



CURRICULUM FOR

MASTER OF PLANNING

(URBAN AND REGIONAL PLANNING)

M.PLAN. (URP)

(ANNEXURE III-e)

॥ 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:

Sarvajanik School of Planning

MITRAJ SARVAJANIK

INSTITUTE OF DESIGN, PLANNING & TECHNOLOGY

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Dr. Rajesh Pandya (Ex. Deputy Commissioner) , Ar. Shyanil Patel (Urban Planner & Vice Chairman , ITPI Gujarat Regional Chapter), Ar. Jaydatt Vaishnav, Prof. Utpal Sharma (Director, Institute of Architecture and Planning, Nirma University), National President of ITPI / His Nominee

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

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

Program Curriculum

Master of Planning (Urban and Regional Planning)

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

Prof. Niraj Naik Chairman, Academic & Curriculum Committee Planning	Place of the meeting Sarvajani 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 **15/04/2026** and was recommended to the '**FACULTY**' for approval.

Prof. Persi Engineer Chairman – BOS, Architecture, Design, Planning & Technology	Place of the meeting Sarvajani University	 Sign
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The Program Curriculum approved by the **Faculty of Architecture, Design, Planning & Technology** in the meeting held on **15/04/2026** and was recommended to '**ACADEMIC COUNCIL**' for approval

Prof. Persi Engineer Chairman & Dean, Faculty of Architecture, Design, Planning & Technology	Place of the meeting Sarvajani University	 Sign
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The Program Curriculum approved by the '**Academic Council of Sarvajani University**' in the meeting held on **23/04/2026**.

Mr. Ashish Desai Member-Secretary, Academic Council & Registrar, Sarvajani University	Place of the meeting Sarvajani University	 Sign
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The approved curriculum is with effect from the Academic year 2026-27, applicable to all the batches admitted from AY 2025 onwards, w.e.f AY2025-26.

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

**MASTER OF PLANNING
(URBAN AND REGIONAL PLANNING)**

Sarvajani School of Planning
MITRAJ SARVAJANIK INSTITUTE OF DESIGN,
PLANNING & TECHNOLOGY
(MS-IDPT)

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

SARVAJANIK UNIVERSITY
SURAT, GUJARAT, INDIA

VERSION 2.0

W.E.F. ACADEMIC YEAR 2025-2026

Applicable to Batch admitted in June-July 2025

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

Approved in BOS meeting dated 15/04/2026

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

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

PRELUDE

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

With the formation of Sarvajani University under the aegis of Sarvajani Education Society, a major impact is expected on the educational scenario in South Gujarat region where the Sarvajani Education society has had 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 institutions 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 Planning, Mitraj Sarvajani Institute of Design Planning & Technology (MS-IDPT) will have full freedom to formulate and execute its progressive and liberal syllabus, it becomes all the more important to come up with syllabus that is meaningful and deliverable that are relevant for the postgraduate programme in Urban and Regional Planning. With a strong faculty strength and a rich mix of experience and expertise, Today, MS-IDPT comprises four vibrant schools: the Faculty of Architecture, the Sarvajani Colourtex School of Interior Design, the Sarvajani School of Fine Arts, and the Faculty of Planning. MS-IDPT is all set to start the voyage for the new era that it is entering by becoming a constituent of the Sarvajani University.

Master of Planning (Urban and Regional Planning), abbreviated as M.Plan.(URP), is a two year full time Master's degree programme in planning aimed to equip the students with adequate skills required to comprehend urban and regional issues and to analyse physical, socio-economic, cultural, political and ecological dimensions of the human settlements. The course is designed to provide necessary exposure to various planning processes, emerging trends and other related advanced technical know-how. It intends to contribute towards the creation of professionals in the field of planning and hence to cater to the specific needs of industry and academics. During the course, the students will be provided with ample opportunities to interact with subject experts and relevant organizations on many projects. The course enables students to gain real time experience through their involvement in on-going or live projects.

Guidelines given by AICTE and ITPI are followed to form the broader framework of the syllabus and the distribution of courses ensures holistic development of students. Components of Humanities, Skill enhancement courses, a plethora of professional and open electives to promote trans-disciplinary learning and various professionals are included abilities to constitute relevant syllabus content. Inputs from The Orienting Planning Education in Line with NEP 2020 guidelines circulated by Institute of Town Planners, India (ITPI) - November 2024 is also incorporated in the syllabus.

The syllabus for M.Plan.(URP) not only offers opportunities and avenues to learn core subjects but also explores additional avenues of learning beyond the core subjects for holistic development of an individual.

VISION:

To strive for creation of just, inclusive, sustainable and resilient settlements from local to regional level by promotion of social justice, cultural diversity, resource conservation and economic opportunities through excellence in Urban and Regional Planning education.

MISSION:

Our Mission is to create sound planning professionals, responsible decision makers, good stewards of the built and natural environment, capable of innovative research, creation of knowledge for good quality of life through planning services to communities.

GRADUATE ATTRIBUTES:

1. A high level of technical understanding of the processes of urban planning in local, state and national jurisdictions for working effectively within legal frameworks in the development, implementation and administration of statutory plans, policies and regulations.
2. An understanding of a broad range of theoretical and practical issues relating to the design, conduct and implementation of urban planning processes. Aware of challenges and opportunities posed by operating in diverse and globally oriented settings.
3. Professionalism and leadership readiness for various planning duties as an effective and ethical working team member, with commitment to shared goals, team processes and appropriate interpersonal skills, including respect, reliability, mutual supportiveness and time management.
4. Teamwork and communication skills to work efficiently with multidisciplinary teams and agencies related to urban and regional development. Readiness to work in a variety of professional environments, meeting high standards of conduct and ethical behaviour relevant to a variety of circumstances.
5. Knowledge in urban planning and related areas; enabling them to play an integrating role between the built environment disciplines, including architecture, landscape, and urban design.
6. New age Digital capabilities to map, identify, analyse and solve various planning issues. To act competently and responsibly in complex situations and in a professional and ethical manner, while understanding, promoting and actively working in the public interest.

CORE VALUES:

Resilience

We promote resilient, adaptive urban and regional planning practices that are rooted in sustainable communities, new and old, respecting the natural environment and diverse cultures.

Social Justice

We value social justice through a commitment to diversity, equity, and inclusion. We educate and empower students to promote these values in their personal lives and professional practice.

Critical Inquiry

We promote critical inquiry to advance knowledge and benefit society through creative and innovative approaches to studying and enhancing the built and natural environment.

Innovation

We encourage innovative and engaged research, education, and professional practice that promotes meaningful transformation in the field of urban and regional planning.

Collaboration

We collaborate across disciplines and communities to ensure people-centric planning approaches that shape the built environment. Through interdisciplinary alliances, we help communities leverage their assets and realize their collective aspirations.

Leadership

We develop enlightened and empathetic leaders who advance sound values by respecting local knowledge in balance with specialized knowledge.

PROGRAMME OUTCOME (PO):

1. **Advanced Knowledge:** In-depth knowledge in planning and its application.
2. **Problem Analysis:** Ability to analyze complex urban and regional issues.
3. **Design & Development:** Skills in designing appropriate planning solutions.
4. **Research Aptitude:** Capacity to undertake research and interpret data.
5. **Modern Tool Usage:** Use of geospatial, statistical, and planning 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 Planning Practice Awareness.**

PROGRAMME SPECIFIC OUTCOME (PSO):

1. **Urban and Regional Development Planning**
Demonstrate proficiency in formulating and implementing comprehensive development plans, master plans, regional strategies, and spatial policies that guide equitable and sustainable urban growth.
2. **Regulatory Frameworks and Land Management**
Apply land use planning, development control regulations, and statutory instruments to effectively manage and regulate urban development, land resources, and urban expansion.
3. **Infrastructure, Housing, and Mobility Systems**
Design and assess integrated strategies for urban infrastructure, affordable housing, and multimodal transportation systems to enhance urban efficiency, resilience, and inclusivity.
4. **Urban Environment, Climate Resilience and Sustainability**
Develop planning interventions addressing environmental degradation, climate change, disaster risk, and ecosystem restoration for creating healthy urban and regional environments.
5. **Urban Governance, Finance, and Project Management**
Engage with institutional frameworks, governance mechanisms, and financial instruments to design, implement, and evaluate urban projects, public-private partnerships, and community-led initiatives.

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.



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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. PLAN. (URP) - 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. PLAN. (URP) - 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	MPUP21201	Major	Urban Planning Studio	8	0	8	8	50/100	50/100	200
2	MPUP21202	Major	Metropolitan Regional Planning and Development	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

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



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M. PLAN. (URP) - 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	MPUP21301	Major	Regional Planning Studio	8	0	8	8	50/100	50/100	200
2	MPUP21302	Major	Sustainable Urban Development & Climate Change	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	MPUP22303	Minor	Rural Planning & Management	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. PLAN. (URP) - 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	MPUP21401	Major	Thesis	13	0	13	13	82/163	81/162	325
2	MPUP21402	Major	Professional Practice for Planners	3	2	1	3	19/37	19/38	75
3	MFEL14401	Ability Enhancement	Professional Elective-3	2	2	0	2	13/25	13/25	50
4	MFEL16402	Value Added Elective	Transdisciplinary Elective-2	2	2	0	2	13/25	13/25	50
5	MFGN17401	Summer Training	Professional Training	4	-	-	-	-	50/100	100
				24	6	14	20			600

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



General Notes:

L= Lecture, S= Studio

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

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Year: M.Plan. (URP) I (Semester I)

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

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

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

Prerequisite (if any): - NA

List of Courses where this course will be prerequisite: -

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

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

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

Content:

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



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

Suggested Specification table for Evaluation:

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

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

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





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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	1st Edition
2.	A New Theory of Urban Design	Christopher Alexander	Oxford University Press, London	1987	1st Edition
3.	Urban Space	Rob Krier	Academy Editions, London	1991	Reprint (Original 1979)
4.	Ancient & Medieval Town Planning in India	Prabhakar Begde	Carolina Academic Press., Delhi	1978	1st Edition
5.	City Shaped: Urban Patterns And Meanings Through History	Spiro Kostof	Thames and Hudso, London	1991	1st Edition
6	City Assemble: The Elements Of Urban Form Through History	Spiro Kostof	Thames and Hudso, London	1992	1st Edition
7	Collage City	Colin Rowe & Fred Koetter	The MIT Press; Reprint edition	1984	Reprint (Original 1978)
8	City In History: Its Origin, Its Transformation And Its Prospects	Lewis Mumford	Secker and Warburg, London	1966	Penguin/Harvest Reprint
9	Design of Cities	Edmund Bacon	Thames and Hudson, London	1974	Revised Edition
10	Emerging Concepts in Urban Design	Geoffrey Broadbent	Taylor & Francis	1995	1st Edition

Course Outcomes:

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

List of Open learning website:

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

List of Open Source Software:

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

FOR STUDIO SESSIONS:

List of Exercises:

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

Year: M.Plan. (URP) I (Semester I)

MITRAJ SARVAJANIK INSTITUTE OF DESIGN, PLANNING & TECHNOLOGY						
Faculty		FADPT		Programme		M.Plan. (URP)
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/periodic assessment conducted by institute.

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

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

Prerequisite (if any): - NA

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

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

Content:

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



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

Suggested Specification table for Evaluation:

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

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

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



Reference Books:

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

Course Outcomes:

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

List of Open learning website:

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

List of Open Source Software:

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

List of Exercises:

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

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Year: M.Plan. (URP) I (Semester I)

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

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

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

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

Prerequisite (if any): - NA

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

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

Content:

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



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

Suggested Specification table for Evaluation:

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

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

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

Reference Books:

Sr No	Title of book /article	Author(s)	Publisher 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 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.Plan. (URP) I (Semester I)

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

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

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

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

Prerequisite (if any): - NA

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

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

Content:

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

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

Suggested Specification table for Evaluation:

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

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

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

Reference Books:

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



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			Research Study Series 59		
4	Urban and Regional Planning: A Systems Approach	McLoughlin, Brian J.	Rawat Publications, New Delhi; ISBN: 978-8131610480	2019	Indian Reprint
5	Infrastructure Development in India	Sethi, V.K.	New Century Publications, New Delhi; ISBN: 978-8177081466	2007	1st Edition
6	SAAR Reports (Smart Cities and Academia Towards Action & Research)	NIUA & Ministry of Housing and Urban Affairs	NIUA, New Delhi	2018	Compendium Vol. I
7	Urban Infrastructure and Governance	G. Ramesh, Nagadevara V., Naik G., Suraj A.	Routledge India; ISBN: 978-0415576758	2010	1st Edition
8	Norms and Standards for Urban Water Supply and Sewerage Services	TCPO and Ministry of Works and Housing	Government of India, New Delhi	1983	Advisory Manual
9	Elements of Water Supply and Waste Water Disposal	Fair, G. M., Geyer, J. C. and Okun, D.A.	John Wiley & Sons, New York; ISBN: 978-0471251156	1971	2nd Edition
10	Urban Water Engineering and Management	Mohammad Karamouz, et al.	Taylor & Francis Group, USA; ISBN: 978-1439813102	2010	1st Edition
11	Planning Designing and Engineering of Sustainable Urban Transport Systems	A. K. Jain	Khanna Publishers, New Delhi; ISBN: 978-9381068809	2018	1st Edition
12	Solid Waste Management Practices in Urban India: A Compendium	NIUA Team	National Institute of Urban Affairs, Delhi	2019	Compendium
13	Urban Transportation in Indian Cities: Compendium of Good Practices	NIUA & PEARL	NIUA, Delhi	2015	Final Compendium





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Course Outcomes:

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

List of Open learning website:

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

List of Open Source Software:

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

List of Exercises:

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



Year: M.Plan. (URP) I (Semester I)

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

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

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

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

Prerequisite (if any): - NA

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

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

Content:

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

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

Suggested Specification table for Evaluation:

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

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

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

Reference Books:

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



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			ISBN: 978-0442220037		
4	Residential Density	Diamond, A.J.	Journal of Architectural Education (JAE)	1976	JAE, Vol. 19, No. 3
5	Housing in India	Francis Cherunilam and Odeyar D. Heggade	Himalaya Publishing House, Bombay; ISBN: 978-8174932174	1987	1st Edition (Revised 1997)
6	Review of Literature on Housing Programme for the Urban Poor in India	De, Prasanta	Reader on Housing, CEPT, Ahmedabad	1988	Monograph/Reader
7	The Evolution of Housing Concepts 1870-1970	Frampton, K.	Lotus International	1975	Lotus, No. 10, Nov. 1975
8	National Housing Policy	Ministry of Urban Development	Government of India, New Delhi	1988	First Policy Document
9	Housing Condition and Situation	NBO (National Buildings Organisation)	Handbook of Housing Statistics, GOI, New Delhi	1980	Annual Statistical Report
10	Introduction to Urban Housing Design	Graham Towers	Routledge; ISBN: 978-0750659024	2005	1st Edition
11	Communitas: Means of Livelihood and Ways of Life	Goodman, Paul and Percival	New York: Vintage Books; ISBN: 978-0394701745	1960	2nd Revised Edition
12	Handbook of Housing Statistics	National Buildings Organisation (NBO)	Building Organization, Government of India	1981	1981 Edition
13	Housing for the lowest income group: the Calcutta experience	Rosser, C.	Ekistics, Vol. 31, No. 183	1971	Journal Article
14	Housing Situation in Greater Bombay	Ramachandran, P.	CIDCO Report No. 2, Bombay; Tata Institute of Social Sciences	1972	CIDCO Report Series



Course Outcomes:

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

List of Open learning website:

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

List of Open Source Software:

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

List of Exercises:

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

Year: M.Plan. (URP) I (Semester I)

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

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

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

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

Prerequisite (if any): - NA

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

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

Content:

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

Suggested Specification table for Evaluation:

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

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

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

Reference Books:

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

Course Outcomes:

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

List of Open learning website:

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

List of Open Source Software:

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

List of Exercises:

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

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Year: M.Plan. (URP) I (Semester I)

MITRAJ SARVAJANIK INSTITUTE OF DESIGN, PLANNING & TECHNOLOGY						
Faculty	FADPT			Programme	M.Plan. (URP)	
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						
Credits	L	S	Total	CCE	SEE	Total
3	2	1	3	19/37	19/38	75

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

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

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

Prerequisite (if any): - NA

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

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

Content:

Sr. No.	Description	No. of Hours
Unit 1	Mapping Tools and Techniques, Urban Scale Drawings Understanding the importance of cartography through theoretical understanding followed by exposure to various maps, Learning methods and techniques of Cartography, Learning Cartographical mapping like topography, rural/urban layers, infrastructure, natural features, etc., Learning various analytical techniques.	8
Unit 2	Understanding Basics of GIS History, ArcGIS, QGIS, Applications, Setup, Interface Understanding Basics of Remote Sensing History, Dataset, Application, Types & Programs	8

Unit 3	Learning spatial information generation through GIS mapping and its extraction. Process of Making Geo-Database Georeferencing, Types of File Extension, Layer Overlapping, Learning ArcGIS Tools & Interface Drafting & Digitalization Point, 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

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.Plan. (URP) I (Semester II)

MITRAJ SARVAJANIK INSTITUTE OF DESIGN, PLANNING & TECHNOLOGY						
Faculty	FADPT			Programme	M.Plan. (URP)	
Year	I			Version	2.0	
Semester	II			Effective From	June 2025	
Course Code	MPUP21201			Course Name	Urban Planning Studio	
Course Type	Major				-	
Teaching Scheme				Examination Scheme		
Credits	L	S	Total	CCE	SEE	Total
8	-	8	8	50/100	50/100	200

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

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

Prerequisite (if any): - NA

List of Courses where this course will be prerequisite: - This course provides essential foundational knowledge for all advanced planning courses, including metropolitan and regional planning across various scales practiced in India. It builds critical understanding needed for formulating planning proposals and development frameworks. The concepts and skills developed here are vital for undertaking planning thesis work. Most importantly, it prepares students for effective and informed professional practice in the field.

Rationale: - A strong grasp of development planning and TP scheme mechanisms is crucial for navigating India's multi-scale statutory planning framework. This course equips students with practical skills in land management, zoning, and implementation strategies. Such competencies are indispensable for both academic research and real-world planning practice.

Content:

Sr. No.	Description	No. of Hours
Unit 1	Project Foundation During the first week, students will be introduced to the project brief and the study area.	24
Unit 2	Collecting the Evidence Students will be divided into small groups to undertake a desk study of the planning and policy context for the study area. This will primarily involve a review of policy documents, that provide the wider strategic context for our study, and secondary data, which will provide an evidence-base to inform both our analysis and future development options. Four themes will be examined: • Policy context • Socio-economic context • Local urban context • Hinterland/Regional context	24



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Unit 3	Physical and Spatial Survey This stage involves a field trip to a study area to undertake a survey of the urban structure and physical planning context. This involves two core tasks: • a survey of the urban structure and urban growth; and • survey of thematic areas.	24
Unit 4	Physical and Spatial Analysis Urban Analysis Based on the survey undertaken in stage 3 above, students will complete the analysis of the information collected and prepare a visual presentation material of their findings.	16
Unit 5	Visioning A comprehensive analysis based on the analysis undertaken in previous stages of the project, and provides a basis for 'brainstorming' issues and synthesising findings to date. The class will work towards developing a vision statement and a set of future development goals for the study area.	16
Unit 6	Realizing Future Development Options At this stage, the class group is required to arrive at specific objectives for the future development of the town. These objectives are to be reached through a plenary session and group discussion. The specific objectives will be informed by the analysis undertaken in the above stages.	16
Unit 7	Final presentation of development/ master plan options In this final stage, students are expected to provide a summary of their town study and to visually and orally present their final development options.	08

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	Making Sense of Cities: A Geographical Survey	Blair Badcock	Routledge; ISBN: 978-0340742396	2002	1st Edition
2	New Movement in Cities	Brian Richards	Studio Vista / Littlehampton; ISBN: 978-0289279014	1966	1st Edition



3	History of Urban Form Before the Industrial Revolution	A.E.J. Morris	Longman Scientific & Technical; ISBN: 978-0582301542	1994	3rd Edition (Commonly cited 1994/95)
4	New Urbanism and Beyond: Designing Cities for the Future	Tigran Haas (Ed.)	Rizzoli, New York; ISBN: 978-0847831111	2008	1st Edition
5	The Sustainable Urban Development Reader	Wheeler, Stephen M. & Beatley, T.	Routledge; ISBN: 978-0415707763	1998	3rd Edition (Note: Often refers to the 'Reader')
6	Suburban Nation: The Rise of Sprawl and the Decline of the American Dream	A. Duany, E. Plater-Zyberk, and Jeff Speck	North Point Press; ISBN: 978-0865477506	2010	10th Anniversary Edition
7	The Death and Life of Great American Cities	Jane Jacobs	Vintage Books / Random House; ISBN: 978-0679741954	1992	Reissue (Original 1961)
8	Trade, Ideology and Urbanization: South India 300 BC to AD 1300	R. Champakalakshmi	Oxford University Press, New Delhi; ISBN: 978-0195647044	1999	1st Edition (Paperback)
9	The City of Tomorrow and Its Planning	Le Corbusier	Dover Publications; ISBN: 978-0486253329	1987	Reissue (Original 1929)
10	The New Urbanism: Toward an Architecture of Community	Peter Katz	McGraw-Hill Education; ISBN: 978-0070334847	1993	1st Edition

Course Outcomes:

Sr. No.	CO statement	Marks % weightage
CO-1	Evaluate the policy context for local planning and development plans: Understand and critically assess the local planning framework, including the formulation and implementation of development plans, and the role of planning policies in guiding urban growth and development.	10%
CO-2	Analyze the inter-related aspects of the planning process, including town planning schemes: Demonstrate a comprehensive understanding of how various planning elements—such as environmental, social, economic, legal factors, and town planning schemes—interact to shape urban development strategies and guide future growth.	30%

CO-3	Develop essential planning skills for site development and town planning schemes: Cultivate the ability to conduct thorough planning analysis, formulate clear goals, and design effective site development strategies within the context of development plans and town planning schemes.	15%
CO-4	Appreciate the value of critical reflection and feedback in the context of urban development planning: Recognize the importance of professional growth through continuous critical reflection, informed by faculty and peer feedback, especially in relation to development plans and town planning schemes.	25%
CO-5	Enhance teamwork and communication skills in urban planning: Strengthen collaborative abilities while improving oral, written, diagrammatic, and presentation skills, ensuring effective communication of planning ideas and solutions related to development plans, town planning schemes, and other planning initiatives.	20%

List of Open learning website:

- NPTEL (National Programme on Technology Enhanced Learning)
Website: <https://nptel.ac.in>
- Alison – Urban Town Planning and Design <https://alison.com/course/urban-town-planning-and-design>

List of Open Source Software:

- Arc GIS
- QGIS
- Google Earth Engine
- OpenStreetMap

List of Exercises:

Sr. No.	Studio Exercises / Assignments for CCE
1	Existing Situation Analysis Conduct a physical and spatial survey of a designated urban area to document existing urban structure and land use patterns
2	SWOT Analyze collected data to identify key planning issues and prepare visual materials summarizing spatial and thematic findings.
3	Visioning & Conceptual Plan Develop and present a vision statement along with Conceptual Plan
4	DP Proposal (DP Reports) development goals and master plan options for the study area.
5	Proposed Land Use Plan & DCR

Year: M.Plan. (URP) I (Semester II)

MITRAJ SARVAJANIK INSTITUTE OF DESIGN, PLANNING & TECHNOLOGY						
Faculty		FADPT			Programme	M.Plan. (URP)
Year		I			Version	2.0
Semester		II			Effective From	June 2025
Course Code		MPUP21202			Course Name	Metropolitan Regional Planning & Development
Course Type		Major				
Teaching Scheme				Examination Scheme		
Credits	L	S	Total	CCE	SEE	Total
3	2	1	3	19/37	19/38	75

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

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

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

Prerequisite (if any): - NA

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

Rationale: - Understanding large-scale spatial systems and regional dynamics is fundamental to effective urban and regional planning. This course equips students with the skills to interpret complex data, identify development trends, and formulate strategic interventions. Such competencies are essential for advanced academic work and professional planning practice in India's evolving urban landscape.

Content:

Sr. No.	Description	No. of Hours
Unit 1	Overview of planning; various types and levels of planning in India and their interrelationship. Concepts of Sectoral & Spatial Planning, Single and multi-level planning processes, National Development Planning Mechanism.	3
Unit 2	Aims, objectives and evolution of Metropolitan Regional Planning, Review of present-day opinions on the subject.	3
Unit 3	Introduction to Regional planning techniques- classification of regions, regionalization and delineation techniques for various types of regions.	6
Unit 4	Techniques of understanding spatial structure of regions- Analysis of structure of Nodes, hierarchy, nesting and rank-size.	6



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Unit 5	Cluster and Factor analysis methods- use of Remote Sensing in Regional Planning.	6
Unit 6	Regional Planning Theories: Growth pole theory, Christaller's theory, Weber's theory of Location, Core periphery theory and Spread and Back Wash theory.	6
Unit 7	National Development issues and Key policies in regard to Regional disparities and imbalances, Urbanization, industrialization and related issues, poverty and unemployment, urban and rural programs and strategies for poverty eradication.	6
Unit 8	Regional planning efforts in India, critical appraisal, Regional Development Plans types, scopes and objectives, case studies.	6
Unit 9	Regional development models- their structure and characterization and construction; delineation of regions and regionalization methods and techniques: Economic regionalization, composite regionalization.	6

Suggested Specification table for Evaluation:

Distribution of Evaluation					
R Level	U Level	A Level	N Level	E Level	C Level
25%	20%	5%	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	Development with Dignity: A Case for Full Employment	Amit Bhaduri	National Book Trust, India; ISBN: 978-8123745961	2006	1st Edition
2	On Capitalist Underdevelopment	Andre Gunder Frank	Oxford University Press; ISBN: 978-0195604757	1975	1st Edition
3	Theatres of Accumulation: Studies in Asian and Latin American Urbanization	Armstrong, W. and McGee, T.G.	Methuen, London; ISBN: 978-0416398007	1985	1st Edition
4	Spatial Dynamics of International Capital	Banerjee-Guha, S.	Orient Longman, Hyderabad; ISBN: 978-8125011989	1997	1st Edition
5	Marxist Theories of Imperialism: A Critical Survey	Brewer, A.	Routledge and Kegan Paul; ISBN: 978-0710005311	1980	1st Edition



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6	Globalization and the South	Caroline Thomas and Peter Wilkin	Macmillan Press Ltd; ISBN: 978-0333685457	1997	1st Edition
7	The Companion to Development Studies	Desai Vandana and Potter B. Robert	Hodder Education / Viva Books; ISBN: 978-0340889145	2011	2nd Edition (Reprint)
8	Geography and Inequality	Coates, B. E., Johnston, R. J. and Knox. P.L.	Oxford University Press; ISBN: 978-0198740698	1977	1st Edition
9	The Geography of Underdevelopment	Forbes, D.K.	The Johns Hopkins University Press; ISBN: 978-0709910121	1984	1st Edition
10	Dependent Accumulation and Underdevelopment	Frank, A.G.	The MacMillan Press. London; ISBN: 978-0333239513	1978	1st Edition

Course Outcomes:

Sr. No.	CO statement	Marks % weightage
CO-1	Understand the typology of regions and their spatial characteristics: Gain comprehensive knowledge of various regional typologies in India, focusing on their geographical, economic, and social characteristics, and how regions are classified based on these factors.	25%
CO-2	Analyze the inter- and intra-regional linkages: Develop an understanding of the interconnections between regions (inter-regional) and within regions (intra-regional), focusing on the economic, social, infrastructural, and cultural relationships that define these linkages.	15%
CO-3	Explore the paradigm shift in regional definitions and scale: Examine the evolution of the concept of regions, with particular attention to how regional definitions and scales have shifted over time in response to economic changes, urbanization, and globalization.	15%
CO-4	Understand the statutory framework and mechanisms of regional planning in India: Gain in-depth knowledge of the legal and institutional framework governing regional planning in India, including key statutes, policies, and agencies involved in regional planning, as well as the mechanisms for implementing regional development plans.	15%
CO-5	Study regional planning theories and approaches: Explore the foundational and contemporary theories of regional planning, including both top-down and bottom-up approaches, and assess their relevance and application in India's regional development context.	20%
CO-6	Evaluate the prospects and challenges of regional planning in India: Analyze the future prospects of regional planning in India, considering the challenges of sustainable development, urbanization, and regional disparities, and explore strategies for promoting balanced regional growth.	10%



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. Arc GIS
- B. QGIS
- C. GeoDa
- D. Bhuvan (ISRO's Geoportal)

List of Exercises:

Sr. No.	Studio Exercises / Assignments for CCE
1	Delineate and classify a region using regionalization techniques based on socio-economic and spatial data.
2	Analyze the spatial structure of a selected region using node hierarchy and rank-size distribution methods.
3	Critically review a regional development plan in India and assess its objectives, strategies, and effectiveness.

Year: M.Plan. (URP) I (Semester II)

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

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

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

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

Prerequisite (if any): - NA

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

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

Content:

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



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





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

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

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

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

Reference Books:

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





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6	The Gujarat Housing Board Act, 1961	Gujarat State Legislature	Government of Gujarat, Gandhinagar	1961	State Act
7	The Gujarat Municipal Finance Board Act, 1979	Gujarat State Legislature	Government of Gujarat, Gandhinagar	1979	State Act
8	The Gujarat Slum Areas (Improvement, Clearance and Redevelopment) Act, 1976	Gujarat State Legislature	Government of Gujarat, Gandhinagar	1976	State Act
9	The Gujarat Regularization of Unauthorised Development Act, 2001 (GRUDA)	Gujarat State Legislature	Government of Gujarat, Gandhinagar	2001	State Act
10	The Gujarat Municipalities Act, 1963	Gujarat State Legislature	Government of Gujarat, Gandhinagar	1963	State Act

Course Outcomes:

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

List of Open learning website:

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



List of Open Source Software:

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

List of Exercises:

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

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Year: M.Plan. (URP) I (Semester II)

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

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

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

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

Prerequisite (if any): - NA

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

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

Content:

Sr. No.	Description	No. of Hours
Unit I	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
I	Traffic Engineering and Transport Planning	Kadiali, L.R.	Khanna Publishers, Delhi; ISBN: 978-8174092205	1999	1st Edition



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2	National Transit Oriented Development (TOD) Policy	Ministry of Housing and Urban Affairs	Government of India, New Delhi	2017	Policy Document
3	Developing Economic Corridors in South Asia	Prabir De and Kavita Iyengar	Asian Development Bank, Manila; ISBN: 978-9292548247	2014	1st Edition
4	The Role of Transport and Transit Corridors in Fostering International Cooperation...	UN-HABITAT	UN-HABITAT, Nairobi	2015	Recommendations Report
5	How does transportation facilitate regional economic development? A heuristic mapping...	Ramesh, P., Bertolini, L., & Brommelstroet, M.	Transport Reviews / Elsevier; ISSN: 0144-1647	2023	Journal Article
6	Enhancing station level Direct-Demand models with Multi-Scalar accessibility indicators	Luis Enrique Ramos-Santiago	Transportation Research Part D: Elsevier; ISSN: 1361-9209	2023	Journal Article
7	Effective Transit Transport Corridor Development and Management: Report on Best Practices	UN-OHRLLS	United Nations, New York	2020	Best Practices Report
8	Code of Practice: Part I-V (Urban Transport)	Institute of Urban Transport (India)	Ministry of Urban Development, Government of India	2012	Standard Guidelines
9	Regional Development and Planning	Jiwan J.	Rawat Publications, New Delhi; ISBN: 978-8131612057	2021	1st Edition

Course Outcomes:

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



List of Open learning website:

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

List of Open Source Software:

- A. VISSIM Transportation Simulation Software

List of Exercises:

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

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Year: M.Plan. (URP) I (Semester II)

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

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

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

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

Prerequisite (if any): - NA

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

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

Content:

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

Suggested Specification table for Evaluation:

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

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

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

Reference Books:

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

Course Outcomes:

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

List of Open learning website:

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

List of Open Source Software:

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

List of Exercises:

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

Year: M.Plan. (URP) I (Semester II)

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

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

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

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

Prerequisite (if any): - NA

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

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

Content:

Sr. No.	Description	No. of Hours
Unit 1	Urban Economy and Development: Introduction and Principles of urban economics, Analyzing the economic structure of cities, including industrial and residential locations, and the role of the informal sector, Agglomeration and Location Theory, Land Market economics, Public policies and market economics, Housing and real estate economics	8
Unit 2	Urban Labor Markets: Studying the dynamics of urban labor markets, including factors like inequality, poverty, and the impact of globalization. Urban Poverty and Inequality: Investigating the causes and consequences of urban poverty, as well as policies to address it.	8
Unit 3	Urban Governance and Local Government: Understanding the role of local governments in managing urban economies, including taxation, public finance, and service delivery, Urban and Regional Labour Markets, Sprawl and gentrification, Transportation economics, Poverty,	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: How Markets Shape Cities	Alain Bertaud	MIT Press: ISBN: 978-0262038768	2018	1st Edition
2	Urbanization and Growth	Michael Spence, P.C. Annez, & R.M. Buckley	World Bank Publications; ISBN: 978-0821375730	2009	Commission on Growth and Development
3	Principles of Microeconomics	N. Gregory Mankiw	South-Western Cengage Learning; ISBN: 978-0324589986	2009	5th Edition
4	Cities and Agglomeration Externalities: Lessons for Urban Public Policy	Prasanna K. Mohanty and Alok K. Mishra	SAGE Publications India; ISBN: 978-8132111009	2014	1st Edition
5	Cities as Engines of Inclusive Development	IIHS Team	Indian Institute for Human Settlements (IIHS)	2014	Case study / Report
6	The City as a Growth Machine: Toward a Political Economy of Place	Harvey Molotch	American Journal of Sociology (AJS)	1976 (Reprint 2013)	AJS Vol. 82, No. 2
7	India Habitat III: National Report 2016	MoHUPA	Ministry of Housing and Urban Poverty Alleviation, GoI	2016	National Report
8	The Economic Role of Cities	UN-Habitat	United Nations Human Settlements Programme	2011	Global Report

9	The Economics of Urban Form: A Literature Review	UN-Habitat	United Nations Human Settlements Programme	2015	Working Paper Series
10	Urban and Regional Economics	McCann, Philip	Oxford University Press; ISBN: 978-0198776450	2001	1st Edition
11	Urban Economics	O'Sullivan, Arthur	McGraw-Hill/Irwin; ISBN: 978-0072487558	2003	5th Edition

Course Outcomes:

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

List of Open learning website:

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

List of Open Source Software:

- A. UrbanSim
- B. R commander

List of Exercises:

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

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Year: M.Plan. (URP) I (Semester II)

MITRAJ SARVAJANIK INSTITUTE OF DESIGN, PLANNING & TECHNOLOGY						
Faculty		FADPT		Programme	M.Plan. (URP)	
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						
Credits	L	S	Total	CCE	SEE	Total
2	2	0	2	13/25	13/25	50

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

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

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

Prerequisite (if any): - NA

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

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

Content:

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



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

Suggested Specification table for Evaluation:

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

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

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



Reference Books:

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

Course Outcomes:

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

List of Open learning website:

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

List of Open Source Software:

- A. QGIS
- B. Autocad

List of Exercises:

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

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Year: M.Plan. (URP) I (Semester II)

MITRAJ SARVAJANIK INSTITUTE OF DESIGN, PLANNING & TECHNOLOGY						
Faculty	FADPT			Programme	M.Plan. (URP)	
Year	II			Version	2.0	
Semester	III			Effective From	June 2026 (For all batches admitted 2025 onwards)	
Course Code	MPUP21301	Course Name		Regional Planning Studio		
Course Type	Major			-		
Teaching Scheme				Examination Scheme		
Credits	L	S	Total	CCE	SEE	Total
8	-	8	8	50/100	50/100	200

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

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

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

List of Courses where this course will be prerequisite: -

This course offers fundamental knowledge crucial for advanced large-scale urban and regional planning studies and practices in India. It fosters critical skills for formulating planning proposals and developing comprehensive frameworks. Moreover, it equips students to undertake planning thesis work and ensures they are well-prepared for effective, informed professional practice in the field.

Rationale: - This course is essential because it provides foundational knowledge and critical skills required for advanced urban and regional planning, ensuring students can design effective planning proposals. It bridges theoretical concepts with practical applications, preparing students for thesis work. Most importantly, it equips them for informed and competent professional practice in planning.

Content:

Sr. No.	Description	No. of Hours
Unit 1	Introduction to Regional Planning in Indian context. At this stage, students would be exposed to Concepts and techniques of Regional Planning (including delineation techniques), guidelines, acts & case studies, policies/programmes for regional development, jurisdiction and governance aspects of regional development, planning for special regions, district development plan case mechanism.	8



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Unit 2	Preparation of the Base for Regional Plan At this stage, students would be guided for preparation of methodology and identifying the available secondary data required for the study, area profiling and base map preparation	24
Unit 3	Base Map Preparation Preparation of sector wise maps with available secondary data and primary delineation of study area	24
Unit 4	Site visit and Primary data collection This stage consist site visit for data collection. Site visit includes identification of data gap, consultation with concerned departments, preparation of different survey formats (for sector specific officials/interest groups/ sector specific primary surveys- if required)	16
Unit 5	Data Collection & Situation Assessment Updating data – spatial & non spatial data with respect to the data collected during the visit. Primary Data Collection, (consultative meetings, and interactive workshops on data/resource mobilization), Land Use Map Preparation, Existing Situation Assessment of the study region through various Regional Planning Techniques	16
Unit 6	Analysis and building inferences Analysis-including land suitability, identification of potential areas with respect to sectors, and identified studio orientation, analytical methods like SWOT, log frame, to prepare conceptual plan, proposals, strategies	16
Unit 7	Exploring Future Development Options At this stage, the class group is required to arrive at specific objectives for the future development of the region. The specific objectives will be informed by the analysis undertaken in the above stages.	16
Unit 8	Final presentation of regional plan options In this final stage, students are expected to provide a summary of their regional study and to visually and orally present their final development options.	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	An Introduction to Regional Planning: Concept, Theory and Practice	Glasson, John	Hutchinson, London / South Asian Publishers: ISBN: 978-0091196417	1974	1st Edition
2	Regional Planning: Concepts, Techniques, Policies and Case Studies	Misra, R.P.	Concept Publishing Company, New Delhi; ISBN: 978-8170224211	1992	2nd Revised Edition
3	Regional Development Planning in India: A New Strategy	Misra, R.P., Sundaram, K.V., and Rao, V.L.S.P.	Vikas Publishing House, Delhi; ISBN: 978-0706903331	1974	1st Edition
4	District Planning: A Handbook	Misra, R.P.	Concept Publishing Company, New Delhi; ISBN: 978-8170222835	1990	1st Edition (Commonly cited as 1990)
5	Regional Planning and Development	Rangasamy, S.	Meenakshi Pathippagam, Madurai	1992	1st Edition



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Course Outcomes:

Sr. No.	CO statement	Marks % weightage
CO-1	Develop a comprehensive regional development plan: Prepare an in-depth regional development plan for a selected area, applying the principles of regional planning and ensuring that the plan reflects both current realities and future growth potential in the region.	40%
CO-2	Acquire foundational knowledge in regional planning principles and practices: Gain a solid understanding of key concepts and practices in regional planning, including regional spatial structure, local public finance, development economics, infrastructure provision, and human development, to support sustainable and balanced regional growth.	20%
CO-3	Master essential skills for regional planning practice: Develop the technical and analytical skills needed for effective regional planning, including methods for defining planning areas, envisioning future changes, crafting comprehensive regional plans, and ensuring their adoption, administration, and implementation. Additionally, focus on advocating for marginalized communities and integrating environmental conservation laws and policies into the planning process.	20%
CO-4	Cultivate the values and skills necessary for effective regional planning: Foster critical problem-solving, research, and communication skills—both written and oral—along with graphical and computational skills. Enhance collaboration abilities to work with diverse communities, meet professional standards, and implement plans successfully through scenario forecasting, team collaboration, and stakeholder engagement.	20%

List of Open learning website:

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

List of Open Source Software:

- A. QGIS
- B. UrbanSim
- C. TRANUS

FOR STUDIO SESSIONS:

List of Exercises:

Sr. No.	Studio Exercises / Assignments for CCE
1	Introduction and Learning Basics This unit introduces students to the fundamentals of regional and metropolitan planning, covering essential terminologies, concepts, and scales of planning. Students will explore different types of regions and develop basic skills in cartography and GIS, providing a foundation for further study.
2	Identification and Delineation of Region and Its Study Students will learn to identify various regional typologies, such as rural, urban, and industrial regions, and apply criteria for region delineation. Through practical exercises, they will profile regions based on demographic, socio-economic, and environmental factors.
3	Data Collection and Development of Understanding of Cities This unit focuses on primary and secondary data collection methods for regional studies. Students will design field surveys, collect data in selected regions, and compile, clean, and conduct basic analysis of the data to build regional insights.
4	Synthesis, Analysis, Mapping, and Representation Students will engage in data synthesis and analysis, creating thematic maps using GIS. They will perform SWOT analysis for regional understanding and develop analytical maps and visual representations to showcase findings.
5	Project Proposal - Regional and Metropolitan Planning In this final unit, students will formulate a regional planning project, defining objectives, strategies, and concepts. They will prepare and present a comprehensive regional plan, demonstrating their understanding and application of planning principles.



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Year: M.Plan. (URP) II (Semester III)

MITRAJ SARVAJANIK INSTITUTE OF DESIGN, PLANNING & TECHNOLOGY						
Faculty	FADPT			Programme	M.Plan. (URP)	
Year	II			Version	2.0	
Semester	III			Effective From	June 2026 (For all batches admitted 2025 onwards)	
Course Code	MPUP21302	Course Name		Sustainable Urban Development & Climate Change		
Course Type	Major			-		
Teaching Scheme				Examination Scheme		
Credits	L	S	Total	CCE	SEE	Total
3	2	1	3	19/37	19/38	75

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

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

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

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

List of Courses where this course will be prerequisite: - This course serves as essential prerequisite knowledge for all advanced courses in urban and regional planning, infrastructure planning, environmental planning, and sustainable development. It builds critical understanding necessary for informed planning thesis work. Sustainable Urban Development & Climate Change addresses core ethical responsibilities of planners. It is foundational for responsible and effective professional practice in urban planning.

Rationale: - Urban planning increasingly demands climate-responsive and sustainability-oriented solutions to address complex urban challenges. This course equips students with the analytical and ethical tools to integrate sustainability into planning decisions. It ensures planners are prepared to meet contemporary environmental, social, and policy expectations in professional practice.

Content:

Sr. No.	Description	No. of Hours
Unit 1	Concepts and Theories of Sustainable Urban Development Evolution and principles of sustainability in planning, Urban metabolism and ecological footprint, Sustainable development goals (SDGs) and urban indicators, Theories: Compact city, Smart growth, Ecological urbanism	10
Unit 2	Climate Change Science and Urban Impacts	8





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	Fundamentals of climate change: causes, trends, global & regional impacts, Urban vulnerability and risk assessment, Heat islands, air pollution, urban flooding, and water stress, Climate models and scenarios relevant to urban regions	
Unit 3	Policy Frameworks and Governance International protocols: UNFCCC, IPCC, Paris Agreement, National policies: India's NAPCC, SAPCCs, and climate resilience missions, Urban climate governance: decentralization, participation, accountability, Integration of sustainability in development control and master planning	10
Unit 4	Planning Strategies for Climate-Resilient Cities Low-carbon urban planning and transit-oriented development, Green and blue infrastructure, nature-based solutions, Energy-efficient buildings and sustainable housing, Waste management, circular economy, and resource efficiency	8
Unit 5	Tools, Assessment Techniques & Case Studies Environmental Impact Assessment (EIA), Strategic Environmental Assessment (SEA), Climate vulnerability mapping, carbon budgeting, life cycle analysis, Use of GIS and remote sensing in climate-sensitive planning, Global and Indian case studies on climate-resilient urban initiatives	12

Suggested Specification table for Evaluation:

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

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

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

Reference Books:

Sr No	Title of book /article	Author(s)	Publisher and details like ISBN	Year of publication	Publication Edition
1	The Sustainable Urban Development Reader	Stephen Wheeler &	Routledge; ISBN: 978-0415707763	2014	3rd Edition



2	Cities and Climate Change: Responding to an Urgent Agenda	Daniel Hoornweg et al.	World Bank Publications; ISBN: 978-0821386668	2011	1st Edition
3	Urban Climate Change Resilience: A Critical Agenda	Vanesa Castán Broto et al.	Routledge; ISBN: 978-1138596702	2019	1st Edition
4	Sustainable Cities in India: Challenges and Opportunities	T. M. Vinod Kumar	Springer; ISBN: 978-3319610573	2017	1st Edition
5	Low Carbon Cities: Transforming Urban Systems	Steffen Lehmann	Routledge; ISBN: 978-1138017665	2014	1st Edition
6	India: Climate Policy and Urban Development	CSE Team	Centre for Science and Environment (CSE), New Delhi	2012	Research Report
7	Climate Resilient Cities: A Primer on Reducing Vulnerabilities to Disasters	Neeraj Prasad et al.	World Bank; ISBN: 978-0821377666	2009	World Bank Primer
8	Environmental Management for Sustainable Development	Christopher J. Barrow	Routledge; ISBN: 978-0415365352	2006	2nd Edition
9	Planning Sustainable Cities: Global Report on Human Settlements	UN-Habitat	Earthscan / UN-Habitat; ISBN: 978-1844078998	2009	1st Edition
10	National Action Plan on Climate Change (NAPCC)	Government of India	PMCCC, MoEFCC, Government of India	2008	Policy Document

Course Outcomes:

Sr. No.	CO statement	Marks % weightage
CO-1	Understand and apply key concepts of sustainability and climate science to analyze the impacts of urbanization on environmental systems	30%
CO-2	Evaluate and integrate national and international climate policies, frameworks, and planning tools into urban and regional development strategies.	40%
CO-3	Demonstrate ethical and professional responsibility by proposing climate-resilient and sustainable planning solutions for real-world urban challenges.	30%

List of Open learning website:

- A. **Coursera** – <https://www.coursera.org>
- B. **edX** – <https://www.edx.org>
- C. **SWAYAM** – <https://swayam.gov.in>
- D. **NPTEL** – <https://nptel.ac.in>

List of Open Source Software:

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

FOR STUDIO SESSIONS:

List of Exercises:

Sr. No.	Studio Exercises / Suggestive Assignments for CCE
1	Urban Sustainability Audit Students assess a neighborhood or ward using sustainability indicators (e.g., land use mix, green cover, walkability).
2	Climate Vulnerability Mapping u Create spatial maps highlighting climate risks (heat islands, flood-prone zones) preferably using open-source GIS tools.
3	Policy Review and Critique Analyze and present strengths and gaps in India's NAPCC or a selected State Action Plan on Climate Change.
4	Design a Climate-Resilient Urban Block Propose planning and design interventions for a small urban area incorporating green infrastructure and low-carbon strategies

Year: M.Plan. (URP) II (Semester III)

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

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

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

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

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

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

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

Content:

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



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



Suggested Specification table for Evaluation:

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

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

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

Reference Books:

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

Course Outcomes:

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

List of Open learning website:

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

List of Open Source Software:

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

List of Exercises:

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

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Year: M.Plan. (URP) II (Semester III)

MITRAJ SARVAJANIK INSTITUTE OF DESIGN, PLANNING & TECHNOLOGY						
Faculty	FADPT			Programme	M.Plan. (URP)	
Year	II			Version	2.0	
Semester	III			Effective From	June 2026 (For all batches admitted 2025 onwards)	
Course Code	MPUP22303	Course Name		Rural Planning & Management		
Course Type	Minor			-		
Teaching Scheme				Examination Scheme		
Credits	L	S	Total	CCE	SEE	Total
2	1	1	2	13/25	13/25	50

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

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

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

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

List of Courses where this course will be prerequisite: - The course "Rural Planning & Management" serves as a prerequisite for advanced courses such as Advanced Rural Development Planning, which delves into complex rural development strategies; Regional Planning and Development, focusing on the integration of rural and urban areas; Sustainable Rural Infrastructure Planning, emphasizing sustainable design and management; Climate Resilient Planning for Rural Areas, covering climate adaptation strategies; Rural Land Use and Environmental Management, for effective land and resource management; Advanced Project Planning and Development Finance for Rural Areas, offering insights into rural project formulation and finance; and the Planning Thesis (Rural Planning Focus), where students apply rural planning concepts in research.

Rationale: - This course is essential as it provides foundational knowledge of rural planning, governance, and sustainable development, which are critical for advanced planning studies. It equips students with skills to understand rural-urban linkages, manage rural infrastructure, and integrate climate resilience. These competencies are crucial for advanced coursework and effective professional practice in urban and regional planning.

Content:

Sr. No.	Description	No. of Hours
Unit 1	Introduction to Rural Planning and Management: Overview of rural planning, its importance, and challenges in India.	4
Unit 2	Rural Development Theories and Concepts: Key theories of rural development and their application in the Indian context.	4



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Unit 3	Policy and Institutional Framework for Rural Development: Examination of major policies such as MGNREGA, Pradhan Mantri Awas Yojana, and the role of Panchayati Raj institutions.	4
Unit 4	Land Use Planning in Rural Areas: Challenges in land use management, agricultural land use, and rural housing.	4
Unit 5	Rural Economy and Livelihoods: Analysis of rural economy, employment, and income generation, including sustainable agricultural practices.	4
Unit 6	Infrastructure Development in Rural Areas: Infrastructure needs, including roads, water supply, sanitation, and energy.	4
Unit 7	Rural-Urban Linkages and Migration: The impact of migration on rural development, and planning for urbanization in rural areas.	4
Unit 8	Environmental Management in Rural Planning: Sustainable environmental management, natural resource conservation, and climate change adaptation.	2
Unit 9	Gender and Social Inclusion in Rural Development: Incorporating gender equality and social justice in rural planning.	1
Unit 10	Case Studies and Practical Applications: Detailed case studies of rural planning projects in India (e.g., Smart Villages, Integrated Rural Development).	1

Suggested Specification table for Evaluation:

Distribution of Evaluation					
R Level	U Level	A Level	N Level	E Level	C Level
20%	20%	20%	20%	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
1	Rural-Urban Linkages in India: Evidence from Census Data	Bhagat, R. B.	Economic and Political Weekly (EPW); ISSN: 0012-9976	2012	EPW, Vol. 47, Issue 34
2	Rural Development: The Indian Experience	Panchmukhi, P. R.	Sage Publications, New Delhi; ISBN: 978-0761996163	2004	1st Edition





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3	Rural Planning and Development in India: Theories, Policies, and Implementation	Chakrabarti, A., & Sundaram, V.	Oxford University Press; ISBN: 978-0198098935	2014	1st Edition
4	Rural Development and Women's Empowerment in India	Agarwal, B.	Oxford University Press; ISBN: 978-0195651928	2000	1st Edition
5	Rural Development: Indian Perspectives	Srinivasan, P., & Sundaram, A.	ICFAI University Press; ISBN: 978-8131404119	2006	1st Edition
6	Urban and Rural Development: A Historical Perspective	Kundu, A.	Springer / Academic Foundation; ISBN: 978-8171883348	2004	1st Edition
7	Rural Development and Governance in India: A Case for Comprehensive Planning	NIRDPR (National Institute of Rural Development)	NIRDPR Publications, Hyderabad	2016	Special Issue / Report
8	Regional Planning and Development: A Focus on Rural India	Nayak, R.	Academic Foundation, New Delhi; ISBN: 978-8171889890	2013	1st Edition
9	Rural Development and Planning in India: Problems and Solutions	Gupta, S. K., & Sharma, S. S.	Concept Publishing Company; ISBN: 978-8180691775	2005	1st Edition
10	Planning for Rural Development in India: A Review of Strategies and Implementation	Lal, S., & Sahu, D.	Sage Publications; ISBN: 978-9386446152	2017	1st Edition

Course Outcomes:

Sr. No.	CO statement	Marks % weightage
CO-1	Understand the Key Concepts of Rural Planning: Students will develop a thorough understanding of rural development theories, rural land use planning, and management principles in the Indian context.	25%
CO-2	Analyze Rural Development Policies: Students will evaluate national and state-level rural development policies, including the Panchayati Raj system and various government initiatives.	25%
CO-3	Apply Planning Techniques to Rural Areas: Students will apply planning tools and techniques to address rural challenges such as infrastructure deficits, resource management, and rural-urban integration.	25%
CO-4	Develop Sustainable Rural Development Strategies: Students will design strategies for sustainable rural development, considering social, environmental, and economic dimensions specific to India.	25%

List of Open learning website:

- A. NPTEL (National Programme on Technology Enhanced Learning)
Website: <https://nptel.ac.in>
- B. SWAYAM (Study Webs of Active Learning for Young Aspiring Minds)
<https://swayam.gov.in>

List of Open Source Software:

- A. Indiatat (Data Platform for Rural Development and Statistics)
- B. LibreOffice Calc (Spreadsheet Software for Data Analysis and Management)
- C. Bhuvan (ISRO's Geoportal for Rural Mapping and Planning)

List of Exercises:

Sr. No.	Studio Exercises / Assignments for CCE
1	Rural Development Programs and Schemes - Exercises on mapping rural schemes, analyzing successful programs, and designing rural project proposals.
2	Rural Planning – Detail Project Report on Enhancing Infrastructural Facilities

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Year: M.Plan. (URP) II (Semester III)

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

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

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

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

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

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

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

Content:

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

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

Suggested Specification table for Evaluation:

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

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

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

Reference Books:

Sr No	Title of book /article	Author(s)	Publisher and details like ISBN	Year of publication	Publication Edition
1.	Research Methodology: Methods and Techniques	Kothari, C.R. & Garg, G.	New Age International, New Delhi	2019	4 th Edition
2.	Research Design: Qualitative, Quantitative, and Mixed Methods Approaches	Creswell, John W.	Sage Publication	2023	6 th Edition
3.	Research Methods for Construction	Fellows, Richard & Liu, Anita M.M.	Wiley Blackwell	2021	5 th Edition



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4.	Research Methodology: A Step-by-Step Guide for Beginners	Kumar, Ranjit	Sage Publication	2005	2 nd Edition
5.	Social Research Methods: Qualitative and Quantitative Approaches	Neuman, W. Lawrence	Pearson Education	2021	8 th Edition
6.	Methods in Social Research	Goode, William J. & Hatt, Paul K.	McGraw Hill	1952	1 st Edition
7.	Social Research Methods	Bryman, Alan			
8.	Case Study Research and Applications: Design and Methods	Yin, Robert K.	Sage Publication	2018	6 th Edition
9.	Research Ethics and Guidelines (Policy Document)	Indian Council of Social Science Research (ICSSR)			

Course Outcomes:

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

List of Exercises:

Sr. No.	Studio Exercises / Assignments for CCE
1	Research Problem Formulation - Students draft a clear research problem statement, objectives, and hypothesis based on a given urban planning issue.
2	Survey Design Exercise - Design a short questionnaire targeting a planning-related topic using appropriate question types and sampling methods.



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3	Qualitative vs. Quantitative Comparison - Analyse a sample study to identify qualitative and quantitative elements and discuss their strengths and limitations.
4	Research Proposal Outline - Prepare a brief research proposal including title, background, objectives, methodology, and expected outcomes.



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Year: M.Plan. (URP) II (Semester III)

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

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

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

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

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

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

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

Content:

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



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



Suggested Specification table for Evaluation:

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

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

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

Reference Books:

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

Course Outcomes:

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

List of Open learning website:

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

List of Open Source Software:

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

List of Exercises:

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

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Year: M.Plan. (URP) II (Semester III)

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

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

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

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

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

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

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

Content:

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



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



Suggested Specification table for Evaluation:

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

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

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

Reference Books:

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

Course Outcomes:

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

List of Open learning website:

- A. NPTEL - Swayam
- B. Coursera

List of Open Source Software:

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

List of Exercises:

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

Year: M.Plan. (URP) II (Semester IV)

MITRAJ SARVAJANIK INSTITUTE OF DESIGN, PLANNING & TECHNOLOGY						
Faculty	FADPT			Programme	M.Plan. (URP)	
Year	II			Version	2.0	
Semester	IV			Effective From	June 2026 (For all batches admitted 2025 onwards)	
Course Code	MPUP21401	Course Name		Thesis		
Course Type	Major			-		
Teaching Scheme				Examination Scheme		
Credits	L	S	Total	CCE	SEE	Total
13	0	13	13	82/163	81/162	325

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

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

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

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

List of Courses where this course will be prerequisite: - The Urban and Regional Planning Thesis course serves as a prerequisite for advanced courses such as Sustainable Urban Development and Smart Cities, Climate Resilient Urban Planning, Affordable Housing and Slum Redevelopment, Urban Mobility and Public Transportation Planning, Heritage Conservation and Urban Regeneration, Land Use Planning and Zoning Regulations, Urban Informality and Inclusive Development, Green Infrastructure and Urban Ecology, GIS and Spatial Analysis, Disaster Risk Reduction and Urban Resilience, Rural-Urban Linkages and Regional Development, and Urban Governance and Policy Analysis. These courses build on the critical understanding and research skills gained during the thesis, ensuring students are well-prepared for advanced studies and professional practice.

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

Content:

Each student is required to prepare a thesis on a subject concerning urban planning and development, (presented through a seminar) and under the guidance of an advisor, approved by the department.

The subject of the thesis may be conceptual, historical analytical, comparative or in any other area related to urban planning and development, which will be approved by the departmental jury, in stages. Development of the thesis is to be done at this stage through delineation of project area, case studies, literature studies, and survey and data collection only. Appreciation of decision-making process and the process in relation to varied consultancy assignments in planning.



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The student is required to defend his thesis through drawings, reports, study sheets, models and digital presentations and verbal communications in all the reviews and the final jury.

Sr. No.	Description	No. of Hours
Unit 1	Project Synopsis • Background Study & Context • Topic Identification & Selection • Problem Statement & Research Gap • Need / Justification • Aim & Objectives • Scope & Limitations • Research Methodology (Qualitative / Quantitative / Mixed) • Expected Outcomes <i>Output: Synopsis Report</i>	24
Unit 2	Literature Review & Secondary Research • Theoretical Framework (Books, Policies, Journals) • Review of Standards, Codes, Guidelines • Precedent Studies (National / International) • Identification of Parameters for Analysis <i>Output: Literature Matrix + Inference Diagrams through Presentation</i>	24
Unit 3	Site Study, Data Collection & Analysis A) Data Collection & Documentation • Primary Surveys (Surveys, Photographic Documentation) • Secondary Data (through Web, Library, Reports & References etc.) B) Site & Context Analysis • Existing Situation Analysis • Regional Context / Urban Linkages • Land Use, Density, Mobility, Infrastructure etc. Sectoral Analysis • Socio-Economic Profile • SWOT Analysis <i>Output: Analytical Drawings + Thematic Maps + ESA Presentation</i>	48
Unit 4	Case Studies & Program Strategies • Relevant Case Studies / Best Practices • Comparative Analysis	24



	• Key Learnings & Inferences, Vision for the project leading to conceptual stage • Program Formulation through Methodology • Expected Outcome <i>Output:</i> Case Study Sheets + Program Strategies	
Unit 5	Concept Development & Design Framework • Vision Statement • Concept Development • Design Strategies / Planning Principles / Policy Logic • Conceptual Zoning / Spatial Structure / Policy • Initial Models / 3D / Diagrams / Policy Module <i>Output:</i> Concept Sheets + Models/Presentation	40
Unit 6	Final Proposal & Implementation For Planning: • Broad Proposal (Macro, Micro, Meso Level) • Phasing Strategy • Cost Estimates & Financial Model • Policy & Implementation Framework • Impact Assessment (Social, Economic, Environmental) For Architecture: • Detailed Design Development (Masterplan) • Design Demonstration based on project need • Broad Proposals (Macro, Micro, Meso Level) • Implementation Strategy including Broad Cost Estimates, Revenue Generation & Phasing • Urban Form Resolution/ Building guidelines/ character/ Urban design aspects, as per project need • Relevant drawings, Study Model / 3D Must for the understanding of the physical form. <i>Output:</i> Presentation + Model (If Any) + Thesis Report	48

Suggested Specification table for Evaluation:

Distribution of Evaluation					
R Level	U Level	A Level	N Level	E Level	C Level
0%	25%	35%	25%	5%	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	Theory in Planning Research	Yvonne Rydin	Palgrave Macmillan; ISBN: 978-981-33-6567-4	2021	1st Edition
2	Urban Planning Methods: Research and Policy Analysis	Ian Bracken	Routledge / Taylor & Francis; ISBN: 9781317833260	2014 (reprint of 1981)	Revised Edition
3	The Routledge Handbook of Planning Research Methods	Elisabete A. Silva, Patsy Healey, Neil Harris, Pieter Van den Broeck	Routledge; ISBN: 9781138216570	2015	1st Edition
4	Planning Theory	Edited by Ali Madanipour	Routledge; ISBN: 9780415746366	2017	1st Edition
5	Applied Research Methods in Urban and Regional Planning	Yanmei Li and Sumei Zhang	Springer Nature (ISBN: 978-3030912611)	2022	1st Edition
6	Research Methods in Planning	Farokh Afshar	Routledge (ISBN: 978-1138865640)	2015	1st Edition
7	Cities for People	Jan Gehl	Island Press (ISBN: 978-1597265737)	2010	1st Edition
8	Planning and Urban Design Standards	American Planning Association (APA)	John Wiley & Sons (ISBN: 978-0471760900)	2006	Student Edition
9	Design with Nature	Ian L. McHarg	Wiley (ISBN: 978-0471114604)	1992	25th Anniv. Edition
10	The Good Research Guide: For Small-Scale Social Research Projects	Martyn Denscombe	Open University Press (ISBN: 978-0335243389)	2017	6th Edition
11	Statistical Methods for Geography: A Student's Guide	Peter A. Rogerson	SAGE Publications (ISBN: 978-1526498809)	2019	5th Edition
12	Applied Research Methods in Urban and Regional Planning	Yanmei Li and Sumei Zhang	Springer Nature (ISBN: 978-3030912611)	2022	1st Edition

Course Outcomes:

Sr. No.	CO statement	Marks % weightage
CO-1	Contribute to the advancement of urban and regional planning knowledge: Develop the ability to contribute to the existing body of knowledge in urban and regional planning by synthesizing theory and practice to address current urban challenges. Demonstrate the capacity to propose innovative solutions and frameworks that influence future planning paradigms.	25%
CO-2	Examine the role of specialization in urban and regional planning: Critically evaluate how your chosen specialization within urban and regional planning adds depth to the field, shaping both theoretical and practical outcomes. Understand how different specializations interact and contribute to holistic urban development, and explore the practical implications of these contributions on policy and urban practice.	25%
CO-3	Approach planning as a research-driven inquiry: Recognize the significance of planning as both a scientific and applied research endeavour. Develop the skills to approach urban and regional planning through structured research inquiry, applying rigorous methodologies to evaluate urban issues, plan solutions, and contribute to evidence-based decision-making.	25%
CO-4	Integrate research and professional practice in planning: Strengthen the ability to merge theoretical research with professional practice, ensuring that your planning solutions are not only informed by academic theory but also by real-world challenges. Equip yourself with the tools to bridge the gap between research and implementation, fostering impactful contributions to urban and regional planning practice.	25%

List of Open learning website:

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

List of Open Source Software:

- A. ArcGIS/QGIS
- B. CAD
- C. R-Commander
- D. GeoDa

List of Exercises:

Sr. No.	Studio Exercises / Assignments for CCE
1	Topic Selection and Problem Identification Identify a critical urban design issue within a defined context and articulate a clear problem statement. Establish relevance by linking the issue to broader urban systems, user needs, and spatial challenges.
2	Literature Review and Conceptual Framework Review theories, principles, and precedents in urban design to build a strong knowledge base. Develop a conceptual framework that guides spatial thinking and informs the design direction.
3	Research Design and Methodology Formulate a research approach integrating qualitative, quantitative, and spatial analysis methods. Define tools such as mapping, surveys, and observations to structure the design inquiry.
4	Data Collection and Analysis Gather primary and secondary data including site observations, stakeholder inputs, and spatial datasets. Analyze urban form, mobility, land use, and socio-economic patterns to derive design insights.
5	Interpretation and Synthesis Translate analytical findings into key design inferences and opportunity areas. Synthesize data into strategies that inform spatial structure, interventions, and design responses.
6	Thesis Writing, Presentation, and Defense Develop detailed urban design proposals supported by drawings, models, and visualization tools. Communicate and defend the design through structured presentations, demonstrating clarity and rigor.

Year: M.Plan. (URP) II (Semester IV)

MITRAJ SARVAJANIK INSTITUTE OF DESIGN, PLANNING & TECHNOLOGY						
Faculty	FADPT			Programme	M.Plan. (URP)	
Year	II			Version	2.0	
Semester	IV			Effective From	June 2026 (For all batches admitted 2025 onwards)	
Course Code	MPUP21402	Course Name		Professional Practice for Planners		
Course Type	Major			-		
Teaching Scheme				Examination Scheme		
Credits	L	S	Total	CCE	SEE	Total
3	2	1	.3	19/37	19/38	75

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

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

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

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

List of Courses where this course will be prerequisite: - The course "Professional Practice for Planners" serves as a prerequisite for advanced courses such as Urban Planning Laws and Regulations, Project Management and Financial Management, Stakeholder Engagement and Public Participation, Legal Procedures and Dispute Resolution in Urban Planning, Professional Communication and Report Writing, Entrepreneurship and Consultancy in Urban Planning, and Advanced Planning Studio Projects. These courses build on the foundational skills of ethics, legal knowledge, client management, and professional communication gained here, ensuring students are well-prepared for complex professional scenarios and effective practice in urban and regional planning.

Rationale: - This course is essential as it provides foundational knowledge of professional ethics, legal frameworks, and effective communication, which are critical for advanced urban planning studies. It equips students with skills to navigate legal complexities, manage client relationships, and maintain ethical standards in professional practice. These competencies are crucial for advanced coursework and successful careers as urban planners.

Content:

Sr. No.	Description	No. of Hours
Unit 1	Professional Activities and Responsibilities Aims and objectives of professional institutes and bodies in planning; Professional roles and responsibilities of planning consultants; Professional ethics; Responsibilities towards clients, fellow professionals and public; Scope of services for different projects.	8

Unit 2	Consultancy Agreements and Implementation Consultancy agreements and safeguards; Fees and scales of professional charges; Negotiation, liability, code of conduct, arbitration, Professional Practice under International Agreements (GATT & WTO) and its impact in India.	8
Unit 3	Professional ethics and code of conduct and scale of professional charges	16
Unit 4	Tenders and bid Formulation of Consultancy project proposal and outlines; Expression of Interest (EoI). Request for Proposal (RFP) etc. Competition projects, Collaborative projects. Role of Interdisciplinary groups, Appreciation of decision-making process and the process in relation to varied consultancy assignments in planning.	16

Suggested Specification table for Evaluation:

Distribution of Evaluation					
R Level	U Level	A Level	N Level	E Level	C Level
20%	30%	20%	10%	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
1.	Ethical and legal issues in professional practice transitions.	Koocher, G.P.	Professional Psychology: Research and Practice	2003	Vol.34, No.4, pp. 383-387.
2.	Better by Design?: Architecture, Urban Planning, and the Good City.	Knox, P. L.	Blacksburg: Virginia Tech Publishing	2020	
3.	Suburbanization of Indian Cities: What is the Evidence from Gulbarga?	Sridhar, K.S. and Narayanan, P.	Environment and Urbanization ASIA	2016	Vol.7, No.1, pp. 93-112.

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4.	Book Review - Australian urban planning, new challenges, new agendas.	Gleeson, B. and Low, N.	Environment and Planning,	2000	Vol.32, No.10, pp.1893-1894.
5.	The concept of ecosystem services in adaptive urban planning and design: A framework for supporting innovation.	Ahern, J., Cilliers, S. and Niemelä, J.,	Landscape and Urban Planning	2014	Vol.125, pp.254-259.
6	Solid Waste Management in Asia Pacific: What Explains Its Coverage?	Sridhar, K.S.	Public Works Management & Policy	2016	Vol.21, No.1, pp.53-70

Course Outcomes:

Sr. No.	CO statement	Marks % weightage
CO-1	Develop a basic understanding of the scope of professional practice	20%
CO-2	Develop Communication skills and documentation of designs for presentation to clients and other stakeholders, and for execution; the preparation of professional reports	20%
CO-3	To identify the scope, nature, and procedural aspects of professional practice in housing and spatial planning.	20%
CO-4	To develop skills to prepare detailed consultancy proposals, including project scopes, objectives, and methodologies.	20%
CO-5	To appreciate to accurately quote fees and charges for professional services in housing and spatial planning, ensuring transparent and competitive pricing.	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. LibreOffice Writer (Document Preparation and Report Writing)
- B. Indiatat (Data Platform for Urban Planning Statistics)
- C. Bhuvan (ISRO's Geoportal)





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List of Exercises:

Sr. No.	Studio Exercises / Assignments for CCE
1	Professional Ethics and Legal Framework Exercises on ethics, urban planning laws, and ethical decision-making.
2	Project Management and Financial Management Exercises on project planning, financial management, and dispute resolution.
3	Tendering & Bidding Communication, Consultancy, and Stakeholder Engagement. Exercises on report writing. Documentation



Year: M.Plan. (URP) II (Semester IV)

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

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

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

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

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

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

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

Content:

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



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



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

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

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

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

Reference Books:

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

Course Outcomes:

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

List of Open learning website:

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

List of Open Source Software:

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

List of Exercises:

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

Year: M.Plan. (URP) II (Semester IV)

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

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

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

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

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

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

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

Content:

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



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

Suggested Specification table for Evaluation:

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



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

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

Reference Books:

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

Course Outcomes:

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

List of Open learning website:

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

List of Open Source Software:

- A. QGIS
- B. AI Tools

List of Exercises:

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



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Year: M.Plan. (URP) II (Semester IV)

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

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

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

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

End of Document

