



**CURRICULUM
FOR
“MASTER OF
ARCHITECTURE–URBAN
DESIGN
(M.ARCH (UD))”**

w.e.f. Academic Year 2025-'26

॥ 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



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



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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 **03/09/2025** and recommended to '**BOARD OF STUDIES**' for approval.

Prof. Vishal Shah Chairman, Academic & Curriculum Committee Architecture	Place of the meeting Sarvajanic University	 Sign
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The Proposed Program Curriculum was approved by **Board of Studies** under the Faculty of Architecture, Design, Planning and Technology in the meeting held on **04/09/2025** and was recommended to the '**FACULTY**' for approval.

Prof. Persi Engineer Chairman - BOS Architecture, Design, Planning & Technology	Place of the meeting Sarvajanic University	 Sign
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The Program Curriculum approved by the **Faculty of Architecture, Design, Planning & Technology** in the meeting held on **04/09/2025** and was recommended to '**ACADEMIC COUNCIL**' for approval

Prof. Persi Engineer Chairman & Dean Faculty of Architecture, Design, Planning & Technology	Place of the meeting Sarvajanic University	 Sign
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The Program Curriculum approved by the '**Academic Council of Sarvajanic University**' in the meeting held on / /2025.

Mr. Ashish Desai Member-Secretary, Academic Council & Registrar, Sarvajanic University	Place of the meeting Sarvajanic University	 Sign
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- *The approved curriculum is with effect from the Academic year 2025-26*

**MASTER OF ARCHITECTURE
(URBAN DESIGN)**

**AAERT & The SSB Faculty of Architecture
MITRAJ SARVAJANIK
INSTITUTE OF DESIGN PLANNING &
TECHNOLOGY
(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 Batch admitted in June-July 2025

Proposed and discussed in ACC Meeting held on 03/09/2025

Approved in BOS meeting dated 04/09/2025

Approved in Faculty of Architecture, Design, Planning and Technology dated 04/09/2025

PRELUDE

With the formation of SarvajaniK University under the aegis of SarvajaniK Education Society, a major impact is expected on the educational scenario in South Gujarat region where the SarvajaniK 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, Institute of Design Planning & Technology (IDPT), SCET 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 and Regional Planning. With a strong faculty strength and a rich mix of experience and expertise, IDTP is all set to start the voyage for the new era that it is entering by becoming a constituent of the SarvajaniK 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 epicentre 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 (ITPI) - 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



SARVAJANIK UNIVERSITY
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and Technology**
Master of Architecture (Urban Design)



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-1	2	2	0	2	13/25	13/25	50
				22	11	11	22			550

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

General Notes:

L= Lecture, S= Studio

Minimum passing marks are **50% for Column no. 7 & 8**

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.

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.

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.

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**.

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	-	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.

SEE: Sem End Evaluation: Performance in theory exam / jury / viva as per the course requirement

Prerequisite (if any): - Students should have basic understanding of urban form, spatial representation (plans, sections, maps), and design or planning processes. Familiarity with survey techniques, built environment vocabulary, and visual communication tools like AutoCAD or GIS is beneficial. Analytical thinking and awareness of social, environmental, and infrastructural systems are essential.

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	<p>Introduction and Learning Basics</p> <ul style="list-style-type: none"> • 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
Unit 2	Data Collection and Development of Understanding of Cities	32

	<ul style="list-style-type: none"> • 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) 	
Unit 3	Synthesis, Analysis, Mapping and Representation <ul style="list-style-type: none"> • 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) <ul style="list-style-type: none"> • 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:

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	



2.	A New Theory of Urban Design	Christopher Alexander	Oxford University Press, London	1987	
3.	Urban Space	Rob Krier	Academy Editions, London	1991	
4.	Ancient & Medieval Town Planning in India	Prabhakar Begde	Carolina Academic Press., Delhi	1978	
5.	City Shaped: Urban Patterns And Meanings Through History	Spiro Kostof	Thames and Hudso, London	1991	
6	City Assemble: The Elements Of Urban Form Through History	Spiro Kostof	Thames and Hudso, London	1992	
7	Collage City	Colin Rowe & Fred Koetter	The MIT Press; Reprint edition	1984	
8	City In History: Its Origin, Its Transformation And Its Prospects	Lewis Mumford	Secker and Warburg, London	1966	
9	Design of Cities	Edmund Bacon	Thames and Hudson, London	1974	
10	Emerging Concepts in Urban Design	Geoffrey Broadbent	Taylor & Francis	1995	

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:

- f. Bhuvan (ISRO)
- g. INDEA – India Digital Earth Application
- h. SMART GIS (developed under Smart Cities Mission initiatives)
- i. QGIS
- j. OpenStreetMap (OSM)
- k. 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	I			Version	1.0	
Semester	I			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.
SEE: Sem End Evaluation: Performance in theory exam / jury / viva as per the course requirement

Prerequisite (if any): - Students should have basic undergraduate knowledge in geography, economics, and sociology. Familiarity with environmental studies and governance concepts is also important. This foundation supports understanding of spatial, social, and policy dimensions of planning.

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
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	6

	Tabulation of data, graphical presentation of data, techniques of graphical presentation of spatial data.	
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 details like ISBN	Year of publication	Publication Edition
1.	Urban Planning Analysis: Methods and Models.	Donald A. Kruekeberg and Arthur L. Silvers.	John Wiley & Sons Inc.		

2.	P.S.: Quantitative Techniques in Geography: An Introduction.	Hammond, R. and McCullagh	Oxford University Press, London.	1974	
3.	Urban Planning Methods	Ian Braken	Routledge		
4.	Elementary Statistics in Social Research.	Levin, J.,	Harper and Row, New York.	1973	
5.	Principles and Practice of Town and Country Planning.	Lewis B. Keeble.	Estates Gazette Ltd.		
6	An introduction to Town planning Techniques.	Margaret Robert.	Hutchinson Educational, Hutchinson		

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

FOR STUDIO SESSIONS:

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.

SEE: Sem End Evaluation: Performance in theory exam / jury / viva as per the course requirement

Prerequisite (if any): - N.A.

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

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	<p>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.</p> <ul style="list-style-type: none"> • 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, Bhagalpur, 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
Unit 2	<p>Dimensions of Planning</p> <ul style="list-style-type: none"> • 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	10

	Planning Theories by Ebenezer Howard, Camillo Sitte, Patrick Geddes. C.A. Doxiadus, Lewis Mumford, F.L. Wright, 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; Neo-Marxist and Neo Liberal perspectives in Planning, Post positivist typology of planning theory, Advocacy and Pluralism, Collaborative and Communicative Planning, Global cities, 15-minute city, Sustainable Cities, Healthy City, Resilience City, New Urbanism and Smart Growth Developments.	
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 and details 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	
6	Settlement Patterns and Planning in India.	Dr. Singh Satvir	Akinik Publications, Delhi.	2019	

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 Open learning website:

- a. ocw.mit.edu
- b. swayam.gov.in
- c. www.futurelearn.com

List of Open Source Software:

- a. www.openstreetmap.org
- b. www.zotero.org

FOR STUDIO SESSIONS:

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.

SEE: Sem End Evaluation: Performance in theory exam / jury / viva as per the course requirement

Prerequisite (if any): - Students should have foundational knowledge of infrastructure systems and services, including transportation, water supply, sanitation, energy, and solid waste management.

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	<p>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</p>	4
Unit 2	<p>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, components of each system,</p>	12

	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	<p>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.</p>	12
Unit 4	<p>Infrastructure Management & Finance Infrastructure development models, role of public and private sector, public-private partnership, requirements of appropriate technology, cost recovery, gap analysis.</p>	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 Affairs & Employment	Government of India, New Delhi.	2014	
2	Report on Indian Urban Infrastructure and Services. The High Powered Expert Committee (HPEC) for Estimating the Investment		Ministry of Urban Development	2011	



	Requirements for Urban Infrastructure Services				
3	Financing Urban Infrastructure in India:		National Institute of Urban Affairs	1997	Research Study Series 59. NIUA, New Delhi.
4	Urban and Regional Planning: A Systems Approach.	McLoughlin Brian J.	Rawat Publications, New Delhi.	2019	
5	Infrastructure Development in India.	Sethi V.K.	New Century Publications, New Delhi.	2007	
6	SAAR Reports		NIUA	2018	
7	Urban Infrastructure and Governance.	G.Ramesh, Nagadevra V., Naik G., Suraj A	Routledge Taylor and Francis Group, New Delhi, India	2010	
8	Norms and Standards for Urban Water Supply and Sewerage Services		TCPO and Ministry of Works and Housing, New Delhi		
9	Elements of Water Supply and Waste Water Disposal	FAIR, G. M., Gayer, J. C. and Okun, D.A.	John Wiley & Sons, New York.		
10	Urban Water engineering and Management	Mohammad Karamouzetal	Taylor and Francis Group, USA	2010	
11	Planning Designing and Engineering of Sustainable Urban Transport Systems	A. K. Jain	Khanna Publishers, New Delhi		
12	Solid Waste Management Practices in Urban India: A Compendium.		National Institute of Urban Affairs, Delhi.	2019	
13	Urban Transportation in Indian Cities: Compendium of Good practices		PEARL, National Institute of Urban Affairs, Delhi.	2015	



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

FOR STUDIO SESSIONS:

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 SARVAJNIK 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.

SEE: Sem End Evaluation: Performance in theory exam / jury / viva as per the course requirement

Prerequisite (if any): - Students should have a foundational understanding of urban studies, human geography, and basic architectural design. Familiarity with socio-economic data analysis, land use planning, and development regulations is essential. Basic skills in GIS mapping, statistical tools, and report writing are also important for effective learning in housing planning and management.

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 G.L., and Cherry G.E.	George Allen and Unwin, London		
2.	Metropolitan Housing Markets	Meera Mehta and Dinesh Mehta	Sage Publications Pvt. Ltd., New Delhi	1999	
3.	The House Versus Housing"	Davis S.		1977	The Form of Housing,



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Master of Architecture (Urban Design)



					NY: VN/Reinhold in JAE, Vol. 19, No. 3.
4.	Residential Density	Diamond, AJ.			
5.	Housing in India	Francis Cherunilam and Odeyar D Heggade	Himalaya Publishing House, Bombay	1997	
6	Review of Literature on Housing Programme for the Urban Poor in India	De, Prasanta	Reader on Housing, CEPT, Ahmedabad	1988	
7	The Evolution of Housing Concepts 1870-1970	Frampton, K.		1975	Lotus, No.10, Nov. 1975.
8	National Housing Policy		Government of India, New Delhi		
9	Housing Condition and Situation		handbook of Housing Statistics, Government of India, New Delhi	1980	
10	Introduction to Urban Housing Design	Graham Towers	Routledge	2005	
11	Communitas	Goodman, Paul and Percival.	New York: Vintage Books	1947 and 1960	
12	Handbook of Housing Statistics		Building Organization Government of India, New Delhi	1981	
13	Housing for the lowest income group : the Calcutta experience	Rosser, C.	Ekistics	1971	
14	Housing Situation in Greater Bombay	Ramchandran, P. N.	CIDCO report No. 2, Bombay		

Course Outcomes:

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)

FOR STUDIO SESSIONS:

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.

SEE: Sem End Evaluation: Performance in theory exam / jury / viva as per the course requirement

Prerequisite (if any): - N.A.

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

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, analysing 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. McIntyry	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	
11	Applied Urban Ecology: A Global Framework	Matthias Richter, Ulrike Weiland			

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

FOR STUDIO SESSIONS:

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.

SEE: Sem End Evaluation: Performance in theory exam / jury / viva as per the course requirement

Prerequisite (if any): - Students should have a basic understanding of geography, spatial concepts, and map-reading skills. Familiarity with computer applications and elementary statistics is essential for processing and analyzing spatial data. Prior exposure to concepts of land use, topography, and data visualization enhances learning in urban cartography and GIS.

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, Line, Polygone, Area, Volume, Analytics, Learning Q-GIS tools, Various plug-ins related to Q-GIS.	16



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

FOR STUDIO SESSIONS:

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.

SEE: Sem End Evaluation: Performance in theory exam / jury / viva as per the course requirement

Prerequisite (if any): - Urban Foundation Studio

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 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.)	16

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.

SEE: Sem End Evaluation: Performance in theory exam / jury / viva as per the course requirement

Prerequisite (if any): - No.

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.	16

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:

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

List of Open Source Software:

- QGIS
- Google Earth Engine
- EarthRanger

FOR STUDIO SESSIONS:

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.

SEE: Sem End Evaluation: Performance in theory exam / jury / viva as per the course requirement

Prerequisite (if any): - Students should have a basic understanding of the Indian Constitution, governance structures, and administrative functions at various levels. Familiarity with urban development processes, land use planning, and statutory planning documents is essential. Awareness of legal terminology and civic institutions supports deeper engagement with urban legislation and governance frameworks.

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	<p>Introduction to basic concepts of urban legislation and governance:</p> <ul style="list-style-type: none"> • 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 institutions- Methods, process and evaluation. 	12

Unit 2	<p>Urban Legislation and Land regulations</p> <ul style="list-style-type: none"> • 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	<p>Housing and Planning regulations and laws</p> <ul style="list-style-type: none"> • 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, CRZ, etc.– Sustainable Urban development – Problems and Prospects 	12
Unit 4	<p>Latest Trends in Urban Planning and Legislation</p> <ul style="list-style-type: none"> • 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 planning and development agencies in various states. 	12

	<ul style="list-style-type: none"> • 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 ISBN	Year of publication	Publication Edition
1.	Environment Protection Act, 1986			1986	
2.	Real Estate (Regulation and Development) Act, 2016			2016	
3.	Regional Planning Act Goa and Maharashtra				
4.	Right to Fair Compensation and Transparency in Land Acquisition, Rehabilitation and Resettlement Act, 2013			2013	
5.	The Bombay Provincial Municipal Corporations Act,1949			1949	
6	The Gujarat Housing Board Act, 1961			1961	
7	The Gujarat Municipal Finance Board Act, 1979			1979	
8	The Gujarat Slum Areas (Improvement, Clearance and Redevelopment) Act, 1976			1976	



9	The Gujarat Regularization of Unauthorisation Development Act 2001			2001	
10	The Gujarat Municipalities Act, 1963			1963	

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>

List of Open Source Software:

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

FOR STUDIO SESSIONS:

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.

SEE: Sem End Evaluation: Performance in theory exam / jury / viva as per the course requirement

Prerequisite (if any): - Students should have foundational knowledge of urban and regional planning principles, including transportation networks and land use interrelationships.

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



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 and Transportation Planning.	Kadiali, L.R.	Khanna Publishers, Delhi.	1999	



2	National Transit Oriented Development (TOD) Policy, 2017.	Ministry of Housing and Urban Affairs	Government of India, New Delhi.	2017	
3	Developing Economic Corridors in South Asia.	Prabir De and Kavita Iyengar	Asian Development Bank, Manila	2014	
4	The Role of Transport and Transit Corridors in Fostering International Cooperation for Sustainable Development: Issues and Recommendations	United Nations Human Settlements Programme	UN-HABITAT, Nairobi	2015	
5	How does transportation facilitate regional economic development? A heuristic Mapping of the literature.	Pokhrel Ramesh, Bertolini Luca and Brommel Street te Marco	Elsevier, Amsterdam.	2023	
6	Enhancing station level Direct-Demand models with Multi-Scalar accessibility indicators.	Luis Enrique Ramos-Santiago	Elsevier, Amsterdam.	2023	
7	Effective Transit Transport Corridor Development and Management: Report on Best Practices. Office of the High Representative for the Least Developed Countries, Landlocked Developing Countries and Small Island Developing States. New York.	UN-OHRLLS		2020	
8	Code of Practice: Part I-V	Institute of Urban Transport (India)	Ministry of Urban Development, Government of India	2012	
9	Regional Development and Planning.	Jiwan J.	Rawat Publications, New Delhi.	2021	

Course Outcomes:

Sr. No.	CO statement	Marks % weightage
CO-1	Upon the completion of this course, the students will be able 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

FOR STUDIO SESSIONS:

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 SARVAJNIK 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	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.
SEE: Sem End Evaluation: Performance in theory exam / jury / viva as per the course requirement

Prerequisite (if any): - N.A.

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

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.	Shivaramkrishnan, 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

FOR STUDIO SESSIONS:

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)	
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	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.
SEE: Sem End Evaluation: Performance in theory exam / jury / viva as per the course requirement

Prerequisite (if any): - N.A.

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

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,	8

	underdevelopment and crime, Education, employment and development economics, 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	Alain Bertaud		2018	
2	Urbanization and Growth	Michael Spence Patricia Clarke Annez Robert M. Buckley	Commission on Growth and Development	2009	
3	Principle of Microeconomics	N. Gregory Mankiv	South-Western, a part of Cengage Learning	2009	
4	Cities and Agglomeration Externalities: Lessons for Urban Public Policy in Asian Countries	Prasanna K. Mohanty and Alok K. Mishra	Sage Publication	2014	
5	Cities as Engines of Inclusive Development		IIHS	2014	
6	The City as a Growth Machine: Toward a Political Economy of Place	Harvey Molotch	AJS Volume 82 Number	2013	

7	India Habitat III National Report 2016		Ministry of Housing and Urban Poverty Alleviation, GoI	2016	
8	The Economic Role of Cities		UN-Habitat.	2011	
9	The Economics of Urban Form: A Literature Review		UN-Habitat	2015	
10	Urban and Regional Economics	McCann, Philip	Oxford University Press	2001	
11	Urban economics	O'Sullivan, Arthur	Boston, Mass: McGraw Hill/Irwin.	2003	

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. **MIT Open Source Learning:** <https://ocw.mit.edu/courses/11-202-planning-economics-fall-2010/>
- b. **Coursera Online Learning:**
<https://www.coursera.org/courses?query=urbanism>

List of Open Source Software:

- a. UrbanSim
- b. R commander

FOR STUDIO SESSIONS:

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	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.

SEE: Sem End Evaluation: Performance in theory exam / jury / viva as per the course requirement

Prerequisite (if any): - N.A.

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

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	<p>Geo-Spatial Techniques</p> <p>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</p>	32

	spatial analysis are also introduced to broaden the student’s perspective. The course fosters technical skills along with critical thinking, enabling students to effectively apply geo-spatial techniques in solving complex urban challenges.	
B	<p>Built Form and Regulations</p> <p>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.</p>	32
C	<p>Inclusive Urban Planning</p> <p>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.</p>	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.	
CO-2	Evaluate professional, ethical, and sustainability considerations in decision-making within the selected domain of study.	
CO-3	Communicate ideas, processes, and outcomes effectively using discipline-appropriate methods, both independently and collaboratively, and encourage adaptability and continuous growth.	
CO-4	Create innovative, sustainable, and context-sensitive solutions or projects informed by current global and local practices.	

List of Open learning website:

- a. NPTEL - Swayam
- b. Coursera
- c. IIRS - Outreach Program

List of Open Source Software:

- a. QGIS
- b. Autocad

FOR STUDIO SESSIONS:

List of Exercises:

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

SARVAJANIK UNIVERSITY

**M.ARCH. (URBAN DESIGN) & M.PLAN. (URBAN & REGIONAL PLANNING)
INSTITUTE OF DESIGN PLANNING & TECHNOLOGY (IDPT)**

SUBJECT GROUP	YEAR 1						YEAR 2							
	(Foundation)						(Exploration)							
	SOCIALLY RESPONSIVE						CRITICALLY EVOLVED							
	Foundation Semester		M.Arch (UD)		M.Plan. (URP)		M.Arch (UD)		M.Plan. (URP)		M.Arch (UD)		M.Plan. (URP)	
SEM 1	Credits	SEM 2	Credits	SEM 2	Credits	SEM 3	Credits	SEM 3	Credits	SEM 4	Credits	SEM 4	Credits	
Major Course	Urban Foundation Studio	8	Inclusive & Sustainable Urban Design Studio	8	Urban Planning Studio	8	Urban Transformation Studio	8	Regional Planning Studio	8	Urban Design Practice	3	Professional Practices for Planners	3
	Urban Planning Processes & Techniques	3	Urban Landscape	3	Metropolitan Regional Planning and Development	3	Project Planning and Development Finance			3				
			Planning Legislation & Urban Governance			3	Urban Conservation	3	Sustainable Urban Development & Climate Change		3			
Minor Course	Urban History & Theory	2	Transportation Planning & Urban Mobility			2	Space Culture & Urban Design	2	Rural Planning & Management		2			
	Infrastructure Planning	2				Research Methodology		2						
	Housing Planning & Management	2												
	Urban Ecology	2												
Interdisciplinary/Multidisciplinary Courses			Urban Sociology			2								
			Urban Economics			2								
Ability Enhancement Courses			Professional Elective 1			2	Professional Elective 2			2	Professional Elective 3			2
Skill Enhancement Courses	Urban Cartography and GIS	3												
Value-Added & Elective Courses						Transdisciplinary Open Elective 1			2	Transdisciplinary Open Elective 2			2	
Summer Internship									Professional Training			4		
Research Project / Dissertation									Thesis			13		
Credits / Contact Hours		22		22		22		22		22		24		24
No. of Subjects	7		7		7		7		7		5		5	

