process of Green Field Development and to develop and draw references from the existing built morphology/typology for the new extensions in today's context.	24
Unit 3	Socio-Economic concerns in coming up with inclusive and sustainable development	8
Unit 4	To develop a complete design proposal for the area including principles of site planning, natural features and environment, density pattern and lessons from tradition.	24
Unit 5	Understanding Urban Form Determinants	16
Unit 6	Urban mobility a) Urban Mobility and Sustainable cities	16

	b) Integration of Public Spaces and Mobility Network c) Transit Oriented Development d) Mega Mobility plans and Urban Design (Metro/ BRTS/ High Mobility Corridors/etc.)	
Unit 7	Urban ecology a) Sustainable Cities b) Sustainable Development and Social Inclusiveness c) Urban Resilience d) Water Sensitive Urban Design	24

Suggested Specification table for Evaluation:

Distribution of Evaluation					
R Level	U Level	A Level	N Level	E Level	C Level
0%	20%	20%	15%	10%	35%

Legends: R: Remembrance. U: Understanding: A: Apply. N: Analyze. E: Evaluate C: Create and above Levels (Revised Bloom's Taxonomy)

Note: This specification table shall be treated as a general guideline for students and teachers. The actual distribution of marks in the Final Evaluation may vary slightly from above table.

Reference Books:

Sr. No.	Title of book /article	Author(s)	Publisher and details like ISBN	Year of publication	Publication Edition
1.	Making Sense of Cities: A geographical Survey	Blair Badcock	Routledge	2002	1st Edition
2.	New Movement in Cities	Brian Richards	Little Hampton Book Service Ltd.	1966	
3.	New Urbanism and Beyond: Designing Cities for the Future	Rizzoli		2008	
4.	Planning Sustainable and Liveable Cities	Wheeler, Stephen	Routledge	1998	3rd Edition
5.	The Death and Life of Great American Cities	Jane Jacobs	Vintage	1992	Reissue edition
6	The City of Tomorrow and Its Planning	Le Corbusier	Dover Publications	1987	Reissue edition
7	The New Urbanism: Towards and Architecture of Community	Peter Katz	McGraw Hill Education	1993	1st Edition
8	Urbanization in Ancient India	Thakur Vijaykumar	Abhinav publication, New Delhi	1981	
9	Urban Design: The Architecture of towns and cities	Paul D. Spreiregen,	McGraw Hill, New York	1965	

Course Outcomes:

Sr. No.	CO statement	Marks % weightage
CO-1	Design Master Plans for greenfield / brownfield development with a holistic vision using prevalent / envisaged development mechanisms in a given urban situation.	30%
CO-2	Understand the impact of large-scale development on the environment and ways of minimizing this impact and understanding of Sustainability as a holistic idea with necessary calculations.	25%
CO-3	Develop understanding for generating urban form and development of Urban Design Guidelines.	15%
CO-4	Develop sensitivity towards issues of inclusivity related to age groups, gender, biodiversity, economic groups and all the under-represented groups in large scale development.	15%
CO-5	Develop Understanding related to Urban Mobility with Comprehensive Mobility understanding along with novel Concepts of NMT, Micro-Mobility, Green Connections, etc.	15%

List of Open learning website:

- A. <https://ocw.mit.edu/>
- B. <https://learn.unhabitat.org>
- C. <https://www.edx.org>

List of Open Source Software:

- A. <https://qgis.org>
- B. <https://www.ladybug.tools>
- C. <https://www.openstreetmap.org>
- D. <https://cityform.mit.edu/projects/urban-network-analysis-toolbox>

FOR STUDIO SESSIONS:

List of Exercises:

Sr. No.	Studio Exercises / Assignments for CCE
1	Urban Area Analysis with Mapping and Documentation of an identified area with necessary layers such as Land Use, Built v/s Open, Road Network and Hierarchy, Green Space, Social Infrastructure, etc. along with Urban governance and Finance Mechanism. This has to be supported by Book readings & reviews, site visits and stakeholder meetings.
2	Site Identification and Site Analysis for an identified parcel of Land with proposed Programme for Green Field / Brown Field Development.
3	Vision Formulation and Concept Design Exercise to develop Imagination for Inclusive and Sustainable Concepts of Urban Design in contemporary times.
4	Design Development with Master Plan and Block Level Design Intervention along with Urban Form Generation
5	Urban Design Character and Sustainability Analysis using software to understand the impact on environment and resources.
6	Final Proposal – A holistic project proposal to demonstrate the understanding and design skills of the student in handling complex urban development issues

Year: M.Arch. (UD) I (Semester II)

MITRAJ SARVAJANIK INSTITUTE OF DESIGN, PLANNING & TECHNOLOGY						
Faculty	FADPT			Programme	M.Arch. (UD)	
Year	I			Version	2.0	
Semester	II			Effective From	June 2025	
Course Code	MRUD21202			Course Name	Urban Landscape	
Course Type	Major				-	
Teaching Scheme				Examination Scheme		
Credits	L	S	Total	CCE	SEE	Total
3	2	1	3	19/37	19/38	75

CCE: Continuous and Comprehensive Evaluation including 20% of Attendance, 80 % of Sincerity in attending classes/class tests/ timely submissions of assignments/self-learning attitude/solving advanced problems/periodic assessment conducted by institute.

The minimum passing head is 50%, it is rounded to 19 marks to avoid "E&O" arising due to decimal value.

SEE: Sem End Evaluation: Theory Exam or Jury/viva on practical skills learned in course. In case of theory exams the question paper of minimum 50 marks (2hrs) will be drawn for evaluation.

Prerequisite (if any): - NA

List of Courses where this course will be prerequisite: - N.A.

Rationale: - The emphasis of this course is functional integration of Urban systems with Natural systems for a holistic Urban experience and Livability. The urban environment must have integration of ecological aspects to offer quality of life.

Content:

Sr. No.	Description	No. of Hours
Unit 1	Understanding Urban Landscape theories and methodology	6
Unit 2	Understanding Landscape at Regional, City, Neighbourhood & Plot level	4
Unit 3	Understanding Landscape sensitive Urban Design	6
Unit 4	Understanding City as Landscape - Determinants of Urban Landscapes.	6
Unit 5	Elements of Urban Landscapes - Learning through Case studies.	12
Unit 6	Implications of theory into Studio project design/ Research Project.	14

Suggested Specification table for Evaluation:

Distribution of Evaluation					
R Level	U Level	A Level	N Level	E Level	C Level
5%	15%	20%	15%	15%	30%

Legends: R: Remembrance, U: Understanding; A: Apply, N: Analyze, E: Evaluate C: Create and above Levels (Revised Bloom's Taxonomy)

Note: This specification table shall be treated as a general guideline for students and teachers. The actual distribution of marks in the Final Evaluation may vary slightly from above table.

Reference Books:

Sr No	Title of book /article	Author(s)	Publisher and details like ISBN	Year of publication	Publication Edition
1.	The Historic Urban Landscape: Managing Heritage in an Urban Century	Francesco Bandarin and Ron van Oers	Wiley 978-1119968108	2012	1st
2.	The modern urban landscape	Edward Relph	London : Croom Helm 9780801835605	1987	1st
3.	Urban Landscape Ecology: Science, Policy and Practice	Robert A. Francis, James D.A. Michael A. Chadwick	Routledge 9781138888517	2016	1st
4.	The Landscape of Man - Shaping the Environment from Prehistory to the Present Day	Geoffrey and Susan Jellicoe	Thames and Hudson 978-0500278192	1995	3rd
5.	Landscape Architecture - A Manual of Environmental Planning and Design	Barry W. Starke & John Ormsbee Simonds	McGraw Hill 978-0071797658	2013	5th

Course Outcomes:

Sr. No.	CO statement	Marks % weightage
CO-1	Understand urban landscape theories and its application in the Urban Design process.	20%
CO-2	Employ the techniques learnt in Landscape sensitive Urban Design.	40%
CO-3	Synthesise knowledge related to Natural Systems in Urban Design.	40%

List of Open learning website:

- A. <https://www.lafoundation.org/>
- B. <https://learn.asla.org>
- C. <https://www.coursera.org>

List of Open Source Software:

- A. QGIS
- B. Google Earth Engine
- C. EarthRanger

List of Exercises:

Sr. No.	Studio Exercises / Assignments for CCE
1	Based on the Input Lecture, kindly find relevant local/regional/global examples demonstrating effective integration of Landscape elements into Urban Design from the context of Urban Livability. This will be taken up for open discussion in the class to develop a nuanced understanding of the subject.
2	Having requisite understanding of the various Urban Developmental processes (involving both the Brown field and Green field development), develop a circumspect understanding of these processes in your own city/region and undertake careful analysis to identify critical/vulnerable/degraded locations from the viewpoint of Urban livability and experience.
3	Based on the analysis and identification of critical zones in Exercise-2, prepare a landscape-sensitive proposal in the form of a Structure Plan with all necessary components reflecting a sensitive approach to nature integrated Urban Place-making.

Year: M.Arch. (UD) I (Semester II)

MITRAJ SARVAJANIK INSTITUTE OF DESIGN, PLANNING & TECHNOLOGY						
Faculty		FADPT		Programme	M.Arch. (UD)	
Year		I		Version	1.0	
Semester		II		Effective From	June 2025	
Course Code		MFGN11201		Course Name	Planning Legislation & Urban Governance	
Course Type		Major				
Teaching Scheme				Examination Scheme		
Credits	L	S	Total	CCE	SEE	Total
3	2	1	3	19/37	19/38	75

CCE: Continuous and Comprehensive Evaluation including 20% of Attendance, 80 % of Sincerity in attending classes/class tests/ timely submissions of assignments/self-learning attitude/solving advanced problems/periodic assessment conducted by institute.

The minimum passing head is 50%, it is rounded to 19 marks to avoid "E&O" arising due to decimal value.

SEE: Sem End Evaluation: Theory Exam or Jury/viva on practical skills learned in course. In case of theory exams the question paper of minimum 50 marks (2hrs) will be drawn for evaluation.

Prerequisite (if any): - NA

List of Courses where this course will be prerequisite: - This course forms the legal foundation for all aspects and scales of urban and regional planning in India. It is integral to understanding planning procedures, implementation mechanisms, and regulatory frameworks across subjects. The legal insights gained here are essential for informed decision-making and effective policy application. Most importantly, it prepares students for responsible and compliant professional planning practice.

Rationale: - A sound understanding of legal frameworks is crucial for implementing and regulating planning proposals at all scales. This course equips students with knowledge of planning acts, development regulations, and governance systems in India. Such legal literacy is vital for ensuring professionally sound and enforceable planning practices.

Content:

Sr. No.	Description	No. of Hours
Unit 1	Introduction to basic concepts of urban legislation and governance: - Evolution of planning legislation in India - An overview of legal tools connected with urban planning and development, Town and country planning act. - Economic concept of land, economic principles of land use, economic rent land use pattern and land values, location economics. - Registration of land and land record procedure, factors influencing land value - assessment and prediction of land value and its prices, economics of Town Planning decisions effects of legislation on land development and urban land economics. - Institutions and Urban planning, Typology of institutions, their role, powers and significance, formal and informal institutions, their interface, conflicts, classified work, and their effectiveness in planning, Analysing the	12

	institutions- Methods, process and evaluation.	
Unit 2	Urban Legislation and Land regulations • Introduction to laws, basic concepts - law, legislation, ordinance bill, act, regulations and bye-laws - sources of law, Judiciary, legislature and executive powers and rule of law - its relationship to urban planning. Hierarchical System of governance and planning, Central, State and Urban Local Bodies. • Legislation related to use and control of land -Land Acquisition Act of 1894-2013 –Interpretation of LAA in recent times, Betterment charges and compensation provisions in various planning laws and judicial precedents. Valuation of real estate - concept of ownership - rights and associated features. • Legislation controlling use of land parcels like non-agricultural permissions, building permission - use of permissions, etc. Significance of land development control objectives and legal tools. BPMC, GTPUD acts would be covered under this section. • Zoning law relating to slum clearance, housing, landscape and traffic. Approach for formulating rules and bye-laws Policies, laws, acts pertaining to urban land, ceiling on urban and property, urban land (ceiling and regulations) act, 1976 - differences in the interpretation across the states and important provision, problems.	12
Unit 3	Housing and Planning regulations and laws • Housing related legislation – residential cooperative housing societies - other forms like non-trading corporations -Slums related legislation, commonalities and variations across the Indian states, important sections - their implications, Planning law and the poor. • Legislation on related to property transactions, (Transfer of Property Act, Income Tax related, etc.), Detailed understanding of Urban Planning and Development Authorities Acts – Procedures and methodology of preparation and implementation of regional plans. • Legislation relating to urban conservation and restoration, heritage, architecture - archaeological sites—and remains of National importance. • Environmental Laws and Urban Planning - National Environmental Policy Act Pollution Control Acts - Air, Water and EP Acts - A critical appraisal – Urban Environment and related regulations – wetlands, GRZ, etc.– Sustainable Urban development – Problems and Prospects	12
Unit 4	Latest Trends in Urban Planning and Legislation • Characteristics and features of modern urban planning – Impact on urban legislation – detailed account of amendments and modifications - modern urban governance – forms and structures. • 73rd and 74th Constitutional amendments - environment and the modified role and functions of local bodies, local authorities, district - authorities and state level agencies - The institutional frame and mechanism for urban governance as envisaged in 73rd and 74th CAA -Transfer of Power from Centre to State and State to Local government - role of the existing	12

	planning and development agencies in various states. • Role of various institutions in the process of governance and access to government by various stakeholders. Redefined role of other Stakeholders - NGOs, Private Sector, Scientific Network and international institutions – Role of donor agencies - Advanced Locality Management, Resident Welfare Associations, elite groups, industrial and commerce chambers as pressure groups – their role in governance system. • Role of People's participation in planning process - inclusion and exclusion in urban governance - E- Governance and Grievances Redressal system	
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Suggested Specification table for Evaluation:

Distribution of Evaluation					
R Level	U Level	A Level	N Level	E Level	C Level
20%	20%	5%	20%	20%	15%

Legends: R: Remembrance. U: Understanding; A: Apply, N: Analyze. E: Evaluate C: Create and above Levels (Revised Bloom's Taxonomy)

Note: This specification table shall be treated as a general guideline for students and teachers. The actual distribution of marks in the Final Evaluation may vary slightly from above table.

Reference Books:

Sr No	Title of book /article	Author(s)	Publisher and details like ISBN	Year of publication	Publication Edition
1	Environment Protection Act, 1986	Parliament of India	Gazette of India; Ministry of Environment and Forests	1986	Bare Act
2	Real Estate (Regulation and Development) Act, 2016 (RERA)	Parliament of India	Ministry of Housing and Urban Affairs	2016	Bare Act
3	Maharashtra Regional and Town Planning (MRTP) Act / Goa TCP Act	State Legislature (MH/Goa)	Government Central Press (Mumbai/Panaji)	1966 / 1974	State Act
4	Right to Fair Compensation and Transparency in Land Acquisition, Rehabilitation and Resettlement Act	Parliament of India	Ministry of Law and Justice; Gazette of India	2013	Bare Act
5	The Bombay Provincial Municipal Corporations Act, 1949	Bombay State Legislature	Government Central Press; (Now Maharashtra/Gujarat Acts)	1949	State Act
6	The Gujarat Housing Board Act, 1961	Gujarat State Legislature	Government of Gujarat, Gandhinagar	1961	State Act
7	The Gujarat Municipal Finance Board Act, 1979	Gujarat State	Government of Gujarat,	1979	State Act

		Legislature	Gandhinagar		
8	The Gujarat Slum Areas (Improvement, Clearance and Redevelopment) Act, 1976	Gujarat State Legislature	Government of Gujarat, Gandhinagar	1976	State Act
9	The Gujarat Regularization of Unauthorised Development Act, 2001 (GRUDA)	Gujarat State Legislature	Government of Gujarat, Gandhinagar	2001	State Act
10	The Gujarat Municipalities Act, 1963	Gujarat State Legislature	Government of Gujarat, Gandhinagar	1963	State Act

Course Outcomes:

Sr. No.	CO statement	Marks % weightage
CO-1	Understand the legal framework of urban planning in India: Gain a comprehensive understanding of the key laws and regulations that govern urban planning, land development, and local governance in India, with a specific focus on statutory authority in the Indian context.	25%
CO-2	Analyze land use control and urban development regulations in India: Explore the legal aspects of land use control, zoning laws, and building regulations in Indian cities, and assess their impact on urban growth, sustainability, and development challenges.	25%
CO-3	Examine financial mechanisms for urban planning in India: Study the financial frameworks and funding mechanisms that support urban planning and development in India, including municipal finance, urban development funds, and the role of both central and state government resources.	25%
CO-4	Evaluate the role of statutory bodies and local governance in urban development: Understand the role of statutory authorities such as development authorities, municipal corporations, and urban local bodies in regulating and implementing urban planning, and assess their influence on land development and governance in Indian cities.	25%

List of Open learning website:

- A. NPTEL (National Programme on Technology Enhanced Learning)
Website: <https://nptel.ac.in>
- B. MIT OpenCourseWare – Urban Studies and Planning
Website: <https://ocw.mit.edu/courses/urban-studies-and-planning>

- A. India Code Portal – for accessing laws, acts, and regulations related to urban planning and governance.

List of Exercises:

Sr. No.	Studio Exercises / Assignments for CCE
1	Analyze the evolution and impact of a state-specific urban planning act (e.g., GTPUD Act) on land development and governance
2	Compare land acquisition and compensation mechanisms under the 1894 and 2013 Acts using case law and real-world examples.
3	Evaluate the role of institutions and stakeholder groups in urban governance post-74th Constitutional Amendment through a case study approach

Year: M.Arch. (UD) I (Semester II)

MITRAJ SARVAJANIK INSTITUTE OF DESIGN, PLANNING & TECHNOLOGY						
Faculty		FADPT			Programme	M.Arch. (UD)
Year		I			Version	1.0
Semester		II			Effective From	June 2025
Course Code		MFGN12202			Course Name	Transportation Planning & Urban Mobility
Course Type		Minor				
Teaching Scheme				Examination Scheme		
Credits	L	S	Total	CCE	SEE	Total
2	1	1	2	13/25	13/25	50

CCE: Continuous and Comprehensive Evaluation including 20% of Attendance, 80 % of Sincerity in attending classes/class tests/ timely submissions of assignments/self-learning attitude/solving advanced problems/periodic assessment conducted by institute.

The minimum passing head is 50%, it is rounded to 13 marks to avoid "E&O" arising due to decimal value.

SEE: Sem End Evaluation: Theory Exam or Jury/viva on practical skills learned in course. In case of theory exams the question paper of minimum 50 marks (2hrs) will be drawn for evaluation.

Prerequisite (if any): - NA

List of Courses where this course will be prerequisite: - This course provides essential foundational knowledge for all advanced planning subjects, including Town Planning Scheme, Development Plan, and regional planning at various scales practiced in India. It equips students with the analytical and strategic tools required for effective mobility planning. The insights gained are crucial for developing a well-informed transportation planning thesis. Most importantly, it prepares students for competent and impactful professional practice in the field.

Rationale: - The emphasis of the course is to develop a comprehensive understanding about the significant role of transport planning in the overall development process. The course introduces the integral relationship between land-use and transportation, basic principles, tools, techniques and analysis required for transportation planning, various factors affecting transportation planning decisions and impact of these transport decisions at various scales. The course further focuses on understanding various challenges-issues as well as approaches involved in designing sustainable transportation systems that are high performing, cost-effective, and resource-efficient.

Content:

Sr. No.	Description	No. of Hours
Unit 1	Understanding Interrelationship of Transportation & Land Use Basics of Transport and Transportation Planning: Role of transport in urban development, Transport and economic growth, A "System" perspective on transportation, Land use and mobility patterns in cities; Implications of land use patterns on transport and mobility; Land use and transport decisions; Need for sustainable development and sustainable transport; Need and benefits of land use transport integration; Case cities of land use-transport integration.	8



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Master of Architecture (Urban Design)



Unit 2	Urban transport planning and modelling: Transport planning process and modelling, scenario building and their analysis, Techniques for urban structures analysis, Transportation Planning Process and analytical techniques, Urban travel characteristics, Area delineation, Zoning (TAZ); Travel demand forecasting, Four Stage Planning Process: Trip generation, Trip distribution, Modal choice, and Route assignment. Transport survey and studies: Study area definitions, survey and their types, sampling methods, survey techniques, programming and processing of travel data, analysis and interpretation of traffic studies. Use of TRANSCAD/CUBE/VISSIM in intercity transport modelling	8
Unit 3	Traffic Impact of Land Principles of traffic impact analysis; Land development attributes; Traffic generation rates of different land uses; and development impact on traffic congestion on road segments, intersections and parking; Impact on public transportation, pedestrian traffic, and safety.	8
Unit 4	Transit Oriented Development (TOD) Transit Oriented Development: Definition, concepts and key components; Principles of TOD; Planning norms and standards of TOD; Pre-requisites of TOD; Financing of TOD; Role of stakeholders; Case studies of TOD; Case Studies on Land use-Transport Integration; Best practices of Land use transport integration in India and abroad; Inter- disciplinary policy issues and public action for guiding land use transport integration; Corridor and emergence of small towns and villages.	8

Suggested Specification table for Evaluation:

Distribution of Evaluation					
R Level	U Level	A Level	N Level	E Level	C Level
10%	20%	20%	20%	10%	20%

Legends: R: Remembrance, U: Understanding; A: Apply, N: Analyze, E: Evaluate C: Create and above Levels (Revised Bloom's Taxonomy)

Note: This specification table shall be treated as a general guideline for students and teachers. The actual distribution of marks in the Final Evaluation may vary slightly from above table.

Reference Books:

Sr No	Title of book /article	Author(s)	Publisher and details like ISBN	Year of publication	Publication Edition
1	Traffic Engineering and Transport Planning	Kadiali, L.R.	Khanna Publishers, Delhi; ISBN: 978-8174092205	1999	1st Edition
2	National Transit Oriented Development (TOD) Policy	Ministry of Housing and Urban Affairs	Government of India, New Delhi	2017	Policy Document
3	Developing Economic	Prabir De and	Asian	2014	1st Edition



	Corridors in South Asia	Kavita Iyengar	Development Bank, Manila; ISBN: 978-9292548247		
4	The Role of Transport and Transit Corridors in Fostering International Cooperation...	UN-HABITAT	UN-HABITAT, Nairobi	2015	Recommendations Report
5	How does transportation facilitate regional economic development? A heuristic mapping...	Ramesh, P., Bertolini, L., & Brommelstroet, M.	Transport Reviews / Elsevier; ISSN: 0144-1647	2023	Journal Article
6	Enhancing station level Direct-Demand models with Multi-Scalar accessibility indicators	Luis Enrique Ramos-Santiago	Transportation Research Part D: Elsevier; ISSN: 1361-9209	2023	Journal Article
7	Effective Transit Transport Corridor Development and Management: Report on Best Practices	UN-OHRLLS	United Nations, New York	2020	Best Practices Report
8	Code of Practice: Part I-V (Urban Transport)	Institute of Urban Transport (India)	Ministry of Urban Development, Government of India	2012	Standard Guidelines
9	Regional Development and Planning	Jiwan J.	Rawat Publications, New Delhi; ISBN: 978-8131612057	2021	1st Edition

Course Outcomes:

Sr. No.	CO statement	Marks % weightage
CO-1	Upon the completion of this course, the students will be able to to appreciate the interface between transport corridors and its impact on land use development at regional level and how it triggers other corridors such as industrial, Investment, etc.	30%
CO-2	appreciate how to channelize the corridor development for orderly spatial development.	30%
CO-3	Recognize the need for integrated, inclusive and sustainable approach for transportation planning	20%
CO-4	Integrate the knowledge gained through this course in studio projects	20%

List of Open learning website:

- A. NPTEL (National Programme on Technology Enhanced Learning)
Website: <https://nptel.ac.in>
- B. MIT OpenCourseWare – Urban Studies and Planning
Website: <https://ocw.mit.edu/courses/urban-studies-and-planning>

List of Open Source Software:

- A. VISSIM Transportation Simulation Software

List of Exercises:

Sr. No.	Studio Exercises / Assignments for CCE
1	Best Practices in Urban Transportation System in India & Across the Globe
2	Existing Situation Analysis of Roads & Junctions
3	Proposal of Redesigning Road Stretch & Junction Design

Year: M.Arch. (UD) I (Semester II)

MITRAJ SARVAJANIK INSTITUTE OF DESIGN, PLANNING & TECHNOLOGY						
Faculty		FADPT		Programme		M.Arch. (UD)
Year		I		Version		1.0
Semester		II		Effective From		June 2025
Course Code		MFGN13203		Course Name		Urban Sociology
Course Type		Interdisciplinary / Multidisciplinary				
Teaching Scheme				Examination Scheme		
Credits	L	S	Total	CCE	SEE	Total
2	2	0	2	13/25	13/25	50

CCE: Continuous and Comprehensive Evaluation including 20% of Attendance, 80 % of Sincerity in attending classes/class tests/ timely submissions of assignments/self-learning attitude/solving advanced problems/periodic assessment conducted by institute.

The minimum passing head is 50%, it is rounded to 13 marks to avoid "E&O" arising due to decimal value.

SEE: Sem End Evaluation: Theory Exam or Jury/viva on practical skills learned in course. In case of theory exams the question paper of minimum 50 marks (2hrs) will be drawn for evaluation.

Prerequisite (if any): - NA

List of Courses where this course will be prerequisite: - NA

Rationale: - The course provides an insight into the social structures, behaviours and dynamics that shape urban life. By examining issues like segregation, inequality, migration, students gain tools to create more inclusive and socially responsive urban environments. This ensures that interventions are culturally and socially sustainable.

Content:

Sr. No.	Description	No. of Hours
Unit 1	Origin & development; Key concepts; Approaches in Urban Sociology and Scope	6
Unit 2	Urban economic processes-- Invasion, Succession, Concentration, Segregation; Models of Urban growth	8
Unit 3	Urban Religions – Rise; Difference between traditional and modern ways of worship; Cults, Economics of Religion	6
Unit 4	Informal settlements – Definitions; Reasons for informal settlements; Policy response to informal settlement	6
Unit 5	Small town cultures – Socio-economic forces in small towns; Changing aspirations	2
Unit 6	Poverty – Socio historical analysis; nature of urban poverty; changing Policy perspective	4

Suggested Specification table for Evaluation:

Distribution of Evaluation					
R Level	U Level	A Level	N Level	E Level	C Level
0%	15%	15%	40%	20%	10%

Legends: R: Remembrance, U: Understanding; A: Apply, N: Analyze, E: Evaluate C: Create and above Levels (Revised Bloom's Taxonomy)

Note: This specification table shall be treated as a general guideline for students and teachers. The actual distribution of marks in the Final Evaluation may vary slightly from above table.

Reference Books:

Sr No	Title of book /article	Author(s)	Publisher and details like ISBN	Year of publication	Publication Edition
1.	Urban Behaviour	Erikson, E Gordon	Macmillan Company, Delhi		
2.	Urban Sociology: Images and Structure	Flanagan. William	Rowman and Littlefield Publishers	2010	
3.	Urban Society	Gist, N. P.	Thomas Cromwell Company, New York	1974	
4.	The Urban World	Palen, John	Paradigm Publishers, Boulder, CO	2008	
5.	Urbanization and Urban Systems in India	Ramachandran, R.	Oxford India Paperbacks	1997	
6	Urban Sociology in India: Reader and Source Book	Rao, M. S. A.	Orient Longman, New Delhi	1974	
7	Oxford Handbook of Urbanization in India.	Shivaramakrishnan, K. C.	Oxford University Press, New Delhi.	2005	

Course Outcomes:

Sr. No.	CO statement	Marks % weightage
CO-1	Explain key theoretical approaches to Urban sociology and Urban development.	10%
CO-2	Describe how the experience of living in cities is different for different groups based on social & economic class, gender, caste, kinship, occupation, etc.	40%
CO-3	Understand urban life & local issues within an Indian context.	20%
CO-4	Become acquainted with the processes of urbanization, urban social institutions, urban problems & responses to arrest them.	30%

List of Open learning website:

- A. Swayam
- B. www.coursera.org
- C. www.edx.org

List of Open Source Software:

- A. www.openstreetmap.org
- B. www.r-project.org

List of Exercises:

Sr. No.	Studio Exercises / Suggestive Assignments for CCE
1	Analysing a public space through the lens of gender, caste, class and age
2	Compare causes, impacts, processes of gentrification in cities with socio-spatial consequences
3	Understand lived experiences of residents in a selected urban or rural neighbourhood
4	Analyzing public spaces, rural spaces and urbanism through the lens of feature films.

Year: M.Arch. (UD) I (Semester II)

MITRAJ SARVAJANIK INSTITUTE OF DESIGN, PLANNING & TECHNOLOGY						
Faculty		FADPT			Programme	M.Arch. (UD) I
Year		I			Version	1.0
Semester		II			Effective From	June 2025
Course Code		MFGN13204			Course Name	Urban Economics
Course Type		Interdisciplinary / Multidisciplinary				
Teaching Scheme				Examination Scheme		
Credits	L	S	Total	CCE	SEE	Total
2	2	0	2	13/25	13/25	50

CCE: Continuous and Comprehensive Evaluation including 20% of Attendance, 80 % of Sincerity in attending classes/class tests/ timely submissions of assignments/self-learning attitude/solving advanced problems/periodic assessment conducted by institute.

The minimum passing head is 50%, it is rounded to 13 marks to avoid "E&O" arising due to decimal value.

SEE: Sem End Evaluation: Theory Exam or Jury/viva on practical skills learned in course. In case of theory exams the question paper of minimum 50 marks (2hrs) will be drawn for evaluation.

Prerequisite (if any): - NA

List of Courses where this course will be prerequisite: - NA

Rationale: - Urban Economics is essential for understanding the spatial distribution of resources, labor, and capital within urban areas. It equips planners and policymakers with analytical tools to address urban growth, housing markets, transportation systems, and economic disparities, thereby fostering sustainable, efficient, and inclusive urban development strategies aligned with contemporary socio-economic dynamics.

Content:

Sr. No.	Description	No. of Hours
Unit 1	Urban Economy and Development: Introduction and Principles of urban economics, Analyzing the economic structure of cities, including industrial and residential locations, and the role of the informal sector, Agglomeration and Location Theory, Land Market economics, Public policies and market economics, Housing and real estate economics	8
Unit 2	Urban Labor Markets: Studying the dynamics of urban labor markets, including factors like inequality, poverty, and the impact of globalization. Urban Poverty and Inequality: Investigating the causes and consequences of urban poverty, as well as policies to address it.	8
Unit 3	Urban Governance and Local Government: Understanding the role of local governments in managing urban economies, including taxation, public finance, and service delivery, Urban and Regional Labour Markets, Sprawl and gentrification, Transportation economics, Poverty, underdevelopment and crime, Education, employment and development economics,	8

	Socio-economic measures of development.	
Unit 4	Urban Infrastructure: Analyzing the economic impacts of infrastructure investments, including transportation, housing, and utilities.	8

Suggested Specification table for Evaluation:

Distribution of Evaluation					
R Level	U Level	A Level	N Level	E Level	C Level
20%	20%	5%	15%	20%	20%

Legends: R: Remembrance, U: Understanding; A: Apply. N: Analyze. E: Evaluate C: Create and above Levels (Revised Bloom's Taxonomy)

Note: This specification table shall be treated as a general guideline for students and teachers. The actual distribution of marks in the Final Evaluation may vary slightly from above table.

Reference Books:

Sr No	Title of book /article	Author(s)	Publisher and details like ISBN	Year of publication	Publication Edition
1	Order Without Design: How Markets Shape Cities	Alain Bertaud	MIT Press; ISBN: 978-0262038768	2018	1st Edition
2	Urbanization and Growth	Michael Spence, P.C. Annez, & R.M. Buckley	World Bank Publications; ISBN: 978-0821375730	2009	Commission on Growth and Development
3	Principles of Microeconomics	N. Gregory Mankiw	South-Western Cengage Learning; ISBN: 978-0324589986	2009	5th Edition
4	Cities and Agglomeration Externalities: Lessons for Urban Public Policy	Prasanna K. Mohanty and Alok K. Mishra	SAGE Publications India; ISBN: 978-8132111009	2014	1st Edition
5	Cities as Engines of Inclusive Development	IIHS Team	Indian Institute for Human Settlements (IIHS)	2014	Case study / Report
6	The City as a Growth Machine: Toward a Political Economy of Place	Harvey Molotch	American Journal of Sociology (AJS)	1976 (Reprint 2013)	AJS Vol. 82, No. 2
7	India Habitat III: National Report 2016	MoHUPA	Ministry of Housing and Urban Poverty Alleviation, GoI	2016	National Report
8	The Economic Role of Cities	UN-Habitat	United Nations Human Settlements Programme	2011	Global Report
9	The Economics of Urban Form: A Literature	UN-Habitat	United Nations Human Settlements	2015	Working Paper Series

	Review		Programme		
10	Urban and Regional Economics	McCann, Philip	Oxford University Press; ISBN: 978-0198776450	2001	1st Edition
11	Urban Economics	O'Sullivan, Arthur	McGraw-Hill/Irwin; ISBN: 978-0072487558	2003	5th Edition

Course Outcomes:

Sr. No.	CO statement	Marks % weightage
CO-1	Students should be able to apply economic principles to understand urban problems and challenges.	40%
CO-2	They should be able to analyze urban data and use analytical tools to develop policy recommendations.	30%
CO-3	They should be able to communicate effectively about urban economic issues and contribute to the development of sustainable urban policies	30%

List of Open learning website:

- A. NPTEL (National Programme on Technology Enhanced Learning)
Website: <https://nptel.ac.in>
- B. MIT OpenCourseWare – Urban Studies and Planning
Website: <https://ocw.mit.edu/courses/urban-studies-and-planning>

List of Open Source Software:

- A. UrbanSim
- B. R commander

List of Exercises:

Sr. No.	Studio Exercises / Assignments for CCE
1	Book Review - Order Without Design by Alain Bertaud
2	Case Study of Urban Agglomeration & Its Economic Activities & Growth.
3	Examine Thematic Economical Aspects in Your City using urban economics theories

Year: M.Arch. (UD) I (Semester II)

MITRAJ SARVAJANIK INSTITUTE OF DESIGN, PLANNING & TECHNOLOGY						
Faculty		FADPT		Programme	M.Arch. (UD)	
Year		I		Version	1.0	
Semester		II		Effective From	June 2025	
Course Code		MFEL14201		Course Name	Professional Elective 1	
Course Type		Ability Enhancement				
Teaching Scheme				Examination Scheme		
Credits	L	S	Total	CCE	SEE	Total
2	2	0	2	13/25	13/25	50

CCE: Continuous and Comprehensive Evaluation including 20% of Attendance, 80 % of Sincerity in attending classes/class tests/ timely submissions of assignments/self-learning attitude/solving advanced problems/periodic assessment conducted by institute.

The minimum passing head is 50%, it is rounded to 13 marks to avoid “E&O” arising due to decimal value.

SEE: Sem End Evaluation: Theory Exam or Jury/viva on practical skills learned in course. In case of theory exams the question paper of minimum 50 marks (2hrs) will be drawn for evaluation.

Prerequisite (if any): - NA

List of Courses where this course will be prerequisite: - NA

Rationale: - Professional electives are structured to provide students with the opportunity to explore specialized areas of interest beyond the core curriculum, focusing on skill enhancement, thereby deepening their knowledge and competency in targeted domains. These electives emphasize flexibility and individual choice, allowing students to align their academic journey with personal career aspirations and evolving industry dynamics. By engaging with advanced topics, emerging trends and technologies, and real-world applications, students enhance their creative thinking, technical proficiency, and professional preparedness. The rationale for integrating professional electives lies in fostering a learner-centered approach that promotes adaptability, innovation, learner autonomy, skill enhancing engagements, and the integration of academic inquiry with evolving industry standards, practices and expectations

Content:

Sr. No.	Description	No. of Hours
A	Geo-Spatial Techniques This course provides an in-depth understanding of geo-spatial technologies and their critical role in urban and regional planning. Students will explore the application of Geographic Information Systems (GIS), Remote Sensing (RS), Global Navigation Satellite Systems (GNSS), and spatial data analytics in planning processes. Emphasis is placed on data acquisition, processing, analysis, and visualization techniques to support evidence-based decision-making. The course integrates practical exercises using open-source and proprietary GIS software to build proficiency in spatial analysis, land use mapping, suitability analysis, and urban monitoring. Indian case studies—ranging from AMRUT GIS-based Master Plans to smart city dashboards—highlight the evolving role of geo-spatial tools in policy formulation and project implementation. Global best practices such as digital twins, real-time urban observatories, and AI-driven spatial analysis are also introduced to broaden the student’s perspective. The course fosters technical skills	32

	along with critical thinking, enabling students to effectively apply geo-spatial techniques in solving complex urban challenges.	
B	Built Form and Regulations This course explores the complex relationship between built form and regulatory frameworks that shape urban environments. It delves into the historical evolution, contemporary applications, and critical evaluation of building regulations, development control rules, and urban design guidelines. Emphasis is placed on understanding how regulatory instruments influence the physical fabric, density, land use patterns, and livability of cities. Students will analyze case studies from Indian cities while benchmarking against global best practices in form-based codes, zoning innovations, and inclusive design standards. The course aims to build competency in interpreting and drafting regulatory tools that support sustainable, equitable, and context-sensitive urban development. The Indian legal, administrative, and institutional frameworks—such as DCRs, Master Plans, and building bye-laws—will be critically examined in relation to ground realities and implementation challenges. The course encourages analytical thinking and practical application through assignments and studio-based exercises that simulate real-world planning scenarios.	32
C	Inclusive Urban Planning Inclusive Urban Planning emphasizes the integration of marginalized communities into the urban planning process, ensuring that all residents, regardless of socio-economic status, gender, disability, or ethnicity, have equal access to urban resources and opportunities. The course will focus on global trends in inclusive design and planning, examining how cities can adapt to provide equitable access to housing, transportation, education, and healthcare. The course will look at key strategies such as participatory planning, gender-sensitive urban design, social sustainability, and policies aimed at reducing inequality. In the Indian context, urbanization has exacerbated socio-economic disparities, leading to significant challenges for planning for marginalized groups. This course will explore government initiatives such as the Smart Cities Mission and the Pradhan Mantri Awas Yojana (PMAY), assessing their success in promoting inclusivity. Case studies of inclusive urban planning from both developed and developing countries will be analyzed, with a focus on participatory governance models, slum rehabilitation projects, and the integration of differently-abled individuals in urban spaces.	32

Suggested Specification table for Evaluation:

Distribution of Evaluation					
R Level	U Level	A Level	N Level	E Level	C Level
-	20%	30%	30%	10%	10%

Legends: R: Remembrance, U: Understanding; A: Apply, N: Analyze, E: Evaluate C: Create and above Levels (Revised Bloom's Taxonomy)

Note: This specification table shall be treated as a general guideline for students and teachers. The actual distribution of marks in the Final Evaluation may vary slightly from above table.

Reference Books:

Sr No	Title of book /article	Author(s)	Publisher and details like ISBN	Year of publication	Publication Edition
<i>Note - The respective course faculty will determine and recommend reference materials according to the specific requirements of the course content.</i>					

Course Outcomes:

Sr. No.	CO statement	Marks % weightage
CO-1	Foster a mindset of continuous self-improvement, adaptability, and resilience, aligning professional development with personal interests, inclinations, and career aspirations within the core domain.	25%
CO-2	Evaluate professional, ethical, and sustainability considerations in decision-making within the selected domain of study.	25%
CO-3	Communicate ideas, processes, and outcomes effectively using discipline-appropriate methods, both independently and collaboratively, and encourage adaptability and continuous growth.	25%
CO-4	Create innovative, sustainable, and context-sensitive solutions or projects informed by current global and local practices.	25%

List of Open learning website:

- A. NPTEL - Swayam
- B. Coursera
- C. IIRS - Outreach Program

List of Open Source Software:

- A. QGIS
- B. Autocad

List of Exercises:

Sr. No.	Studio Exercises / Assignments for CCE
<i>Exercises / Assignments will be allotted by Respective Faculties</i>	

Year: M.Arch. (UD) II (Semester III)

MITRAJ SARVAJANIK INSTITUTE OF DESIGN, PLANNING & TECHNOLOGY						
Faculty	FADPT			Programme	M.Arch. (UD)	
Year	II			Version	2.0	
Semester	III			Effective From	June 2026 (For all batches admitted 2025 onwards)	
Course Code	MRUD21301	Course Name		Urban Transformation Studio		
Course Type	Major			-		
Teaching Scheme				Examination Scheme		
Credits	L	S	Total	CCE	SEE	Total
8	-	8	8	50/100	50/100	200

CCE: Continuous and Comprehensive Evaluation including 20% of Attendance, 80 % of Sincerity in attending classes/class tests/ timely submissions of assignments/self-learning attitude/solving advanced problems/periodic assessment conducted by institute.

SEE: Sem End Evaluation: Theory Exam or Jury/viva on practical skills learned in course, In case of theory exams the question paper of minimum 50 marks (2hrs) will be drawn for evaluation.

Prerequisite: - As per semester progression rule of Sarvajani University / promotion eligibility.

List of Courses where this course will be prerequisite: NA

Rationale: - Urban Transformation can be understood as a participatory act performed to stimulate community involvement in order to create social awareness regarding urban issues. The interventions can be Performative, Social, Political and Spatial and the studio aims at developing a holistic understanding in a student to weave all the above processes of intervention as a part of the approach to address transformation issues at Spatial Intervention level. The studio emphasis is to expose students to the larger idea of City and 'Urban' not just as a product but as a complex and dynamic process.

Content:

Urban areas in developing economies face major spatial challenges with a long-lasting impact on urbanization process. The drivers for urban transformation are manifold and include technological change and digitalization, migration and demographic shifts, climate change, increasing relevance of agglomeration economies as well as post- and re-industrialization. Spatial implications of structural change and the organization of such transformation demand for deliberate strategies to revitalize the traditional manufacturing cores. These include a wide range of new forms of interventions such as social innovation, governance, resilience, urban laboratories and urban strategy.

This arm of the studio examines that in the process of growth and change a number of areas, buildings and open spaces become obsolete and the city offers a fantastic opportunity for renewal/ restructuring of such areas. This Studio focuses on Urban transformation and how in the process of transformation, the present urban 'development' which is labelled as characterless and undifferentiated can be made specific and rooted.

The collaborative approach for this studio will address the issues of equity, rights of the city, and implementation mechanisms in the economic and political situations and most importantly the future of urban development. It intends to encourage the future cities idea with taking into consideration the current scenario and intervening in the best possible manner for creating a better living environment.

Sr. No.	Description	No. of Hours
Unit 1	Mechanisms of Urban Development Understanding the processes and forces shaping urban growth, including economic, social, and policy-driven dynamics. Students explore how to manage urban multiplicity and guide transformation toward inclusive and sustainable outcomes.	12
Unit 2	Global vs Local Paradigms Examining the tension between global urban trends and local cultural, social, and environmental contexts. The unit encourages critical responses that balance modernization with preservation of local identity.	12
Unit 3	Context, Sense of Place & Urban Character Investigating how urban form, history, and socio-cultural layers contribute to the identity of fragmented cities. Emphasis is placed on designing interventions that strengthen continuity, place-making, and character.	40
Unit 4	Rethinking Neighbourhoods & Spatial Relationships Exploring evolving concepts of neighbourhood, public-private interfaces, and degrees of control and freedom in urban spaces. Students reinterpret these relationships to create adaptable, inclusive, and resilient urban environments.	52
Unit 5	Urban Designer as Activist Positioning the urban designer as a proactive agent of change who engages with communities, policies, and grassroots issues. The unit promotes advocacy-driven design approaches addressing equity, participation, and urban justice.	12

Suggested Specification table for Evaluation:

Distribution of Evaluation					
R Level	U Level	A Level	N Level	E Level	C Level
0%	20%	20%	15%	15%	30%

Legends: R: Remembrance, U: Understanding; A: Apply, N: Analyze, E: Evaluate C: Create and above Levels (Revised Bloom's Taxonomy)

Note: This specification table shall be treated as a general guideline for students and teachers. The actual distribution of marks in the Final Evaluation may vary slightly from above table.

Reference Books:

Sr. No.	Title of book /article	Author(s)	Publisher and details like ISBN	Year of publication	Publication Edition
1.	Emerging Concepts in Urban Design	Broadbent Geoffrey	Penguin, India	1997	
2.	Delirious New York: A Retroactive Manifesto for Manhattan	Koolhaas, Ram	The Monacelli Press	1997	
3.	Event-Cities	Tschumi, Bernard	The MIT Press	1994	
4.	Event Cities 2	Tschumi, Bernard,	The MIT Press	2001	
5.	Event Cities 3: Concept vs. Context vs. Content	Tschumi, Bernard,	The MIT Press	2005	
6	Event City 4: Concept-Form	Tschumi, Bernard,	The MIT Press	2010	
7	S, M, L, XL	Ram Khoolhaas,	The Monacelli Press		
8	Return to the Centre: Culture, Public Space, and City Building in a Global Era	Christian Norberg Schultz			



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SARVAJANIK UNIVERSITY
Faculty of Architecture, Design, Planning
and Technology
Master of Architecture (Urban Design)



9	Public Space Design and Social Cohesion: An International Comparison,	Patricia Aelbrecht and Quentin Stevens	Routledge	2019	1st Edition.
10	Urban Acupuncture	Christiane Crasemann Collins, George R. Collins, Camillo Sitte	Dover Publications	2006	1889 Edition

Course Outcomes:

Sr. No.	CO statement	Marks % weightage
CO-1	Project Initiation and Definition Students will be able to identify, initiate, and clearly define a project by establishing its objectives, scope, stakeholders, and expected outcomes within a given context.	20%
CO-2	Project Formulation and Design Students will develop the ability to formulate and organize projects by understanding the interrelationship between various aspects such as design, infrastructure, stakeholders, and regulatory agencies.	30%
CO-3	Analytical Reasoning and Judgement Based Decision Making Students will develop the ability to integrate analytical reasoning with informed judgment to make balanced, context-sensitive decisions in complex project scenarios.	15%
CO-4	Analyze and diagnose complexities of existing urban environments— including morphology, mobility, socio-economic dynamics, and ecological systems—to generate a well-grounded urban design framework that informs a context-sensitive transformation proposal.	20%
CO-5	Project Phasing, Feasibility and Project Appraisal Students will be capable in preparing detailed project plans, including defining scope, sequencing activities, allocating resources, and determining the critical path for timely execution. Students will be able to evaluate the feasibility of projects through technical, economic, environmental, and social appraisal methods to support informed decision-making.	15%

List of Open learning website:

- A. <https://ocw.mit.edu/>
- B. <https://learn.unhabitat.org>
- C. <https://www.edx.org>



List of Open Source Software:

- A. <https://qgis.org>
- B. <https://www.ladybug.tools>
- C. <https://www.openstreetmap.org>
- D. <https://cityform.mit.edu/projects/urban-network-analysis-toolbox>

FOR STUDIO SESSIONS:

List of Exercises:

Sr. No.	Studio Exercises / Assignments for CCE
1	Urban Area Analysis with Mapping and Documentation of an identified area with necessary layers such as Land use, Built v/s Open, Road Network and Hierarchy, Green Space, Social Infrastructure, etc. along with Urban governance and Finance Mechanism. This has to be supported by Book readings & reviews, site visits and stakeholder meetings.
2	Site Identification and Site Analysis for an identified parcel of Land with proposed Programme for Urban Transformation / Re-Development.
3	Vision Formulation and Concept Design Exercise to develop the strategy for Urban Transformation.
4	Design Development with Master Plan and Block Level Design Intervention along with Urban Form Generation, Urban Design Character
5	Final Proposal – A holistic project proposal to demonstrate the understanding and design skills of the student in handling complex urban development issues
6	Project Financial Proposal, Phasing and Implementation mechanism; Preparation of DPR.

Year: M.Arch. (UD) II (Semester III)

MITRAJ SARVAJANIK INSTITUTE OF DESIGN, PLANNING & TECHNOLOGY						
Faculty	FADPT			Programme	M.Arch. (UD)	
Year	II			Version	2.0	
Semester	III			Effective From	June 2026 (For all batches admitted 2025 onwards)	
Course Code	MRUD21302	Course Name		Urban Conservation		
Course Type	Major					
Teaching Scheme				Examination Scheme		
Credits	L	S	Total	CCE	SEE	Total
3	2	1	3	19/37	19/38	75

CCE: Continuous and Comprehensive Evaluation including 20% of Attendance, 80 % of Sincerity in attending classes/class tests/ timely submissions of assignments/self-learning attitude/solving advanced problems/periodic assessment conducted by institute.

The minimum passing head is 50%, it is rounded to 19 marks to avoid "E&O" arising due to decimal value.

SEE: Sem End Evaluation: Theory Exam or Jury/viva on practical skills learned in course. In case of theory exams the question paper of minimum 50 marks (2hrs) will be drawn for evaluation.

Prerequisite (if any): - NA

List of Courses where this course will be prerequisite: - NA

Rationale: - Heritage management is one of the key challenges of urbanization, historic cities are losing their identity due to rapid and fast pace changes in economic, social and political systems. Addressing this issue, urban conservation deals with identification, preservation, management and integration of heritage assets- natural, cultural and built, in the process of planning and development. The course in its broad terms provides an exposure to understand the large spectrum of urban heritage, ranging from conservation of a historical monument to renewal and rejuvenation of urban fabric to conservation of natural resources in the context of sustainability. In addition, cultural and economic dimensions are equally important as physical growth and development of any society is a direct reflection of people, their traditions, their skills and their value system. It also includes the Acts and Laws, Policy and programmes, that recognizes conservation/regeneration of historic areas/cities, heritage toolkit and legal framework to achieve the aims of urban conservation.

Content:

Sr. No.	Description	No. of Hours
Unit 1	- Understanding Heritage, Urban Heritage and its classification - Introduction to the concepts of Heritage Conservation and Management, Historic cities and Historic Urban Landscapes, while emphasizing the importance of conservation in achieving sustainable and inclusive cities. - Heritage conservation perspective: conservation principles and value-based approach of conservation	12

Unit 2	- Conservation concepts, methods, techniques, processes and divergent approaches - Criteria for listing heritage buildings, methodology of listing and grading of heritage buildings - Problems and issues confronting historic core and urban areas, planning interventions	12
Unit 3	- Legal and policy frameworks: - Overview of National Conservation Policy for Monuments, Archaeological sites and remains, Protected by Archaeological Survey of India, May 2013, Archaeological Survey of India. New Delhi. - National regulations guided by bodies like the Archaeological Survey of India, HRIDAY, PRASAD etc and other local development control regulations.	12
Unit 4	- World heritage, world heritage sites: protection and management - Introduction to international conventions International Charters pertaining to Area Conservation and Historic Cities - Role of UNESCO, ICOMOS in Heritage Conservation Management	12

Suggested Specification table for Evaluation:

Distribution of Evaluation					
R Level	U Level	A Level	N Level	E Level	C Level
10%	20%	25%	20%	15%	10%

Legends: R: Remembrance, U: Understanding; A: Apply, N: Analyze, E: Evaluate C: Create and above Levels (Revised Bloom's Taxonomy)

Note: This specification table shall be treated as a general guideline for students and teachers. The actual distribution of marks in the Final Evaluation may vary slightly from above table.

Reference Books:

Sr No	Title of book /article	Author(s)	Publisher and details like ISBN	Year of publication	Publication Edition
1.	Emerging Concepts in Urban Design	Broadbent Geoffrey	Penguin, India	1997	
2.	The Protection of Cultural Property – Handbook of National Legislation.	Burnham, Bonnie	The International Council of Museums.	1974	
3	Between two Earthquakes	Bernard, Fielden	ICCROM		



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4	Heritage interpretation, the Natural and Built Environment.	Davis Uzzel, L.	Belharm Press.	1989	
5	Conservation and Planning.	Allan Dobby.	London		
6	Urban Planning Conservation and Preservation.	Cohen Nahoum.	McGraw-Hill Education	2001	
7	Reshaping Urban Conservation: The Historic Urban Landscape Approach in Action.	Roders Ana, Bandarin Francesco	Springer Singapore	2019	
8	Urban conservation	Cohen Nahoum,	MIT Press	1999	

Course Outcomes:

Sr. No.	CO statement	Marks % weightage
CO-1	Understand and apply the concepts of heritage, cultural landscapes, and historic urban fabric, along with conservation principles such as authenticity, integrity, and cultural significance, to support sustainable, inclusive, and informed urban planning decisions.	25%
CO-2	Develop awareness and understanding of various types of heritage—tangible, intangible, natural, and mixed—and their cultural and environmental significance in the urban context.	25%
CO-3	Understand legal and policy frameworks for urban conservation, including international conventions, national programs such as those by Archaeological Survey of India, HRIDAY, PRASAD, and relevant local development control regulations.	25%
CO-4	Understand and apply the four R's—adaptive reuse, reconstruction, rehabilitation, and restoration—in urban conservation, considering economic viability, community participation, and global best practices to balance heritage preservation with contemporary development.	25%

List of Open learning website:

- A. <http://www.ihcn.in/publications.html>
- B. <http://unesdoc.unesco.org/images/0019/001907/190757e.pdf>
- C. http://graduateinstitute.ch/files/live/sites/iheid/files/sites/developpement/shared/developpement/md-ev/soutienauxcours0809/milbert_villes/Steinberg_96.pdf
- D. http://www.gfdrr.org/sites/gfdrr.org/files/Chapter_11_Cultural_Heritage_Conservation.pdf
- E. http://www.ihcn.in/pdf/Session-2/Presentation%202_Ann%20Jacob.pdf
- F. http://www.getty.edu/conservation/our_projects/field_projects/historic/experts_mtg_mar09.pdf
- G. <http://cpwd.gov.in/Publication/ConservationHertBuildings.pdf>



List of Open Source Software:

- A. Bhuvan (ISRO)
- B. India-WRIS (Water Resources Information System)
- C. MOSDAC (Meteorological and Oceanographic Satellite Data Archival Centre)
- D. QGIS
- E. OpenStreetMap (OSM)

List of Exercises:

Sr. No.	Studio Exercises / Suggestive Assignments for CCE
1	Article/research paper reading and review
2	Case Study of best practices for Urban Conservation and Heritage Management
3	Seminar Presentation on given topics
4	Studio exercise to address real scale issues and projects



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Year: M.Arch. (UD) II (Semester III)

MITRAJ SARVAJANIK INSTITUTE OF DESIGN, PLANNING & TECHNOLOGY						
Faculty	FADPT			Programme	M.Arch. (UD)	
Year	II			Version	1.0	
Semester	III			Effective From	June 2026 (For all batches admitted 2025 onwards)	
Course Code	MFGN11301	Course Name		Project Planning & Development Finance		
Course Type	Major			-		
Teaching Scheme				Examination Scheme		
Credits	L	S	Total	CCE	SEE	Total
3	2	1	3	19/37	19/38	75

CCE: Continuous and Comprehensive Evaluation including 20% of Attendance, 80 % of Sincerity in attending classes/class tests/ timely submissions of assignments/self-learning attitude/solving advanced problems/periodic assessment conducted by institute.

The minimum passing head is 50%, it is rounded to 19 marks to avoid "E&O" arising due to decimal value.

SEE: Sem End Evaluation: Theory Exam or Jury/viva on practical skills learned in course. In case of theory exams the question paper of minimum 50 marks (2hrs) will be drawn for evaluation.

Prerequisite (if any): - As per semester progression rule of Sarvajani University /promotion eligibility.

List of Courses where this course will be prerequisite: - This course provides foundational knowledge of project formulation, management, and financial planning, essential for advanced urban and regional planning courses and topics practiced in India. It equips students with critical skills for project formulation, management, and financial planning, which are vital for conducting a planning thesis. Furthermore, it prepares students for informed and effective professional practice in the field, ensuring they can navigate complex planning projects with confidence.

Rationale: - This course is essential for building foundational skills in project formulation, management, and financial planning, which are critical for advanced urban and regional planning studies. It bridges theoretical knowledge with practical skills, enabling students to effectively design, manage, and finance planning projects. Additionally, it prepares students for professional practice, ensuring they can make informed decisions in real-world planning scenarios.

Content:

Sr. No.	Description	No. of Hours
Unit 1	PROJECT FORMULATION & APPRAISAL: Introduction to Project Appraisal, Project Cycle and Stages of Appraisal Relevance of Project in Metro urban region planning. Identification, project cycle. Urban Planning and project appraisal; Stages of Appraisals: Financial, Economic, Social, Institutional and Environmental appraisals. Sensitivity Analysis of each of these appraisals.	12





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Unit 2	DETAILED PROJECT REPORT (DPR): Definition of DPR, content in DPR: step by step process, Project Background, Feasibility study approach: (Pre-implementation stage, implementation stage, and post-implementation stage, types of surveys to be carried out for DPR, team mobilization for DPR making; Financial section of DPR: Fundamentals of audit, costing, and budgeting of urban planning related projects. Processes involved in financial planning, including the preparation and analysis of budgets, cost estimation, and financial audits. The role of stakeholder contributions in project financing and management, and strategies for managing emergency risk funds.	12
Unit 3	DEVELOPMENT FINANCE 1: Introduction to Development Finance Development Finance- approaches, concepts, components, process, credits rating, development authorities, SEZs and special purpose vehicles (SPV) in urban finance management. State and Municipal Finance Central Finance Commission (CFC) and State Finance Commission (SFC)- Constitution, Powers and Functions; Consolidated Fund (Central and State); Centrally Sponsored Schemes; Municipal Finance-Categorisation of Municipal Sources of Revenue, Internal Vs. External Revenue, Capital Vs. Revenue Receipt; Municipal Finance Assessment Framework; Reforms in Municipal Finance- Unit Area Method in Property Tax Calculation, Rationalisation of User Charges; Streamlining Municipal Tax Administration.	12
Unit 4	DEVELOPMENT FINANCE 2: Public Private Partnership (PPP) Need, preconditions for Partnerships, advantages and methods of promoting participation, regulations and administrative procedures, role of government as regulator and enforcer, principles of ppp- contractual framework, selection of service provider, payment mechanism, monitoring and evaluation, risk and revenue sharing; regulatory authority for ppp; model contract agreement. Innovative Methods of Financing Urban Development Monetary exaction- betterment levy, impact fee, external development charges and vacant land development tax; land exactions- tdr, town planning scheme , monetisation of underutilised public assets; valorisation charges; external finance- debt financing, ppp, financial intermediaries, municipal bond, pooled finance.	12



Suggested Specification table for Evaluation:

Distribution of Evaluation					
R Level	U Level	A Level	N Level	E Level	C Level
20%	25%	5%	25%	20%	5%

Legends: R: Remembrance. U: Understanding; A: Apply, N: Analyze, E: Evaluate C: Create and above Levels (Revised Bloom's Taxonomy)

Note: This specification table shall be treated as a general guideline for students and teachers. The actual distribution of marks in the Final Evaluation may vary slightly from above table.

Reference Books:

Sr No	Title of book /article	Author(s)	Publisher and details like ISBN	Year of publication	Publication Edition
1	Guide to Practical Project Appraisal: Social Benefit-Cost Analysis in Developing Countries	Hansen, J. R.	UNIDO, Vienna / United Nations: ISBN: 978-9211061437	1986	1st Edition
2	Project Appraisal Manual: Capacity Development of NCRPB	IPE and Tamil Nadu Infrastructure Services Limited	NCRPB, New Delhi; ADB Project 40545	2009	Technical Manual
3	Contemporary Issues in Development Finance	Joshua Yindenaba Abor, Charles K. D. Adjasi, Robert Lensink	Routledge, London; ISBN: 978-0367222475	2021	1st Edition
4	State Finance Commission Recommendations: A Comparative Analysis	PRIA Team	Participatory Research in Asia (PRIA), New Delhi	2018	Research Report
5	Decentralisation and Subsidiarity: Concepts and Frameworks for Emerging Economies	Ryan, Roberta and Ronald Woods	Forum of Federations, Ottawa, Ontario	2015	Occasional Paper Series
6	National Multidimensional Poverty Index: A Progress Review 2023	NITI Aayog	NITI Aayog, Government of India, New Delhi	2023	2nd Edition (Progress Review)

Course Outcomes:

Sr. No.	CO statement	Marks % weightage
CO-1	Initiate and define a project, Formulate and organize project, considering the interrelationship among various aspect/agencies, Develop a project plan, including scoping, sequencing tasks, and determining a critical path	20%
CO-2	Understand financial and technical aspects of project management, Assess, prioritize and manage project risk, Evaluate feasibility and carry out appraisal of a project through DRP.	15%
CO-3	Understand the concept of the issues & challenges in the Urban Development Sector, Develop skills required for urban development finance management	20%
CO-4	Integrate the optimization techniques for global best practices, Integrate the concept of the issues & challenges in PPP projects, Analyse the contracting process as applied in investment appraisal	20%

List of Open learning website:

- A. NPTEL (National Programme on Technology Enhanced Learning)
Website: <https://nptel.ac.in>
- B. e-PG Pathshala
Website: <https://epgp.inflibnet.ac.in>

List of Open Source Software:

- A. MSProject
- B. LibreOffice Calc (Spreadsheet Software)
- C. GanttProject (Project Management Software)

List of Exercises:

Sr. No.	Studio Exercises / Assignments for CCE
1	Detail Project Report - Exercises on Preparing DPR for selected Urban Development Project in Various Urban Settings
2	Financial Planning and Management - Exercises on Understanding National, State, City, Ward, Department & Program level Finance.



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Year: M.Arch. (UD) II (Semester III)

MITRAJ SARVAJANIK INSTITUTE OF DESIGN, PLANNING & TECHNOLOGY						
Faculty	FADPT			Programme	M.Arch. (UD)	
Year	II			Version	2.0	
Semester	III			Effective From	June 2026 (For all batches admitted 2025 onwards)	
Course Code	MRUD22303	Course Name		Space Culture & Urban Design		
Course Type	Minor			-		
Teaching Scheme				Examination Scheme		
Credits	L	S	Total	CCE	SEE	Total
2	1	1	2	13/25	13/25	50

CCE: Continuous and Comprehensive Evaluation including 20% of Attendance, 80 % of Sincerity in attending classes/class tests/ timely submissions of assignments/self-learning attitude/solving advanced problems/periodic assessment conducted by institute.

The minimum passing head is 50%. it is rounded to 13 marks to avoid "E&O" arising due to decimal value.

SEE: Sem End Evaluation: Theory Exam or Jury/viva on practical skills learned in course, In case of theory exams the question paper of minimum 50 marks (2hrs) will be drawn for evaluation.

Prerequisite (if any): - As per semester progression rule of Sarvajani University /promotion eligibility.

List of Courses where this course will be prerequisite: NA

Rationale: - Industrialization in 19th Century brought monumental changes to the City form and Human life, one of the main elements of this phenomenon was population explosion resulting in large-scale migration of people from rural areas to urban centres. The negative effects of industrialization were the fissures caused in the city fabric, architecture of the city changed and the quality of life was disturbed.

Even the most wealthy and progressive cities could not offer even elementary necessities of life; they remained as man-heaps, machine-warrens and not organs of human association. This adverse impact continues to haunt urban life even today. The emphasis of the course is to understand notion of space, the very fundamental element of locating human life that is subjected to change and new definitions. The course will try to understand this new urban structure and answer the questions in designing the built environment so as to identify and contain the very purpose of human life.

Content:

Students will be engaged into an investigative process to read and analyse urban areas and examine it for its human angles. This course will be conducted as series of discussions supported by case studies and observation and analysis of urban spaces, this will be based on the topic selected by students and the inclination of the group.

Sr. No.	Description	No. of Hours





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Unit 1	Industrialization and Transformation of Urban Space Understanding the impact of the Industrial Revolution on urban form, social structures, and living conditions. The unit examines migration, population explosion, and the fragmentation of cities into disconnected and inequitable environments.	8
Unit 2	Space, Culture and Human Experience Exploring the relationship between spatial design and human life through concepts like sense of place, identity, and cultural expression. Students analyze how urban spaces influence behavior, social interaction, and quality of life.	12
Unit 3	Reading, Interpreting and Reimagining Urban Structure Engaging in analytical and observational methods to study urban environments and propose context-sensitive interventions. Focus is on redefining urban space to restore human-centered values in contemporary cities.	12

Suggested Specification table for Evaluation:

Distribution of Evaluation					
R Level	U Level	A Level	N Level	E Level	C Level
0%	30%	20%	20%	20%	30%

Legends: R: Remembrance, U: Understanding; A: Apply, N: Analyze, E: Evaluate C: Create and above Levels (Revised Bloom's Taxonomy)

Note: This specification table shall be treated as a general guideline for students and teachers. The actual distribution of marks in the Final Evaluation may vary slightly from above table.

Reference Books:

Sr. No.	Title of book /article	Author(s)	Publisher and details like ISBN	Year of publication	Publication Edition
1.	Finding Lost Spaces: Theories of Urban Design.	Trancik, Roger	Van Nostrand Reinhold, New York	1986	
2.	The Social Logic of Space.	Hillier Bill, Hanson Jullian	Cambridge University Press	1984	
3.	The Image of the City	Kevin Lynch	MIT Press	1960	1 st Edition





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4.	The Death and Life of Great American Cities	Jane Jacobs	Random House (original); Vintage Books (later editions)	1961	Modern Library Edition
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Course Outcomes:

Sr. No.	CO statement	Marks % weightage
CO-1	Observation and Interpretation of Urban Life Students will be able to critically observe and document the nuances of urban life across diverse public spaces, interpreting spatial patterns, activities, and user interactions.	40%
CO-2	Understanding Human Behaviour and Urbanity Students will develop an understanding of human behaviour in public spaces and analyze its influence on the character, vitality, and quality of urban environments.	30%
CO-3	Human-Centric Urban Analysis Students will be able to synthesize observations and behavioral insights to evaluate urban spaces and become context-sensitive.	30%

List of Open learning website:

- <https://ocw.mit.edu/>
- <https://learn.unhabitat.org>
- <https://www.edx.org>

List of Open Source Software:

- <https://www.ladybug.tools>
- <https://www.openstreetmap.org>
- <https://cityform.mit.edu/projects/urban-network-analysis-toolbox>

List of Exercises:

Sr. No.	Studio Exercises / Assignments for CCE
1	Urban Space Mapping & Observation Select a public space (street, plaza, market) Map activities, movement patterns, and user groups; Document through sketches, photos, and notes. Outcome: Understanding <i>how people actually use space</i>





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2	Sensory Experience Documentation Visit an urban area and record: Sounds, smells, textures, light, movement Represent findings through diagrams or narrative sketches. Outcome: Developing human-centered perception of space
3	Case Study – Human-Centric Urban Space Study a successful urban space (global/local) Analyze: Design elements, Social interactions, Cultural relevance, Suggest improvements or reinterpretation. Outcome: Linking theory with real-world application



Year: M.Arch. (UD) II (Semester III)

MITRAJ SARVAJANIK INSTITUTE OF DESIGN, PLANNING & TECHNOLOGY						
Faculty	FADPT			Programme	M.Arch. (UD)	
Year	II			Version	1.0	
Semester	III			Effective From	June 2026 (For all batches admitted 2025 onwards)	
Course Code	MFGN15302	Course Name		Research Methodology		
Course Type	Skill Enhancement			-		
Teaching Scheme				Examination Scheme		
Credits	L	S	Total	CCE	SEE	Total
2	1	1	2	13/25	13/25	50

CCE: Continuous and Comprehensive Evaluation including 20% of Attendance, 80 % of Sincerity in attending classes/class tests/ timely submissions of assignments/self-learning attitude/solving advanced problems/periodic assessment conducted by institute.

The minimum passing head is 50%. it is rounded to 13 marks to avoid "E & O" arising due to decimal value.

SEE: Sem End Evaluation: Theory Exam or Jury/viva on practical skills learned in course. In case of theory exams the question paper of minimum 50 marks (2hrs) will be drawn for evaluation.

Prerequisite (if any): - As per semester progression rule of Sarvajani University /promotion eligibility.

List of Courses where this course will be prerequisite: - This course forms the foundational basis for all research-related components in urban and regional planning, urban design, infrastructure planning, environmental planning, and sustainable development. It equips students with essential skills for designing, conducting, and evaluating research. Research Methodology is a core ethical and academic competency required for a robust planning thesis. It is indispensable for informed, evidence-based professional practice in urban planning.

Rationale: - Sound research skills are critical for addressing complex urban issues through evidence-based planning. This course builds the methodological framework necessary for academic inquiry and professional decision-making. It ensures ethical, systematic, and credible research practices in planning and policy formulation.

Content:

Sr. No.	Description	No. of Hours
Unit 1	Introduction to Research in Urban Development - Nature and significance of research in urban development - Types of research: Basic, applied, action research - Ethical considerations and role of planners as researchers	8

Unit 2	Research Design and Approach - Research problem formulation and hypothesis development - Research objectives, questions, and scope - Qualitative, quantitative, and mixed-method approaches	8
Unit 3	Data Collection and Analysis - Primary vs. secondary data: tools and techniques - Sampling methods and survey design - Basics of qualitative tools (interviews, focus groups) and quantitative tools (questionnaires, statistics) - Introduction to data tabulation, coding, and interpretation	8
Unit 4	Report Writing and Presentation - Structure of a research report or thesis - Citation styles and avoiding plagiarism	8

Suggested Specification table for Evaluation:

Distribution of Evaluation					
R Level	U Level	A Level	N Level	E Level	C Level
20%	25%	5%	25%	20%	5%

Legends: R: Remembrance, U: Understanding; A: Apply, N: Analyze, E: Evaluate C: Create and above Levels (Revised Bloom's Taxonomy)

Note: This specification table shall be treated as a general guideline for students and teachers. The actual distribution of marks in the Final Evaluation may vary slightly from above table.

Reference Books:

Sr No	Title of book /article	Author(s)	Publisher and details like ISBN	Year of publication	Publication Edition
1.	Research Methodology: Methods and Techniques	Kothari, C.R. & Garg, G.	2019	4 th Edition	2019
2.	Research Design: Qualitative, Quantitative, and Mixed Methods Approaches	Creswell, John W.	2023	6 th Edition	2023
3.	Research Methods for Construction	Fellows, Richard & Liu, Anita M.M.	2021	5 th Edition	2021
4.	Research Methodology: A Step-by-Step Guide	Kumar, Ranjit	Sage Publication	2005	2 nd Edition



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	for Beginners				
5.	Social Research Methods: Qualitative and Quantitative Approaches	Neuman, W. Lawrence	Pearson Education	2021	8 th Edition
6.	Methods in Social Research	Goode, William J. & Hatt, Paul K.	McGraw Hill	1952	1 st Edition
7.	Social Research Methods	Bryman, Alan			
8.	Case Study Research and Applications: Design and Methods	Yin, Robert K.	Sage Publication	2018	6 th Edition
9.	Research Ethics and Guidelines (Policy Document)	Indian Council of Social Science Research (ICSSR)			

Course Outcomes:

Sr. No.	CO statement	Marks % weightage
CO-1	Understand and explain key research concepts, types, and ethical principles relevant to urban and regional development.	35%
CO-2	Formulate research problems, design research questions, and apply appropriate qualitative and quantitative methods.	35%
CO-3	Develop and present structured research proposals and reports using academic writing standards and basic data analysis tools.	30%

List of Exercises:

Sr. No.	Studio Exercises / Assignments for CCE
1	Research Problem Formulation - Students draft a clear research problem statement, objectives, and hypothesis based on a given urban planning issue.
2	Survey Design Exercise - Design a short questionnaire targeting a planning-related topic using appropriate question types and sampling methods.
3	Qualitative vs. Quantitative Comparison - Analyse a sample study to identify qualitative and quantitative elements and discuss their strengths and limitations.



4	Research Proposal Outline - Prepare a brief research proposal including title, background, objectives, methodology, and expected outcomes.
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Year: M.Arch. (UD) II (Semester III)

MITRAJ SARVAJANIK INSTITUTE OF DESIGN, PLANNING & TECHNOLOGY						
Faculty	FADPT			Programme	M.Arch. (UD)	
Year	II			Version	1.0	
Semester	III			Effective From	June 2026 (For all batches admitted 2025 onwards)	
Course Code	MFEL14301	Course Name		Professional Elective 2		
Course Type	Ability Enhancement			-		
Teaching Scheme				Examination Scheme		
Credits	L	S	Total	CCE	SEE	Total
2	2	0	2	13/25	13/25	50

CCE: Continuous and Comprehensive Evaluation including 20% of Attendance, 80 % of Sincerity in attending classes/class tests/ timely submissions of assignments/self-learning attitude/solving advanced problems/periodic assessment conducted by institute.

The minimum passing head is 50%, it is rounded to 13 marks to avoid "E&O" arising due to decimal value.

SEE: Sem End Evaluation: Theory Exam or Jury/viva on practical skills learned in course. In case of theory exams the question paper of minimum 50 marks (2hrs) will be drawn for evaluation.

Prerequisite (if any): - As per semester progression rule of Sarvajani University /promotion eligibility.

List of Courses where this course will be prerequisite: - NA

Rationale: - Professional electives are structured to provide students with the opportunity to explore specialised areas of interest beyond the core curriculum, focusing on skill enhancement, thereby deepening their knowledge and competency in targeted domains. These electives emphasise flexibility and individual choice, allowing students to align their academic journey with personal career aspirations and evolving industry dynamics. By engaging with advanced topics, emerging trends and technologies, and real-world applications, students enhance their creative thinking, technical proficiency, and professional preparedness. The rationale for integrating professional electives lies in fostering a learner-centered approach that promotes adaptability, innovation, learner autonomy, skill enhancing engagements, and the integration of academic inquiry with evolving industry standards, practices and expectations

Content:

Sr. No.	Description	No. of Hours
A	Participatory Planning Urban planners, urban designers and scholars of urban studies have acknowledged the potential of participatory planning since the 1960s. Today, the emphasis on participation increasingly permeates both academic conversations and policy debates. Participation is often invoked as a remedy; a universally applicable technique able to ensure equitable and fair outcomes in urban design and urban management. But participation is a tool rather than a goal and in the field planners and policy makers face many challenges to use it properly. What strategies are to be implemented in order to ensure the effectiveness of participatory techniques at all	32





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	scales remains an open question. This elective course will address these issues by demonstrating practical examples of different participatory theories and processes, across the world. It will also discuss the potentialities and challenges of participation in diverse contexts, by providing examples of projects. It will cover significant participatory planning processes from Africa, South Asia, and the Middle East, ranging from public space renewal to neighbourhood redevelopment.	
B	Disaster Management & Planning Disaster Management in urban planning focuses on preparing for, mitigating, and responding to natural and man-made disasters. This course will cover the principles of disaster risk reduction, emergency response, and recovery, emphasizing urban resilience and planning for post-disaster recovery. Students will learn about the disaster cycle—mitigation, preparedness, response, and recovery—and the role of planning in reducing vulnerability. The Indian context, with its vulnerability to a wide range of natural hazards such as floods, earthquakes, cyclones, and landslides, will be critically analyzed. The course will explore policies such as the National Disaster Management Policy and examine how cities like Chennai, Mumbai, and Delhi are integrating disaster management into their urban planning processes. The course will also focus on climate change adaptation strategies, with an emphasis on disaster-resilient infrastructure, community-based approaches, and the role of technology in early warning systems.	32
C	Tourism Planning & Management Tourism Planning and Management focuses on the development and management of tourism in urban and rural areas, ensuring that it contributes to economic growth while minimizing negative social and environmental impacts. The course will cover the principles of sustainable tourism development, including heritage tourism, eco-tourism, and community-based tourism. It will explore key planning strategies for integrating tourism with urban development, including infrastructure planning, transportation, accommodation, and visitor management. The course will analyze global best practices in tourism management, such as those implemented in cities like Barcelona and Paris, and will examine how these practices can be applied in the Indian context. Given India's rich cultural heritage, the course will explore how tourism can be a tool for promoting cultural preservation, economic empowerment, and social inclusion. Students will also examine the challenges of overtourism, overcrowding, and environmental degradation in popular tourist destinations in India like Jaipur, Agra, and Kerala.	32



Suggested Specification table for Evaluation:

Distribution of Evaluation					
R Level	U Level	A Level	N Level	E Level	C Level
-	20%	30%	30%	10%	10%

Legends: R: Remembrance, U: Understanding; A: Apply, N: Analyze, E: Evaluate C: Create and above Levels (Revised Bloom's Taxonomy)

Note: This specification table shall be treated as a general guideline for students and teachers. The actual distribution of marks in the Final Evaluation may vary slightly from above table.

Reference Books:

Sr No	Title of book /article	Author(s)	Publisher and details like ISBN	Year of publication	Publication Edition
<i>Note - The respective course faculty will determine and recommend reference materials according to the specific requirements of the course content.</i>					

Course Outcomes:

Sr. No.	CO statement	Marks % weightage
CO-1	Foster a mindset of continuous self-improvement, adaptability, and resilience, aligning professional development with personal interests, inclinations, and career aspirations within the core domain.	25%
CO-2	Evaluate professional, ethical, and sustainability considerations in decision-making within the selected domain of study.	25%
CO-3	Communicate ideas, processes, and outcomes effectively using discipline-appropriate methods, both independently and collaboratively, and encourage adaptability and continuous growth.	25%
CO-4	Create innovative, sustainable, and context-sensitive solutions or projects informed by current global and local practices.	25%

List of Open learning website:

- A. NPTEL - Swayam
- B. Coursera
- C. NIDM



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List of Open Source Software:

- A. UNEP (Massive Open Online Courses)
- B. UN Tourism

List of Exercises:

Sr. No.	Studio Exercises / Assignments for CCE
<i>Exercises / Assignments will be allotted by Respective Faculties</i>	



Year: M.Arch. (UD) II (Semester III)

MITRAJ SARVAJANIK INSTITUTE OF DESIGN, PLANNING & TECHNOLOGY						
Faculty	FADPT			Programme	M.Arch. (UD)	
Year	II			Version	1.0	
Semester	III			Effective From	June 2026 (For all batches admitted 2025 onwards)	
Course Code	MFEL16302	Course Name		Transdisciplinary Elective 1		
Course Type	Value Added Elective			-		
Teaching Scheme				Examination Scheme		
Credits	L	S	Total	CCE	SEE	Total
2	2	0	2	13/25	13/25	50

CCE: Continuous and Comprehensive Evaluation including 20% of Attendance, 80 % of Sincerity in attending classes/class tests/ timely submissions of assignments/self-learning attitude/solving advanced problems/periodic assessment conducted by institute.

The minimum passing head is 50%, it is rounded to 13 marks to avoid "E&O" arising due to decimal value.

SEE: Sem End Evaluation: Theory Exam or Jury/viva on practical skills learned in course. In case of theory exams the question paper of minimum 50 marks (2hrs) will be drawn for evaluation.

Prerequisite (if any): - As per semester progression rule of Sarvajani University /promotion eligibility.

List of Courses where this course will be prerequisite: - NA

Rationale: - Transdisciplinary Electives are structured to provide students to foster integrative thinking and holistic problem-solving skills essential for addressing the complexities of contemporary urban and built environments. Given the increasingly interconnected nature of societal, environmental, technological, and spatial challenges, this elective aims to bridge disciplinary silos by enabling students to engage with diverse knowledge systems, methodologies, and stakeholder perspectives. It encourages collaborative inquiry and innovation across fields such as urban planning, architecture, environmental studies, data science, policy, and social sciences, thereby cultivating a new generation of professionals equipped with adaptive, systems-oriented competencies aligned with sustainable and inclusive development goals.

Content:

Sr. No.	Description	No. of Hours
A	Real Estate Development & Management Intent of the elective course is to impart detailed knowledge of all aspects related to management of Real Estate Projects to train the students in Real Estate Project Managers. This subject provides students with skills and experience in synthesizing mixed-use real estate development projects. It addresses the interaction among design, finance, market and public policy factors. As potential professionals, or participants in the development process, students need to understand steps in conceiving a project, what good design in the private sector is, how to make it financially viable, and how to synthesize a project from multiple constraints. This	32



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	elective course is based on the philosophy that real estate development is a creative process. Students are encouraged to innovate as they synthesize all aspects of a project. At the end, it is expected that students would submit a professional proposal for development along with cash flow & financing as per current market conditions.	
B	Urban Utilities Planning The Urban Utility Services introduces students to the planning, design, and management of essential urban systems with a focus on primary infrastructure, social amenities, and socio-cultural facilities supported by modern technologies. It covers core utilities such as water supply, sanitation, solid waste management, stormwater drainage, energy distribution, and urban transport, emphasizing sustainability, efficiency, and equitable access. The syllabus also explores social infrastructure including healthcare, education, housing, and recreational spaces, highlighting their role in improving quality of life and community well-being. Special attention is given to socio-cultural facilities such as community centers, public spaces, heritage conservation, and inclusive urban design that respects diverse populations. Students are introduced to emerging technologies like smart grids, IoT-based service monitoring, GIS mapping, and digital governance tools that enhance service delivery and urban resilience. The course integrates policy frameworks, urban governance, and citizen participation, encouraging a holistic understanding of how infrastructure and services shape livable cities. Case studies, fieldwork, and practical applications enable learners to critically assess existing systems and propose innovative, culturally sensitive, and sustainable urban utility solutions. Case studies, field visits, and studio-based exercises will support experiential learning and application of concepts in real-world contexts.	32
C	Urban Renewal & Conservation Urban Renewal and Conservation focus on the rehabilitation and revitalization of deteriorating urban areas, with an emphasis on preserving historical and cultural heritage. The course will cover concepts and practices related to urban regeneration, adaptive reuse of buildings, conservation of heritage sites, and sustainable urban development. It will explore the balance between modern urban growth and the preservation of historical, cultural, and architectural assets. In India, urban renewal often involves redeveloping older, dilapidated areas, while also conserving heritage buildings and public spaces. The course will analyze the challenges faced in implementing urban renewal projects, such as issues of displacement, gentrification, and heritage protection. Case studies from cities like Mumbai (for its colonial architecture), Ahmedabad (for its World Heritage City status), and Delhi (for its ancient monuments) will provide insight into successful urban conservation and renewal strategies. Additionally, global examples from cities such as Paris and London will be compared to develop a broader understanding of urban renewal principles.	32

Suggested Specification table for Evaluation:

Distribution of Evaluation					
R Level	U Level	A Level	N Level	E Level	C Level
-	20%	30%	30%	10%	10%

Legends: R: Remembrance. U: Understanding; A: Apply. N: Analyze, E: Evaluate C: Create and above Levels (Revised Bloom's Taxonomy)

Note: This specification table shall be treated as a general guideline for students and teachers. The actual distribution of marks in the Final Evaluation may vary slightly from above table.

Reference Books:

Sr No	Title of book /article	Author(s)	Publisher and details like ISBN	Year of publication	Publication Edition
<i>Note - The respective course faculty will determine and recommend reference materials according to the specific requirements of the course content.</i>					

Course Outcomes:

Sr. No.	CO statement	Marks % weightage
CO-1	Foster a mindset of continuous self-improvement, adaptability, and resilience, aligning professional development with personal interests, inclinations, and career aspirations within the core domain.	25%
CO-2	Evaluate professional, ethical, and sustainability considerations in decision-making within the selected domain of study.	25%
CO-3	Communicate ideas, processes, and outcomes effectively using discipline-appropriate methods, both independently and collaboratively, and encourage adaptability and continuous growth.	25%
CO-4	Create innovative, sustainable, and context-sensitive solutions or projects informed by current global and local practices.	25%

List of Open learning website:

- A. NPTEL - Swayam
- B. Coursera

List of Open Source Software:

- A. QGIS (with Urban Infrastructure Plugins)
- B. EPANET

List of Exercises:

Sr. No.	Studio Exercises / Assignments for CCE
<i>Exercises / Assignments will be allotted by Respective Faculties</i>	

Year: M.Arch. (UD) II (Semester IV)

MITRAJ SARVAJANIK INSTITUTE OF DESIGN, PLANNING & TECHNOLOGY						
Faculty	FADPT			Programme	M.Arch. (UD)	
Year	II			Version	2.0	
Semester	IV			Effective From	June 2026 (For all batches admitted 2025 onwards)	
Course Code	MRUD21401	Course Name		Thesis		
Course Type	Major			-		
Teaching Scheme				Examination Scheme		
Credits	L	S	Total	CCE	SEE	Total
13	0	13	13	82/163	81/162	325

CCE: Continuous and Comprehensive Evaluation including 20% of Attendance, 80 % of Sincerity in attending classes/class tests/ timely submissions of assignments/self-learning attitude/solving advanced problems/periodic assessment conducted by institute.

The minimum passing head is 50%, it is rounded to 82 marks to avoid "E&O" arising due to decimal value.

SEE: Sem End Evaluation: Theory Exam or Jury/viva on practical skills learned in course. In case of theory exams the question paper of minimum 50 marks (2hrs) will be drawn for evaluation.

Prerequisite (if any): - As per semester progression rule of Sarvajani University /promotion eligibility.

List of Courses where this course will be prerequisite: - NA

Rationale: - This thesis course is essential as it provides foundational research skills, analytical techniques, and critical thinking necessary for advanced urban and regional planning studies. It enables students to apply theoretical knowledge to practical problems, ensuring a deep understanding of planning concepts. Additionally, it prepares them for effective professional practice, enhancing their ability to address complex urban and regional challenges.

Content:

Each student is required to undertake a comprehensive **Urban Design Thesis** under the guidance of an approved faculty advisor. The thesis shall explore a topic within the domain of **urban design, planning, and development**, and will be presented through seminars and evaluated in stages by the jury / panel appointed by the institute.

The selected thesis topic may be **conceptual, analytical, comparative or design-oriented**, addressing contemporary urban issues. Approval of the topic will be granted progressively, based on clarity, relevance, and academic rigor.

The thesis development focuses on:

- Delineation of the project area
- Case studies and precedent analysis
- Literature review
- Surveys and data collection

The process emphasizes understanding **decision-making frameworks** and their relationship to professional urban design and planning practices.

Students are required to **present and defend** their thesis through:

- Drawings and graphical representations
- Detailed reports and study sheets
- Physical or digital models
- Multimedia presentations and verbal communication

T

hese will be evaluated during interim reviews and the final jury.

Sr. No.	Description	No. of Hours
Unit 1	Project Synopsis • Topic identification, need /justification, aims & objectives, scope, methodology – description • Project Understanding & need of the project • Understanding the project context and relevance	26
Unit 2	Project Justification, Documentation A. Project Premise • Data collection and documentation • Case studies and detailed analysis • Preparation of base drawings at regional/city scale • Surveys and photographic documentation B. Site Analysis • Base plan and site plan development • Analysis of urban linkages and structure • Land use, density, and street network analysis • Integration of qualitative and quantitative data	39
Unit 3	Case Study & Conceptual Stage • Case Study along with Programme Formulation based on previous comments • Vision for the project leading to Conceptual framework Developing a conceptual framework based on theoretical premise /forming an inquiry • Methodology to be adopted for project & Expected outcomes at the end of the project Relevant drawings, Study Model / 3D Must for the understanding of the concept/ idea.	39
Unit 4	Development Stage • Design demonstration based on the project need (Whole to part or Part to Whole) • Demonstration area of the project (Identification of demonstration area based on project need) • Strategies/policies, guidelines, implementation techniques, Mechanisms,	104



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	phasing, Financial model etc. - Urban Form Resolution/ Building guidelines/ character/ Urban design aspects, as per project need - Relevant drawings, Study Model / 3D Must for the understanding of the physical form.	
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Suggested Specification table for Evaluation:

Distribution of Evaluation					
R Level	U Level	A Level	N Level	E Level	C Level
0%	10%	30%	20%	10%	30%

Legends: R: Remembrance, U: Understanding; A: Apply, N: Analyze, E: Evaluate C: Create and above Levels (Revised Bloom's Taxonomy)

Note: This specification table shall be treated as a general guideline for students and teachers. The actual distribution of marks in the Final Evaluation may vary slightly from above table.

Reference Books:

Sr No	Title of book /article	Author(s)	Publisher and details like ISBN	Year of publication	Publication Edition
1	Urban Design Case-Studies (Compilation)	-	RC Publications	1979	-
2	Case Study Research and Applications: Design and Methods	Robert K. Yin	Sage Publication	2018	6th Edition
3	Urban Design: Method and Techniques	Rafael Cuesta, Christine Sarris, Paola Signoretta, J.C. Moughtin	Routledge	2012	2nd Edition
4	An Introduction to Scientific Research Methods in Geography.	Montello, Daniel, and Paul Sutton	Thousand Oaks, CA: Sage.	2006	-
5	The Social Life of Small Urban Space	William H. Whyte	Project for Public Spaces	1980	1st Edition



Course Outcomes:

Sr. No.	CO statement	Marks % weightage
CO-1	Contribute to urban design knowledge by integrating theory and practice to address contemporary urban challenges and propose innovative design solutions aligned with prevailing implementation mechanism.	25%
CO-2	Critically examine the role of specialization within urban design and its impact on shaping urban environments and policies.	25%
CO-3	Approach urban design as a design research-driven process, applying systematic methodologies for analysis and intervention.	25%
CO-4	Integrate academic research with professional practice, enabling effective translation of design concepts into implementable strategies and creative design solutions.	25%

List of Open learning website:

- A. NPTEL (National Programme on Technology Enhanced Learning)
Website: <https://nptel.ac.in>
- B. SWAYAM (Study Webs of Active Learning for Young Aspiring Minds)
<https://swayam.gov.in> (Offers courses in urban planning, environment, GIS, and public policy by premier Indian institutions.)

List of Open Source Software:

- A. Bhuvan (ISRO's Geoportal for Spatial Data and Mapping)
- B. Indiatat (Data Platform for Regional and Urban Planning Analysis)
- C. LibreOffice Writer (Open-source Software for Report Writing and Documentation)

List of Exercises:

Sr. No.	Studio Exercises / Assignments for CCE
1	Topic Selection and Problem Identification Identify a critical urban design issue within a defined context and articulate a clear problem statement. Establish relevance by linking the issue to broader urban systems, user needs, and spatial challenges.
2	Literature Review and Conceptual Framework Review theories, principles, and precedents in urban design to build a strong knowledge base. Develop a conceptual framework that guides spatial thinking and informs the design direction.
3	Research Design and Methodology Formulate a research approach integrating qualitative, quantitative, and spatial analysis methods. Define tools such as mapping, surveys, and observations to structure the design inquiry.
4	Data Collection and Analysis



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	Gather primary and secondary data including site observations, stakeholder inputs, and spatial datasets. Analyze urban form, mobility, land use, and socio-economic patterns to derive design insights.
5	Interpretation and Synthesis Translate analytical findings into key design inferences and opportunity areas. Synthesize data into strategies that inform spatial structure, interventions, and design responses.
6	Thesis Writing, Presentation, and Defense Develop detailed urban design proposals supported by drawings, models, and visualization tools. Communicate and defend the design through structured presentations, demonstrating clarity and rigor.



Year: M.Arch. (UD) II (Semester IV)

MITRAJ SARVAJANIK INSTITUTE OF DESIGN, PLANNING & TECHNOLOGY						
Faculty	FADPT			Programme	M.Arch. (UD)	
Year	II			Version	2.0	
Semester	IV			Effective From	June 2026 (For all batches admitted 2025 onwards)	
Course Code	MRUD21402	Course Name		Urban Design Practice		
Course Type	Major			-		
Teaching Scheme				Examination Scheme		
Credits	L	S	Total	CCE	SEE	Total
3	2	1	3	19/37	19/38	75

CCE: Continuous and Comprehensive Evaluation including 20% of Attendance, 80 % of Sincerity in attending classes/class tests/ timely submissions of assignments/self-learning attitude/solving advanced problems/periodic assessment conducted by institute.

The minimum passing head is 50%, it is rounded to 19 marks to avoid "E&O" arising due to decimal value.

SEE: Sem End Evaluation: Theory Exam or Jury/viva on practical skills learned in course, In case of theory exams the question paper of minimum 50 marks (2hrs) will be drawn for evaluation.

Prerequisite (if any): - As per semester progression rule of Sarvajani University /promotion eligibility.

List of Courses where this course will be prerequisite: - -

Rationale: - Urban Design Practice equips students with a nuanced understanding of the professional, ethical, and operational aspects of urban design, both in India and globally. The course emphasizes responsibilities, liabilities, and opportunities within the profession, highlighting the role of urban designers as facilitators of qualitative urban spaces. Students engage with real-world practices including public participation, tendering, and regulatory approvals. By studying case studies and international and Indian projects, students develop the ability to navigate legal frameworks, bidding processes, and interdisciplinary collaboration, preparing them to manage complex urban projects while balancing design vision with pragmatic implementation constraints.

Content:

Sr. No.	Description	No. of Hours
Unit 1	Professional Practice and Ethics in Urban Design Overview of urban design as a profession in India and globally, Pedagogical and ethical practices, professional responsibility, and liability. Role of public participation and consultation in urban projects.	9
Unit 2	Case Studies – Indian and Global Perspectives Analysis of successful and failed urban projects in India and worldwide.	15



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	Understanding project complexity, stakeholder engagement, and innovative practices. Lessons for contextual, ethical, and sustainable urban design practice.	
Unit 3	Government, Semi-Government and Regulatory Frameworks Understanding the role of various government authorities, urban local bodies, and planning agencies. Approval processes, laws, and regulations affecting urban projects. Professional liability and adherence to statutory requirements.	12
Unit 4	Project Tendering, Bidding, and Implementation Tendering processes: Expression of Interest (EOI). Design Competition, and Bidding models. Components of project proposals and contracts. Stages of implementing urban projects. monitoring. and execution challenges.	12

Suggested Specification table for Evaluation:

Distribution of Evaluation					
R Level	U Level	A Level	N Level	E Level	C Level
20%	30%	0%	20%	30%	0%

Legends: R: Remembrance. U: Understanding; A: Apply, N: Analyze. E: Evaluate C: Create and above Levels (Revised Bloom's Taxonomy)

Note: This specification table shall be treated as a general guideline for students and teachers. The actual distribution of marks in the Final Evaluation may vary slightly from above table.

Reference Books:

Sr. No.	Title of book /article	Author(s)	Publisher and details like ISBN	Year of publication	Publication Edition
1.	Urban Design: Street and Square	Cliff Moughtin	Architectural Press	2003	3rd Edition
2.	Professional Practice for Architects and Urban Designers	-	Routledge	2012	2nd Edition
3.	Urban Design in India: Approaches and Practices	-	Concept Publishing Company	2017	1st Edition
4.	Urban Design Practice: An International Review	Sebastian Loew	Routledge	2010	

Course Outcomes:

Sr. No.	CO statement	Marks % weightage
CO-1	Students will understand the responsibilities, opportunities, and ethical obligations of professional urban design practice in India and globally.	20%





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CO-2	Students will be able to navigate and apply regulatory frameworks, tendering processes, and government approvals in real urban projects.	30%
CO-3	Students will analyze and learn from Indian and international case studies to propose feasible, context-sensitive, and human-centered urban design solutions.	30%
CO-4	Ensuring Quality in Public Urban Projects Students will be able to evaluate and propose strategies to enhance design, functionality, and social quality in public urban spaces, ensuring that urban projects respond effectively to human needs, context, and sustainability goals.	20%

List of Open learning website:

- A. <https://ocw.mit.edu/>
- B. <https://learn.unhabitat.org>
- C. <https://www.edx.org>

List of Open Source Software:

- A. <https://www.ladybug.tools>
- B. <https://www.openstreetmap.org>
- C. <https://cityform.mit.edu/projects/urban-network-analysis-toolbox>

List of Exercises:

Sr. No.	Studio Exercises / Assignments for CCE
1	Project Tender Simulation Students prepare an Expression of Interest (EOI) or design competition proposal for a hypothetical urban project. Outcome: Understanding tender requirements, components, and submission procedures.
2	Stakeholder Analysis & Approval Mapping Identify and map relevant government, semi-government, and community stakeholders for a chosen urban project.
3	Public Space Quality Audit Select a local public urban space (park, plaza, or street). Assess it on parameters such as: Spatial organization and accessibility, Safety, comfort, and inclusivity, Aesthetic and cultural relevance, Maintenance and sustainability practices. Propose interventions or redesign strategies to enhance human experience and quality of the space.



Year: M.Arch. (UD) II (Semester IV)

MITRAJ SARVAJANIK INSTITUTE OF DESIGN, PLANNING & TECHNOLOGY						
Faculty	FADPT			Programme	M.Arch. (UD)	
Year	II			Version	1.0	
Semester	IV			Effective From	June 2026 (For all batches admitted 2025 onwards)	
Course Code	MFEL14401	Course Name		Professional Elective 3		
Course Type	Ability Enhancement			-		
Teaching Scheme				Examination Scheme		
Credits	L	S	Total	CCE	SEE	Total
2	2	0	2	13/25	13/25	50

CCE: Continuous and Comprehensive Evaluation including 20% of Attendance, 80 % of Sincerity in attending classes/class tests/ timely submissions of assignments/self-learning attitude/solving advanced problems/periodic assessment conducted by institute.

The minimum passing head is 50%, it is rounded to 13 marks to avoid "E&O" arising due to decimal value.

SEE: Sem End Evaluation: Theory Exam or Jury/viva on practical skills learned in course. In case of theory exams the question paper of minimum 50 marks (2hrs) will be drawn for evaluation.

Prerequisite (if any): - As per semester progression rule of Sarvajani University /promotion eligibility.

List of Courses where this course will be prerequisite: - NA

Rationale: - Professional electives are structured to provide students with the opportunity to explore specialised areas of interest beyond the core curriculum, focusing on skill enhancement, thereby deepening their knowledge and competency in targeted domains. These electives emphasise flexibility and individual choice, allowing students to align their academic journey with personal career aspirations and evolving industry dynamics. By engaging with advanced topics, emerging trends and technologies, and real-world applications, students enhance their creative thinking, technical proficiency, and professional preparedness. The rationale for integrating professional electives lies in fostering a learner-centered approach that promotes adaptability, innovation, learner autonomy, skill enhancing engagements, and the integration of academic inquiry with evolving industry standards, practices and expectations

Content:

Sr. No.	Description	No. of Hours
A	Environmental Impact Assessment This elective course examines principles, procedures, methods, and applications of environmental impact assessment. The goal of the course is to promote an understanding of how environmental impact assessment is conducted and used as a valuable tool in the engineering project management decision making process. Topics include: overview of environmental impact assessment; selection of scientific, engineering, and socioeconomic factors in environmental impact	32



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	assessment; identification of quantitative and qualitative environmental evaluation criteria; application of traditional and other techniques for assessing impacts of predicted changes in environmental quality; approaches for identifying, measuring, predicting, and mitigating environmental impacts; modelling techniques employed in environmental impact assessment; environmental standards and the environmental impact assessment process; and methodologies for incorporating environmental impact assessment into management decision-making. Students learn to prepare an environmental impact assessment, review and critically analyse an environmental impact statement, use mathematical models for environmental impact prediction, and apply environmental impact assessment as a tool in management decision-making.	
B	Water Wise Cities Building water-wise cities is a pressing need nowadays in both developed and developing countries. This is mainly due to the limitation of the available water resources, climate change and aging infrastructure to meet the needs of adapting to social and environmental changes and for urban liveability. This elective would provide comprehensive insights into theoretical, systematic and planning aspects of water-wise cities with a broad coverage of global issues. The elective aims to (1) provide a theoretical framework of water-wise cities and associated sustainable water systems including key concepts and principles, (2) provide a brand-new thinking on the design and management of sustainable urban water systems of various scales towards a paradigm shift under the resource and environmental constraints, and (3) provide a technological perspective with successful case studies of technology selection, integration, and optimization on the “fit-for-purpose” basis.	32
C	Nature-Based Solutions in Urban Development The course "Nature-Based Solutions in Urban Development" provides a comprehensive exploration of ecosystem-based approaches to address urban challenges through sustainable planning and design strategies. The syllabus encompasses theoretical foundations and applied frameworks for integrating green and blue infrastructure, urban biodiversity, climate resilience, and ecological restoration within the built environment. Students will engage with global best practices, policy frameworks, and interdisciplinary tools that align with the UN Sustainable Development Goals (SDGs) and the New Urban Agenda. Emphasis will be placed on participatory planning, ecosystem services, and co-benefits for health, well-being, and disaster risk reduction. Through studio exercises, case studies, and fieldwork, the course aims to build critical competencies in designing resilient, adaptive, and inclusive urban spaces by leveraging nature as a core infrastructure asset.	32



D	Urban River Management The Urban River Management course examines how urban rivers can be restored and integrated into city systems by balancing ecology, infrastructure, and community needs. It frames rivers as dynamic socio-ecological assets rather than merely channels for flood control, drawing from Urban Planning, Landscape Architecture, Hydrology, and Environmental Engineering. The course introduces watershed dynamics, river basin planning, and the impacts of urbanization on hydrology, morphology, and water quality. A core focus is river restoration and ecological design, including riparian buffers, wetlands, and blue-green infrastructure. Global examples like Room for the River illustrate adaptive strategies that give rivers space. Urban resilience and flood management are addressed through both structural (levees, drainage systems) and non-structural measures (zoning, early warning, community participation). The course also covers governance, policy frameworks, and equity concerns, including access and displacement. Often discussion-based, it engages students in designing integrated river management proposals.	32
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Suggested Specification table for Evaluation:

Distribution of Evaluation					
R Level	U Level	A Level	N Level	E Level	C Level
-	20%	30%	30%	10%	10%

Legends: R: Remembrance, U: Understanding; A: Apply, N: Analyze, E: Evaluate C: Create and above Levels (Revised Bloom's Taxonomy)

Note: This specification table shall be treated as a general guideline for students and teachers. The actual distribution of marks in the Final Evaluation may vary slightly from above table.

Reference Books:

Sr No	Title of book /article	Author(s)	Publisher and details like ISBN	Year of publication	Publication Edition
<i>Note - The respective course faculty will determine and recommend reference materials according to the specific requirements of the course content.</i>					

Course Outcomes:

Sr. No.	CO statement	Marks % weightage



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CO-1	Foster a mindset of continuous self-improvement, adaptability, and resilience, aligning professional development with personal interests, inclinations, and career aspirations within the core domain.	25%
CO-2	Evaluate professional, ethical, and sustainability considerations in decision-making within the selected domain of study.	25%
CO-3	Communicate ideas, processes, and outcomes effectively using discipline-appropriate methods, both independently and collaboratively, and encourage adaptability and continuous growth.	25%
CO-4	Create innovative, sustainable, and context-sensitive solutions or projects informed by current global and local practices.	25%

List of Open learning website:

- A. NPTEL - Swayam
- B. Coursera
- C. UNEP Outreach Program

List of Open Source Software:

- A. GIS
- B. Autocad
- C. Climate Mapping Softwares

List of Exercises:

Sr. No.	Studio Exercises / Assignments for CCE
<i>Exercises / Assignments will be allotted by Respective Faculties</i>	



Year: M.Arch. (UD) II (Semester IV)

MITRAJ SARVAJANIK INSTITUTE OF DESIGN, PLANNING & TECHNOLOGY						
Faculty	FADPT			Programme	M.Arch. (UD)	
Year	II			Version	1.0	
Semester	IV			Effective From	June 2026 (For all batches admitted 2025 onwards)	
Course Code	MFEL16402	Course Name		Transdisciplinary Elective 2		
Course Type	Value Added Elective			-		
Teaching Scheme				Examination Scheme		
Credits	L	S	Total	CCE	SEE	Total
2	2	0	2	13/25	13/25	50

CCE: Continuous and Comprehensive Evaluation including 20% of Attendance, 80 % of Sincerity in attending classes/class tests/ timely submissions of assignments/self-learning attitude/solving advanced problems/periodic assessment conducted by institute.

The minimum passing head is 50%, it is rounded to 13 marks to avoid "E&O" arising due to decimal value.

SEE: Sem End Evaluation: Theory Exam or Jury/viva on practical skills learned in course, In case of theory exams the question paper of minimum 50 marks (2hrs) will be drawn for evaluation.

Prerequisite (if any): - As per semester progression rule of Sarvajani University /promotion eligibility.

List of Courses where this course will be prerequisite: - NA

Rationale: - Transdisciplinary Electives are structured to provide students to foster integrative thinking and holistic problem-solving skills essential for addressing the complexities of contemporary urban and built environments. Given the increasingly interconnected nature of societal, environmental, technological, and spatial challenges, this elective aims to bridge disciplinary silos by enabling students to engage with diverse knowledge systems, methodologies, and stakeholder perspectives. It encourages collaborative inquiry and innovation across fields such as urban planning, architecture, environmental studies, data science, policy, and social sciences, thereby cultivating a new generation of professionals equipped with adaptive, systems-oriented competencies aligned with sustainable and inclusive development goals.

Content:

Sr. No.	Description	No. of Hours
A	Urban Land Management Land is a resource and at the same time it is non-renewable hence it should be utilized very carefully as it is the base for all the development activities. This elective course is designed to give enough competence for analysis and solving of complex problems within "land management and cadastre" with special emphasis on "land tenure rights". The students shall learn valuation with emphasis on real property valuation for taxation purposes and its connection to cadastre systems. To reach this goal, the teaching shall give the students' knowledge of fundamental property formation methods and systems with connection to juridical, economical	32

	and also to technical property register systems. Emphasis will be put on the ability to integrate real estate planning with detailed urban planning, environment, sustainable development and social and economic responsibilities. Urban land management means organization of land survey, zoning, classification into type & creating a land use pattern to do the town planning in a better manner. This elective would focus on the various land management techniques like master plan approach, development plan, land acquisition, and land pooling and readjustment methods.	
B	Artificial Intelligence in Urbanism Artificial Intelligence (AI) is rapidly transforming urban planning and management, from predictive analytics for traffic management to AI-driven designs for smart cities. This course will provide an understanding of how AI can be utilized in urbanism, exploring the role of machine learning, data analytics, and decision-making algorithms in improving urban services, infrastructure, and policy-making. It will cover the various applications of AI in urban settings, including smart grids, autonomous vehicles, urban mobility, and urban forecasting. The course will also discuss the challenges and ethical considerations associated with the use of AI in urbanism, such as data privacy, digital divide, and algorithmic bias. The Indian situation will be critically analyzed with reference to its rapid urban growth, the need for infrastructure improvement, and the government's push towards adopting AI and smart technologies in cities under initiatives like the Smart Cities Mission. The role of AI in addressing urban problems in India, such as overcrowded transportation systems, waste management, and urban air pollution, will be explored.	32
C	Global Urbanization Trends This course will explore the global trends in urbanization, examining the forces that shape urban growth and transformation worldwide. The course will delve into the relationship between globalization, technology, migration, and urban development, analyzing how different regions of the world are experiencing urbanization and the challenges that arise from it, such as overcrowding, infrastructure deficits, and environmental degradation. Key topics include megacities, slum formation, urban sprawl, and sustainable urban development. The course will also consider the implications of urbanization for climate change and resilience, exploring how cities around the world are addressing sustainability and environmental challenges. India's urbanization patterns, which include rapid growth in smaller towns and cities, will be explored in relation to both global trends and local conditions. Case studies of global cities like Tokyo, New York, and Mumbai will be analyzed to understand how these cities are managing urbanization in diverse socio-economic, political, and environmental contexts.	32

Suggested Specification table for Evaluation:

Distribution of Evaluation					
R Level	U Level	A Level	N Level	E Level	C Level
-	20%	30%	30%	10%	10%



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Faculty of Architecture, Design, Planning
and Technology
Master of Architecture (Urban Design)



Legends: R: Remembrance, U: Understanding; A: Apply, N: Analyze, E: Evaluate C: Create and above Levels (Revised Bloom's Taxonomy)

Note: This specification table shall be treated as a general guideline for students and teachers. The actual distribution of marks in the Final Evaluation may vary slightly from above table.

Reference Books:

Sr No	Title of book /article	Author(s)	Publisher and details like ISBN	Year of publication	Publication Edition
<i>Note - The respective course faculty will determine and recommend reference materials according to the specific requirements of the course content.</i>					

Course Outcomes:

Sr. No.	CO statement	Marks % weightage
CO-1	Foster a mindset of continuous self-improvement, adaptability, and resilience, aligning professional development with personal interests, inclinations, and career aspirations within the core domain.	25%
CO-2	Evaluate professional, ethical, and sustainability considerations in decision-making within the selected domain of study.	25%
CO-3	Communicate ideas, processes, and outcomes effectively using discipline-appropriate methods, both independently and collaboratively, and encourage adaptability and continuous growth.	25%
CO-4	Create innovative, sustainable, and context-sensitive solutions or projects informed by current global and local practices.	25%

List of Open learning website:

- A. NPTEL - Swayam
- B. Coursera
- C. Artificial Intelligence Tools

List of Open Source Software:

- A. QGIS
- B. AI Tools

List of Exercises:

Sr. No.	Studio Exercises / Assignments for CCE
<i>Exercises / Assignments will be allotted by Respective Faculties</i>	



Year: M.Arch. (UD) II (Semester IV)

MITRAJ SARVAJANIK INSTITUTE OF DESIGN, PLANNING & TECHNOLOGY						
Faculty	FADPT			Programme	M.Arch. (UD)	
Year	II			Version	1.0	
Semester	IV			Effective From	June 2026	
					(For all batches admitted 2025 onwards)	
Course Code	MFGN17401	Course Name		Professional Training		
Course Type	Summer Training			-		
Teaching Scheme				Examination Scheme		
Credits	L	S	Total	CCE	SEE	Total
4	-	-	4	-	50/100	100

SEE: Sem End Evaluation: Jury/viva on practical skills learned in course. In case of theory exams the question paper of minimum 50 marks (2hrs) will be drawn for evaluation.

Prerequisite (if any): - As per semester progression rule of Sarvajani University /promotion eligibility.

Note: Professional Training will have to be pursued as a part of the Summer term, it can be in the form of internship at ULB's or Govt./Semi Government/ Private organizations or under a recognized Urban Design and/or planning professional; or do field works or research as approved by the equivalence committee setup by the institute.

End of Document

