



# **SDGI GLOBAL UNIVERSITY**

**SCHOOL OF ARCHITECTURE, PLANNING AND DESIGN,  
GHAZIABAD**

Evaluation Scheme & Syllabus  
For

Master in Urban & Regional Planning (MURP)

[A.Y.: 2025-2026]

**SDGI GLOBAL UNIVERSITY, GHAZIABAD**  
**Program Curriculum**  
**FOR M.U.R.P.**  
**(A.Y. 2025-26)**

**Introductions:**

The Master of Urban and Regional Planning (M.U.R.P.) is a two-year postgraduate program designed to develop advanced analytical, technical, and strategic skills essential for planning and managing urban and regional development. The program integrates principles of spatial planning, policy formulation, sustainability, infrastructure development, and socio-economic analysis to provide a holistic understanding of urban and regional dynamics. Through a rigorous curriculum that includes studio-based learning, research projects, fieldwork, policy analysis, and interdisciplinary collaboration, the course prepares students to address contemporary urban challenges such as rapid urbanization, environmental sustainability, equitable development, and efficient governance. The M.U.R.P. program aims to cultivate visionary planners who can contribute to creating inclusive, resilient, and sustainable urban and regional environments.

**Program Educational Objectives (PEOs)**

**1)PEO1:PROFESSIONAL EXCELLENCE**

Post Graduates will excel in Urban Regional Planning & Problem Solving with adherence to professional standards.

**2)PEO2: SUSTAINABLE & ETHICAL PRACTICE**

They will apply sustainable & ethical practices in their work, promoting responsible and environmentally sound planning.

**3)PEO3:LIFELONG LEARNING**

They will pursue continuous learning & professional growth, continuous to innovation in Urban & Regional planning field.

**4)PEO4:CULTURAL SENSITIVITY**

They will create proposal & recommendations that respect & enhance cultural, historical and environmental context.

**Program Specific Objectives (PSOs)**

**PSO1: MASTERY OF PLANNING PRINCIPLES AND PRACTICES**

Apply urban and regional planning principles to design sustainable, inclusive, and resilient urban environments.

**PSO2: TECHNICAL PROFICIENCY IN INFRASTRUCTURE PLANNING AND DESIGN**

Develop technical expertise in infrastructure planning, including water, sanitation, transportation, and waste management systems.

**PSO3: CRITICAL ANALYSIS AND POLICY FORMULATION**

Analyse and formulate effective policies and strategies to address contemporary urban challenges and promote sustainable development.

**Program Outcomes (POs)**

**PO1: PLANNING KNOWLEDGE**

Apply core planning principles, theories, concept & technical knowledge to create elective planning proposals.

**PO2: LANNING SKILLS**

Develop innovation, functional 8 Sustainable proposals that adhere to people needs, while respecting environmental, cultural & social concepts.

**PO3: PROBLEM - SOLVING ABLITIES.**

Identify and solve complex planning challenges using critical thinking research and creative planning strategies.

**PO4: SUSTAINABILITY & ENVIRONMENTAL AWARENESS**

Integrate sustainable planning principles and environmental consideration in planning projects.

**PO5: ETHICAL RESPONSIBILITY**

Demonstrate ethical behaviour in professional practice, adhering to standards of regulation in the field of Urban and Regional planning.

**PO6: COMMUNICATION SKILLS**

Communicate Planning ideas effectively through-Maps, drawings, presentations, reports and digital tools.

**PO7: COLLABRATIVE SKILLS**

Work effectively in multidisciplinary teams, showing leadership & teamwork in complex planning projects.

**PO8: TECHNOLOGICAL ADAPTABILITY**

Use modern tools, software & technologies like GIS application and remote sensing and other statistical applications in forming planning solutions and also in execution of planning projects.

**PO9: CULTURAL AND HISTORICAL APPRECIATION**

Incorporate historical & cultural context into Urban planning, contributing to heritage conservation & cultural identity.

**PO10: LIFELONG LEARNING**

Engage in continuous learning and professional development, adapting to emerging trends and innovation in planning.

**Credit System-Credit requirement for award of M.U.R.P.:**

**Credit distribution in each semester ( 90 credits to 4 semesters)**

Semester	Credits		
	Theory	Studio/ Practical	Total
1 <sup>st</sup>	15	08	23
2 <sup>nd</sup>	15	8	23
3 <sup>rd</sup>	12	12	24
4 <sup>th</sup>	6	14	20
Total	48	42	90



# SDGI GLOBAL UNIVERSITY, GHAZIABAD

## SCHOOL OF ARCHITECTURE ,PLANNING AND DESIGN SCHEME OF STUDY AND EVALUATION

### MASTER IN URBAN AND REGIONAL PLANNING ( MURP)

BATCH - 2025-2027

A.Y.: 2025-2026

SEMESTER - Ist

S. No	Status	Subject Code	Subject Name	Study Scheme Lec/ Week			Hours	Credits	Marks in Evaluation Scheme						Passing Criteria (%age)	Passing Marks	Total Marks
				L	T	P/S			Continuous Internal Evaluation (CIE)			End of Semester Examination (ESE).					
									Th	Pr	Total	Th	Pr	Total			
1	DC	M080225101	PLANNING HISTORY & THEORY	2	1	0	3	3	50	0	50	50	0	50	40%	40	100
2	OE	M080225102	SOCIO-ECONOMIC PLANNING	2	1	0	3	3	50	0	50	50	0	50	40%	40	100
3	DC	M080225103	PLANNING TECHNIQUES	2	1	0	3	3	50	0	50	50	0	50	40%	40	100
4	DC	M080225104	TRAFFIC & TRANSPORT PLANNING	2	1	0	3	3	50	0	50	50	0	50	40%	40	100
5	OE	M080225105	HOUSING AND ENVIRONMENTAL PLANNING	2	1	0	3	3	50	0	50	50	0	50	40%	40	100
6	DC	M080225156	PLANNING STUDIO WORK-I	0	0	16	16	8	0	200	200	0	200	200	40%	160	400
<b>Total</b>				10	5	16	31	23	250	200	450	250	200	450	40%	360	900

DC - Mean Departmental Core Subject

VAC - Value Added Course

Evaluation Guidelines:

1. M080225156 (Planning Studio Work-I: Viva voce:200 MARKS based on studio assignments.

NOTE: The Scheme of Studies (SOS) and Evaluation is completely in accordance with the Institute of Town Planners of India(ITPI) guidelines and SGU ordinance.

OE - Open Elective / Multidisciplinary

SE - Skill Enhancement

AE - Ability Enhancement



# SDGI GLOBAL UNIVERSITY, GHAZIABAD

SCHOOL OF ARCHITECTURE ,PLANNING AND DESIGN

STUDY AND EVALUATION SCHEME FOR MURP

BRANCH: - URBAN AND REGIONAL PLANNING

BATCH - 2025-2027

A.Y.: 2025-2026

SEMESTER - IInd

S. No	Status	Subject Code	Subject Name	Study Scheme Lec/ Week			Hours	Credits	Marks in Evaluation Scheme						Passing Marks	Total Marks
				L	T	P			Continuous Internal Evaluation (CIE)			End of Semester Examination (ESE).				
									Th	Pr	Total	Th	Pr	Total		
1	DC-1	M080225201	CITY AND METROPLITIAN PLANNING	2	1	0	3	3	50	0	50	50	0	50	40	100
2	DC-2	M080225202	INFRASTRUCTURE PLANNING	2	1	0	3	3	50	0	50	50	0	50	40	100
3	OE-1		<b>ELECTIVE I(ANY ONE)</b>													
		M0802245203 A	INCLUSIVE URBAN PLANNING	2	1	0	3	3	50	0	50	50	0	50	40	100
		M0802245203 B	URBAN HERITAGE & CONSERVATION													
4	DC-3	M080225204	ENVIRONMENTAL PLANNING & MANAGEMENT	2	1	0	3	3	50	0	50	50	0	50	40	100
5	DC-4	M080225205	PLANNING LEGISLATION & URBAN GOVERNANCE	2	1	0	3	3	50	0	50	50	0	50	40	100
6	DC-5	M080225256	PLANNING STUDIO WORK -II	0	0	16	16	8	0	200	200	0	200	200	160	400
<b>Total</b>				10	5	16	31	23	250	200	450	250	200	450	360	900

DC - Mean Departmental Core Subject

VAC - Value Added Course

OE - Open Elective / Multidisciplinary

SE - Skill Enhancement

AE - Ability Enhancement

1. M080225256 (Planning Studio Work-II: Viva voce:200 MARKS based on studio assignments.

NOTE: The Scheme of Studies (SOS) and Evaluation is completely in accordance with the Institute of Town Planners of India(ITPI) guidelines and SGU ordinance.



**SDGI GLOBAL UNIVERSITY, GHAZIABAD**  
**SCHOOL OF ARCHITECTURE, PLANNING & DESIGN**

**SCHEME OF STUDY AND EVALUATION**  
**MASTER IN URBAN AND REGIONAL PLANNING ( MURP)**

BATCH - 2024-2026

A.Y.: 2025-2026

SEMESTER - IIIrd

S. No	Status	Subject Code	Subject Name	Study Scheme Lec/ Week			Hours	Credits	Marks in Evaluation Scheme						Passing Criteria (%)	Passing Marks	Total Marks
				L	T	P/S			Continuous Internal			End of Semester Examination					
									Th	Pr	Total	Th	Pr	Total			
1	OE		ELECTIVE II(ANY ONE)														
		M080225301A	PLANNING FOR TOURISM	2	1	0	3	3	50	0	50	50	0	50	40%	40	100
		M080225301B	DISASTER MANAGEMENT & MITIGATION														
2	AE	M080225302	PROJECT PLANNING	2	1	0	3	3	50	0	50	50	0	50	40%	40	100
3	AE	M080225303	RESEARCH METHODOLOGY, SEMINAR & REPORT WRITING	2	1	0	3	3	50	0	50	50	0	50	40%	40	100
4	VAC	M080225354	REMOTE SENSING & GIS APPLICATION	0	0	4	4	2	0	50	50	0	50	50	40%	40	100
5	DC	M080225305	RURAL & REGIONAL PLANNING	2	1	0	3	3	50	0	50	50	0	50	40%	40	100
6	DC	M080225356	PLANNING STUDIO WORK -III & THESIS -I	0	0	16	16	8	0	200	200	0	200	200	40%	160	400
7	SE	M080225357	PROFESSIONAL TRAINING	0	0	0	0	2	0	50	50	0	50	100	40%	40	100
<b>Total</b>				<b>8</b>	<b>4</b>	<b>20</b>	<b>32</b>	<b>24</b>	<b>200</b>	<b>300</b>	<b>500</b>	<b>200</b>	<b>300</b>	<b>550</b>	<b>40%</b>	<b>400</b>	<b>1000</b>

DC - Mean Departmental Core Subject  
VAC - Value Added Course

OE - Open Elective / Multidisciplinary  
SE - Skill Enhancement

AE - Ability Enhancement

**Evaluation Guidelines:**

- M080225356 (Planning Studio Work-III & Thesis-I) Viva voce:200 marks based on studio assignments.
- M080225354( Remote Sensing & GIS applications): Vive voce : 50 marks based on studio assignments
- M080225357 (Professional Training): Viva voce:50 marks based on Training report

NOTE: The Scheme of Studies (SOS) and Evaluation is completely in accordance with the Institute of Town Planners of India(ITPI) guidelines and SGU ordinance

AR. ANJALI KAWATRA  
DIRECTOR, SAPD



**SDGI GLOBAL UNIVERSITY, GHAZIABAD**  
**SCHOOL OF ARCHITECTURE ,PLANNING AND DESIGN**  
**STUDY AND EVALUATION SCHEME FOR M.PLAN**  
**BRANCH: - URBAN AND REGIONAL PLANNING**

**BATCH - 2025-2027**

**A.Y.: 2025-2026**

**SEMESTER - IVth**

S. No	Status	Subject Code	Subject Name	Study Scheme Lec/ Week			Hours	Credits	Marks in Evaluation Scheme						Passing Marks	Total Marks
				L	T	P			Continuous Internal Evaluation			End of Semester Examination (ESE).				
									Th	Pr	Total	Th	Pr	Total		
			<b>ELECTIVE III(ANY ONE)</b>													
1	OE-3	M080225401A	POLITICS & PUBLIC POLICY	2	1	0	3	3	50	0	50	50	0	50	40	100
		M080225401B	FINANCING DEVELOPMENT													
2	AE-1	M080224452	LEGAL ISSUES IN PLANNING	0	3	0	3	3	50	0	50	50	0	50	40	100
3	DC-1	M080224453	THESIS-II	0	0	28	28	14	0	400	400	0	400	400	320	800
<b>Total</b>				2	4	28	34	20	100	400	500	100	400	500	400	1000

DC - Mean Departmental Core Subject  
 VAC - Value Added Course

OE - Open Elective / Multidisciplinary  
 SE - Skill Enhancement

AE - Ability Enhancement

1. M080225453 (Thesis-II: Viva voce:400 MARKS based on Thesis report & project submission)

NOTE: The Scheme of Studies (SOS) and Evaluation is completely in accordance with the Institute of Town Planners of India(ITPI) guidelines and SGU ordinance.

**AR. ANJALI KAWATRA**  
**DIRECTOR, SAPD**

# **DETAILED FIRST YEAR CURRICULUM CONTENTS**

**PROGRAM: Master in Urban & Regional Planning**

(M.U.R.P.)

## Semester-I

<b>School Name- School of Architecture , Planning &amp; Design</b>			
<b>Program- M.U.R.P.</b>			<b>Semester-I</b>
<b>Course Name- PLANNING HISTORY &amp; THEORY</b>			
<b>A.Y 2025-26</b>	<b>Course Code- M080225101</b>	<b>Batch- 2025-27</b>	<b>CIE Marks-50</b>
<b>Total Teaching Hours: 45</b>	<b>Total Credits-3</b>		<b>ESE Marks-50</b>
<b>Type of Course- Theory</b>			<b>Total Marks-100</b>
<b>Course Objectives</b> <ol style="list-style-type: none"><li>1. To introduce the historical evolution of human settlements and cities, emphasizing the cultural, social, and environmental influences on urban form.</li><li>2. To analyse the historical development of town planning through different eras and understand the impact of political ideologies and individual contributions on city design.</li><li>3. To familiarize students with the foundational definitions, goals, and frameworks of urban and regional planning, including sustainability and rationality.</li><li>4. To explore classical and modern theories of city development and understand their relevance to contemporary urban issues.</li><li>5. To equip students with an understanding of planning models and future city concepts for addressing emerging urban challenges and development needs.</li></ol>			
<b>UNITS</b>	<b>Topics</b>		<b>No. of Teaching hours/ (Lecture)</b>
<b>1. Evolution of Human Settlements and City Building</b>	<input type="checkbox"/> Relevance of the study of settlement evolution <input type="checkbox"/> Hunter, gatherer, farmer and formation of organized society <input type="checkbox"/> Human settlements as an expression of civilizations <input type="checkbox"/> Cosmological and other influences <input type="checkbox"/> Origins and growth of cities <input type="checkbox"/> Effects of cultural influence on physical form <input type="checkbox"/> Basic elements of the city <input type="checkbox"/> Concepts of space, time, and scale of cities		<b>9</b>
<b>2. Historical Perspectives in City Planning</b>	<input type="checkbox"/> Town planning in ancient India <input type="checkbox"/> Medieval, Renaissance, Industrial, and Post-industrial cities <input type="checkbox"/> City as a living spatial entity <input type="checkbox"/> Concepts of landmark, axis, orientation <input type="checkbox"/> City form as a living space <input type="checkbox"/> City as a political statement (New Delhi, Chandigarh, Washington D.C., Brasília)		<b>9</b>

	<input type="checkbox"/> Contributions of planners: Lewis Mumford, Patrick Geddes, Peter Hall, etc.	
<b>3. Planning Concepts, Definitions, &amp; Objectives</b>	<input type="checkbox"/> Definitions of town and country planning <input type="checkbox"/> Orthodoxies of planning <input type="checkbox"/> Goal formulation, objectives, scope, and limitations <input type="checkbox"/> Sustainability and rationality in planning <input type="checkbox"/> Components of sustainable urban and regional development	<b>9</b>
<b>4. Theories of City Development</b>	<input type="checkbox"/> Theories of city development: <ul style="list-style-type: none"> <li>• Concentric Zone Theory</li> <li>• Sector Theory</li> <li>• Multiple Nuclei Theory</li> <li>• Other contemporary theories</li> </ul> <input type="checkbox"/> Land use and land value theory (William Alonso) <input type="checkbox"/> Ebenezer Howard's Garden City and Green Belt Concepts <input type="checkbox"/> City as an organism: physical, social, economic, and political entity	<b>9</b>
<b>5. Contemporary Urban Planning Models and Future Cities</b>	Emerging concepts: Global city, Inclusive city, Safe city City of the future and future of the city Shadow cities, divided cities Models of planning: <ul style="list-style-type: none"> <li>Advocacy Planning</li> <li>Pluralism in Planning</li> <li>Systems approach (rationalistic, incremental, mixed scanning, middle-range planning)</li> <li>Equity Planning</li> <li>Political Economy Model</li> </ul> Types of development plans and plan-making process	<b>9</b>

**Course Outcomes :**

Upon completion of this course, students will be able to:

**CO1:** Students will be able to explain the historical evolution of settlements and recognize the key factors that influenced the physical form of cities.

**CO2:** Students will demonstrate knowledge of major historical and political developments in town planning, and critically evaluate landmark city planning examples and contributions of key thinkers.

**CO3:** Students will define and articulate the objectives and scope of town and country planning within the context of sustainability and development constraints.

**CO4:** Students will interpret and apply various city development theories and planning concepts to real-world urban patterns and land use analysis.

**CO5:** Students will be able to differentiate between planning models and apply suitable planning approaches for envisioning future cities and preparing development plans.

**Text/Reference books & Journals:**

1. Andreas Faludi, A Reader in Planning Theory. Pergamon Press Oxford, New York, 1973.
2. Belinda K P Yuen, 'Planning Singapore: from Plan to Implementation, Singapore Institute of Planners, Singapore, 1998.
3. Jonathan Barnett, 'Redesigning cities: Principles, Practice, and Implementation, Planners Press, Chicago, 2003.

4. Lee. C, 'Models in Planning; An Introduction to the use of Quantitative Models in Planning, Pergamon Press, New York, 1973.
5. Rabindra Nath Dubey and Bhim Rao, 'Urbanization and Urban Planning in India-, Shree Nataraj Prakashan, New Delhi. 2010.
6. Ramachandran R, 'Urbanization and Urban Systems in India, Oxford University Press, Oxford. 1991.
7. Randall Crane and Rachel Weber, 'The Oxford Handbook of Urban Planning, Oxford University Press, New York, 2012.
8. Sundaram K.V, 'Urban and Regional Planning in India, Vikas Pub. House, New Delhi. 1977.
9. Viviana Kaminski, 'Urban Studies and Planning. World Technologies, New Delhi. 2012.
10. Regional planning for urban spaces AD Walk
11. Urban and Regional planning reader Birch E, Glasson
12. Kaiser Edward J., et.al., 1995, Urban Landuse Planning 4th (ed) Urbana, University of Illinois Press 8.
13. Bola Ayeni, 1979, Concepts and Techniques in Urban Analysis, Croom Helm, Lond
14. Arthur Kohun,'History Builds the Towns', Lund Humphries, London, 1953.
15. Bhatt Caste, 'Class and Politics', Manohar Book Service, Delhi. 1975.
16. Carter H, 'The Study of Urban Geography', Edward A Old, London. 1972.
17. Chapin F.S, 'Urban Land use Planning', Higg & brothers, New York, 1965.
18. Antony Giddens and Philip W Sutton, 'Sociology-Introductory Readings, Polity, Oxford. 2010.
19. Global Review of Human Settlements, Pergamon Press, London, 1976.

**Assessment method:** (Continuous Internal Assessment = 50%, Final Examination = 50%)

<b>School Name- School of Architecture , Planning &amp; Design</b>			
<b>Program- M.U.R.P.</b>			<b>Semester-I</b>
<b>Course Name- SOCIO-ECONOMIC PLANNING</b>			
<b>A.Y 2025-26</b>	<b>Course Code- M080225102</b>	<b>Batch- 2025-27</b>	<b>CIE Marks-50</b>
<b>Total Teaching Hours: 45</b>	<b>Total Credits-3</b>		<b>ESE Marks-50</b>
<b>Type of Course- Theory</b>			<b>Total Marks-100</b>
<b>Course Objectives</b>			
<ol style="list-style-type: none"> <li>1. To introduce key sociological concepts and their relevance to understanding human-environment relationships and settlement patterns.</li> <li>2. To examine social structures, marginalized groups, and community issues influencing urban and rural development.</li> <li>3. To analyse socio-cultural dynamics and policies affecting settlement structures, community planning, and inclusivity.</li> <li>4. To develop an understanding of micro and macroeconomic principles and their relevance to planning and resource allocation.</li> <li>5. To explore development economics and apply economic theories and strategies to urban planning and policy-making.</li> </ol>			
<b>UNITS</b>	<b>Topics</b>		<b>No. of Teaching hours/ (Lecture)</b>
<b>1- Foundations of Sociology and Human-Environment Relations.</b>	<ul style="list-style-type: none"> <li>• Nature and scope of sociology</li> <li>• Sociological concepts and methods</li> <li>• Man and environment relationships</li> <li>• Socio-cultural profile of Indian society</li> <li>• Urban transformation and modernization</li> <li>• Tradition vs. modernity in urban and rural settlements</li> </ul>		<b>9</b>
<b>2- Social Issues, Communities, and Planning</b>	<ul style="list-style-type: none"> <li>• Issues of caste, age, sex, gender, health, safety, and marginalized groups</li> <li>• Displacement, resettlement, and rehabilitation due to compulsory land acquisition</li> <li>• Social problems of slums and squatter communities</li> <li>• Urban and rural social transformation and impacts on social life</li> <li>• Crimes in urban areas and spatial planning implications</li> <li>• Social structure and its relation to spatial planning</li> </ul>		<b>9</b>
<b>3- Socio-Cultural Factors in Urban Planning</b>	<ul style="list-style-type: none"> <li>• Role of socio-cultural aspects in growth patterns of cities and neighbourhoods</li> <li>• Social planning and policy</li> <li>• Community participation in planning</li> </ul>		<b>9</b>

	<ul style="list-style-type: none"> <li>• Inclusive planning and gender concerns</li> <li>• Settlement policy: <ul style="list-style-type: none"> <li>○ National Commission on Urbanization</li> <li>○ Rural Habitat Policy</li> <li>○ International experiences on settlement structure and spatial distribution</li> </ul> </li> </ul>	
<b>4- Principles of Micro and Macro Economics</b>	<ul style="list-style-type: none"> <li>• Demand, supply, elasticity, and consumer behaviour</li> <li>• Revenue, costs, economies of scale</li> <li>• Production and factor markets</li> <li>• Market structures and price determination</li> <li>• Market failures and cost-benefit analysis</li> <li>• Public sector pricing and economic efficiency</li> </ul>	<b>9</b>
<b>5- Development Economics and Planning Applications</b>	<ul style="list-style-type: none"> <li>• Economic growth, development, and quality of life</li> <li>• Human Development Index (HDI), poverty, income distribution</li> <li>• Employment and livelihood issues</li> <li>• Economic principles in land use planning</li> <li>• Economic policies, balanced vs. unbalanced growth</li> <li>• Public sector roles, capital budgeting, risk, and long-term planning</li> <li>• Changing economic policies and implications on land</li> </ul>	<b>9</b>

**Course Outcomes :**

Upon completion of this course, students will be able to:

**CO1:** Students will be able to interpret sociological frameworks for analysing settlement patterns and social behaviour in planning contexts.

**CO2:** Students will assess the impact of social inequalities and marginalized communities on urban development and planning responses.

**CO3:** Students will apply concepts of social planning, inclusivity, and community participation to planning and policy interventions.

**CO4:** Students will understand and apply key economic principles related to demand, supply, market structures, and public sector pricing.

**CO5:** Students will critically evaluate development strategies, economic indicators, and policy implications for land use and urban growth.

**Text/Reference books & Journals:**

1. Appadurai, A. (1990) Disjuncture and difference in the global cultural economy, Theory, Culture and Society, Public Culture, Vol. 2, No. 2.
2. Appadurai, A. (2001) Deep democracy: Urban Governmentality and the Horizon of Politics, Environment and Urbanization, Vol. 13 No 2, pp. 23-43.
3. Appadurai, A. (2013) The Future as Cultural Fact: Essays on the Global Condition, Verso, London
4. Durham, M.G. and Kellner, D.M. (eds.) (2006) Media and Cultural Studies: Key Works, Malden, MA
5. Kapoor, P. (2018) Sociology & Economics for Engineers, Khanna Book Publishing Co., New Delhi.

6. Bertaud, A. (2019) Order without Design: How Markets Shape Cities, MIT Press, Massachusetts.
7. Brooks, N., Donaghy, K. and Knaap, G. (2011) The Oxford Handbook of Urban Economics and Planning, Oxford University Press, Oxford.
8. Searle, L.G. (2013) Conflict and Commensuration: Contested Market Making in India's Private Real Estate Development Sector, International Journal of Urban and Regional Research, Vol. 38, Issue 1, pp. 60-78.
9. Shatkin, G. (2013) Contesting the Indian City: Global Visions and the Politics of the Local, International Journal of Urban and Regional Research, Vol. 38, No. 1, pp. 1-13

**Assessment method:** (Continuous Internal Assessment = 50%, Final Examination = 50%)

<b>School Name- School of Architecture , Planning &amp; Design</b>			
<b>Program- M.U.R.P.</b>			<b>Semester-I</b>
<b>Course Name- PLANNING TECHNIQUES</b>			
<b>A.Y 2025-26</b>	<b>Course Code- M080225103</b>	<b>Batch- 2025-27</b>	<b>CIE Marks-50</b>
<b>Total Teaching Hours: 45</b>	<b>Total Credits-3</b>		<b>ESE Marks-50</b>
<b>Type of Course- Theory</b>			<b>Total Marks-150</b>
<b>Course Objectives</b>			
<ol style="list-style-type: none"> <li>1. To develop an understanding of survey techniques and mapping methods relevant to urban and regional planning.</li> <li>2. To equip students with analytical tools and models used in regional and spatial analysis.</li> <li>3. To introduce demographic methods for analysing population dynamics and spatial distribution.</li> <li>4. To familiarize students with planning standards, development control regulations, and spatial benchmarks.</li> <li>5. To enable students to integrate data, analytical tools, and standards into practical planning applications</li> </ol>			
<b>UNITS</b>	<b>Topics</b>		<b>No. of Teaching hours/ (Lecture)</b>
<b>1- Survey Techniques and Mapping</b>	<ul style="list-style-type: none"> <li>• Types of physical and socio-economic surveys</li> <li>• Data for land use, building use, density, building age, etc.</li> <li>• Survey techniques and tools</li> <li>• Land use classification/coding systems and expected outputs</li> <li>• Preparation of base maps</li> <li>• Concepts of scale and detailing for different planning levels (regional, city, zoning, local area)</li> </ul>		<b>9</b>
<b>2- Analytical Techniques in Planning</b>	<ul style="list-style-type: none"> <li>• Regional classification and delineation techniques</li> <li>• Analysis of nodes, hierarchy, nesting, and rank-size rule</li> <li>• Use of <b>scalogram</b>, <b>sociogram</b>, and <b>planning balance sheet</b></li> <li>• Techniques: <b>Threshold analysis</b>, <b>Input-output analysis</b>, <b>SWOT analysis</b></li> </ul>		<b>9</b>
<b>3- Demographic Analysis and Planning</b>	<ul style="list-style-type: none"> <li>• Population projection and forecasting techniques</li> <li>• Use of <b>Lorenz Curve</b>, <b>Gini Ratio</b>, <b>Theil's Index</b></li> <li>• Urban-rural ratios, urban and metropolitan concentration</li> <li>• Social area analysis</li> <li>• Strategic choice approach and interconnected decision area analysis</li> </ul>		<b>9</b>

<b>4- Standards and Regulations in Planning</b>	<ul style="list-style-type: none"> <li>• Spatial standards, performance standards, and benchmarks</li> <li>• Variable standards for infrastructure and amenities</li> <li>• <b>UDPFI Guidelines</b></li> <li>• Zoning regulations</li> <li>• Development control rules and regulations (DCRs)</li> </ul>	<b>9</b>
<b>5- Application of Planning Methods in Practice</b>	<ul style="list-style-type: none"> <li>• Integration of survey data and analytical methods into planning</li> <li>• Techniques for multi-scalar planning: from regional to local levels</li> <li>• Application of demographic analysis in policy and plan-making</li> <li>• Interpretation and application of planning standards in real projects</li> <li>• Use of analytical tools in plan formulation and evaluation</li> </ul>	<b>9</b>
<p><b>Course Outcomes:</b> Upon completion of this course, students will be able to:</p> <p><b>CO 1:</b> Students will be able to conduct physical and socio-economic surveys and prepare base maps with appropriate classification systems.</p> <p><b>CO2:</b> Students will apply analytical tools like scalograms, SWOT, and input-output analysis to planning problems and regional studies.</p> <p><b>CO 3:</b> Students will utilize demographic techniques and indices to assess population trends and support spatial planning decisions.</p> <p><b>CO 4:</b> Students will interpret and apply spatial and performance standards, UDPFI guidelines, and DCRs in plan evaluation.</p> <p><b>CO 5:</b> Students will integrate surveys, standards, and analysis techniques to formulate and assess real-world development plans.</p>		

**Text/Reference books:**

- Bracken, I. (1999) Urban Planning Methods: Research and Policy Analysis, Methuen, London.
- Berke, P.R. and Goodschalk, D.R., Kaiser, E.J and Rodriguez, D.A (2006) Urban Land Use Planning, University of Illinois Press, U.S.A. Fifth Edition.
- Wang X., Rainer A. and Hofe, V. (2007) Research Methods in Urban and Regional Planning, Springer, Berlin.
- Monmonier, M. (1996) How to Lie with Maps, University of Chicago Press, Chicago.

**Assessment method:** (Continuous Internal Assessment = 50%, Final Examination = 50%)

<b>School Name- School of Architecture , Planning &amp; Design</b>			
<b>Program- M.U.R.P.</b>			<b>Semester-I</b>
<b>Course Name- TRAFFIC &amp; TRANSPORT PLANNING</b>			
<b>A.Y 2025-26</b>	<b>Course Code- M080225104</b>	<b>Batch- 2025-27</b>	<b>CIE Marks-50</b>
<b>Total Teaching Hours: 45</b>	<b>Total Credits-3</b>		<b>ESE Marks-50</b>
<b>Type of Course- Theory</b>			<b>Total Marks-100</b>
<b>Course Objectives</b>			
<ol style="list-style-type: none"> <li>1. To introduce foundational traffic engineering concepts, including traffic flow, capacity, and level of service.</li> <li>2. To familiarize students with the design principles of urban roads and infrastructure components.</li> <li>3. To develop the ability to design various types of intersections based on traffic needs and visibility criteria.</li> <li>4. To explore traffic management systems, signal design, and safety strategies for urban transport.</li> <li>5. To understand the transport planning process and integrate transport infrastructure design with urban development.</li> </ol>			
<b>UNITS</b>	<b>Topics</b>		<b>No. of Teaching hours/ (Lecture)</b>
<b>1- Introduction to Traffic Engineering and Flow Concepts</b>	<ul style="list-style-type: none"> <li>• Definition, scope, and utility of traffic engineering</li> <li>• Traffic flow variables and their relationships</li> <li>• Fundamental diagrams of traffic flow</li> <li>• Capacity and level of service: definitions and influencing factors</li> <li>• Static and dynamic PCU</li> <li>• Design service volume and capacity norms for urban roads of varying widths</li> </ul>		<b>9</b>
<b>2- Urban Road Infrastructure Design</b>	<ul style="list-style-type: none"> <li>• Urban road cross-sectional elements: right of way, carriageway, median, service lane, footpath, curb, camber, etc.</li> <li>• Design for different road hierarchies</li> <li>• Geometry: horizontal and vertical curves, super elevation, sight distance</li> <li>• Access control on urban roads</li> <li>• Street lighting: types and design</li> <li>• Guard rails, traffic signs, markings, NMT facilities</li> <li>• Urban road landscaping</li> </ul>		<b>9</b>
<b>3- Intersection Design</b>	<ul style="list-style-type: none"> <li>• Types of intersections and visibility requirements</li> <li>• Design principles: alignment, vertical profile, curve radii, channelization</li> <li>• Roundabouts: capacity and design</li> </ul>		<b>9</b>

	<ul style="list-style-type: none"> <li>• Signalized intersection: capacity calculation</li> <li>• Grade-separated intersections: ramps, gradients, weaving sections, acceleration/deceleration lanes</li> </ul>	
<b>4- Traffic Management Systems and Road Safety</b>	<ul style="list-style-type: none"> <li>• Traffic signals: warrants, phasing, inter-green periods, saturation flow</li> <li>• Signal optimization and vehicle-actuated signals</li> <li>• Area Traffic Control (ATC) systems</li> <li>• Regulation, enforcement, and traffic management measures</li> <li>• Transport System Management (TSM) techniques</li> <li>• Road safety: accident data collection and analysis, prevention strategies</li> </ul>	<b>9</b>
<b>5- Transport Infrastructure Planning and Urban Mobility</b>	<ul style="list-style-type: none"> <li>• Role and types of transport systems</li> <li>• Evolution of transport modes</li> <li>• Urban form, transport patterns, and land use-transport cycle</li> <li>• Concept of accessibility</li> <li>• Road/intersection hierarchy and geometric design</li> <li>• Transportation surveys and travel characteristics</li> <li>• Urban transport planning process: stages, zoning, database, trip generation</li> <li>• Transport, environment, and safety issues</li> <li>• Principles of traffic and transport system management</li> </ul>	<b>9</b>

**Course Outcomes:**

Upon completion of this course, students will be able to:

**CO 1:** Students will be able to analyse traffic flow variables and calculate road capacities and levels of service using engineering methods.

**CO 2:** Students will design urban road elements and understand geometric and functional requirements for safe and efficient mobility.

**CO 3:** Students will apply intersection design principles to both at-grade and grade-separated intersections.

**CO 4:** Students will evaluate and propose traffic signal systems and traffic management measures for improved urban mobility and safety.

**CO 5:** Students will demonstrate understanding of transport planning processes, accessibility analysis, and integration of land use with mobility systems.

**Text/Reference books:**

1. Papacostar, C.S. and Prevedons ,Transportation Engineering and Planning , 2001 Prentice Hall of India.
2. Kaliyali, L.R. Transport Planning and Traffic Engineering Khanna publishers.
3. O'Flaherty, C.A. Transport Planning and Traffic Engineering, Butterworth Heinerman, An Imprint of Elsevier
4. Mohinder Singh and L.R. Kadiyali, Crisis in road transport 1989 Konark Publishers Pvt. Ltd. , New Delhi
5. L. R. Kadiyali Traffic engineering and transportation planning, 2007 Khanna Publishers, New Delhi

**Assessment method:** (Continuous Internal Assessment = 50%, Final Examination = 50%)

<b>School Name- School of Architecture , Planning &amp; Design</b>			
<b>Program- M.U.R.P.</b>			<b>Semester-I</b>
<b>Course Name- HOUSING AND ENVIRONMENTAL PLANNING</b>			
<b>A.Y 2025-26</b>	<b>Course Code- M080225105</b>	<b>Batch- 2025-27</b>	<b>CIE Marks-50</b>
<b>Total Teaching Hours: 45</b>	<b>Total Credits-3</b>		<b>ESE Marks-50</b>
<b>Type of Course- Theory</b>			<b>Total Marks-100</b>
<b>Course Objectives</b>			
<ol style="list-style-type: none"> <li>1. To introduce fundamental concepts, definitions, and classifications related to housing, including demand and shortage analysis.</li> <li>2. To understand the social, economic, and cultural dimensions that influence housing needs and policy-making.</li> <li>3. To develop analytical skills for integrating housing into urban planning and city development frameworks.</li> <li>4. To study and apply planning standards, design principles, and regulations for neighbourhood-level housing development.</li> <li>5. To promote sustainable, inclusive, and affordable housing practices in line with contemporary urban challenges.</li> </ol>			
<b>UNITS</b>	<b>Topics</b>		<b>No. of Teaching hours/ (Lecture)</b>
<b>1- Concepts and Definitions in Housing</b>	<ul style="list-style-type: none"> <li>• Shelter as a basic human requirement</li> <li>• Determinants of housing form</li> <li>• Census of India housing definitions</li> <li>• Concepts of housing need, demand, and supply</li> <li>• Housing indicators: structural condition, age, materials, occupancy rate, crowding, shortage, income, affordability</li> <li>• Poverty, slums, and houseless population</li> <li>• Housing typologies: traditional houses, plotted development, group housing, chawls, villas, slums, squatters, night shelters</li> <li>• Public health issues related to housing</li> <li>• Theories of housing</li> <li>• Concept of green housing and green rating systems</li> </ul>		<b>9</b>
<b>2- Social and Economic Dimensions of Housing</b>	<ul style="list-style-type: none"> <li>• Housing as social security and its role in family/community development</li> <li>• Housing and social indicators: safety, status, crime, deprivation, vulnerability</li> </ul>		<b>9</b>

	<ul style="list-style-type: none"> <li>• Gender and elderly housing issues</li> <li>• Housing's contribution to the economy: micro and macro scales</li> <li>• Housing and national GDP, wealth creation, fiscal mechanisms</li> <li>• Housing taxation, budgeting, fiscal concessions</li> <li>• Forward and backward linkages of the housing sector</li> </ul>	
<b>3- Housing in Urban Planning Context</b>	<ul style="list-style-type: none"> <li>• Housing as a land use in master and city development plans</li> <li>• Methodologies for city-level housing studies</li> <li>• Housing projections and land use provisions</li> <li>• Identifying housing stress areas</li> <li>• Methods of estimating housing shortages</li> <li>• Framework for housing allocation in planning</li> </ul>	<b>9</b>
<b>4- Planning for Neighbourhoods</b>	<ul style="list-style-type: none"> <li>• Traditional and contemporary concepts of neighbourhood living</li> <li>• Components and elements of neighbourhood structure</li> <li>• Planning and design criteria for modern neighbourhoods</li> <li>• Standards for area distribution and housing layouts</li> <li>• Density norms: net vs. gross residential density</li> <li>• Development controls and building byelaws</li> <li>• Relevant guidelines: UDPFI, NBC 2005</li> <li>• Case studies of neighbourhood planning and implementation</li> </ul>	<b>9</b>
<b>5- Sustainable and Inclusive Housing Approaches</b>	<ul style="list-style-type: none"> <li>• Green housing principles and sustainable design integration</li> <li>• Energy-efficient housing, water/energy conservation</li> <li>• Housing affordability and inclusivity</li> <li>• Housing for marginalized groups, slum upgrading, and rehabilitation</li> <li>• Inclusive housing policies and integrated housing development models</li> <li>• Review of recent housing schemes and missions (PMAY, RAY, etc.)</li> </ul>	<b>9</b>

**Course Outcomes:**

Upon completion of this course, students will be able to:

**CO 1:** Students will be able to classify housing typologies and analyse housing conditions using key indicators like affordability, overcrowding, and structural adequacy.

**CO 2:** Students will demonstrate the ability to analyse housing as a socio-economic asset and understand its impact on vulnerability, community well-being, and the economy.

**CO 3:** Students will assess housing demand and supply within city planning frameworks and perform housing need projections and allocation.

**CO 4:** Students will apply neighbourhood planning principles, design standards, and development controls in housing layout and planning.

**CO 5:** Students will recommend sustainable and inclusive housing strategies considering green technologies and housing policies for marginalized groups.

**Text/Reference books & journals:**

1. Jain, A.K. (2019) Housing for all, Khanna Book Publishing Co., New Delhi.
2. Cedric, P. (1990) Housing and Urbanisation: A Study of India, Sage, London. Course Code MPC107 Course Title Housing and Environment Planning No. of Credits
3. (L: 3; T:0; P: 0) Internal Assessment 50 Marks End Semester Assessment 100 Marks Total Assessment Marks 150 Marks 20 3. Hardoy, J.E. and Satterthwaite, D (1989) Squatter Citizen: Life in the Urban Third World, Routledge, London.
4. Kohli, V.K. (2007) Housing Finance Agencies in India, Deep and Deep, New Delhi.
5. Jenkins, P., Smith, H. and Wang, Y.P. (2007) Planning and Housing in the Rapidly Urbanizing World, Routledge, London.
6. McHarg, I. (2008) Design with Nature, Wiley, London. 25th Edition.
7. Ndubisi, F.O. (ed.) (2014) The Ecological Design and Planning Reader, Island Press, Washington, D.C.
8. Verma, G.D. (2001) Slumming India, Penguin, New Delhi.
9. Wallace-Wells, D. (2019) The Uninhabitable Earth, Crown Publishing, U.S.A.
10. Wachter, S.M. and Birch, E.L. (2008) Growing Greener Cities: Urban Sustainability in the Twenty First Century, University of Pennsylvania Press, Philadelphia, PA.
11. Whitehead, M. (2014) Environmental Transformation: A Geography of the Anthropocene, Routledge, New York.

**Assessment method:** (Continuous Internal Assessment = 50%, Final Examination = 50%)

<b>School Name- School of Architecture , Planning &amp; Design</b>			
<b>Program- M.U.R.P.</b>			<b>Semester-I</b>
<b>Course Name- PLANNING STUDIO WORK-I</b>			
<b>A.Y 2025-26</b>	<b>Course Code- M080225156</b>	<b>Batch- 2025-27</b>	<b>CIE Marks-250</b>
<b>Total Teaching Hours: 240</b>	<b>Total Credits-8</b>		<b>ESE Marks-250</b>
<b>Type of Course- Studio &amp; Practical</b>			<b>Total Marks-500</b>
<b>Course Objectives</b>			
<ol style="list-style-type: none"> <li>1. To enhance student awareness and critical understanding of real-world urban challenges through visual and academic media.</li> <li>2. To develop analytical skills by engaging with planning literature and summarizing its relevance to Indian urban contexts.</li> <li>3. To enable students to contextualize and assess urban areas spatially, socially, environmentally, and economically.</li> <li>4. To impart foundational skills in site planning by applying appropriate planning norms and contextual analysis.</li> <li>5. To foster collaborative visioning and strategic thinking through preparation of a City Development Plan.</li> </ol>			
<b>UNITS</b>	<b>Topics</b>		<b>No. of Teaching hours/ (Lecture)</b>
<b>1- Film Appreciation and Socio-Spatial Discourse</b>	<ul style="list-style-type: none"> <li>• Screening of films related to urban development, inequality, infrastructure, and socio-economic dynamics.</li> <li>• Post-screening group discourse on key themes.</li> <li>• Individual written reflection on the film's context, core message, and its relevance to Indian urban scenarios.</li> </ul>		<b>48</b>
<b>2- Literature Review and Critical Thinking</b>	<ul style="list-style-type: none"> <li>• Reading and analysing academic articles related to urban planning and policy.</li> <li>• Summarizing key components: problem statement, methodology, analysis, and relevance.</li> <li>• Understanding different planning paradigms through academic literature.</li> </ul>		<b>48</b>
<b>3- Area Appreciation and Local-Level Analysis</b>	<ul style="list-style-type: none"> <li>• Locational context analysis (region, city, zone, and ward).</li> <li>• Review of Master/Zonal/Area Plans.</li> <li>• Identification of urban typologies, socio-spatial stratification, formal/informal land use and tenure, and transport and infrastructure systems.</li> <li>• Field observations, photographic documentation, and stakeholder perceptions.</li> </ul>		<b>48</b>

<b>4- Site Planning and Development Potential</b>	<ul style="list-style-type: none"> <li>• Site analysis including topography, soil, environmental factors, land regulations.</li> <li>• Application of spatial and infrastructural standards.</li> <li>• Design proposals maximizing site potential, aligned with human activities and regulations.</li> <li>• Drafting of conceptual site layout using planning norms.</li> </ul>	<b>48</b>
<b>5- City Development Plan and Vision Building</b>	<ul style="list-style-type: none"> <li>• Understanding city systems and subsystems.</li> <li>• Identifying current challenges across infrastructure, environment, economy, and governance.</li> <li>• Scenario building and proposing a vision for sustainable city development.</li> <li>• Group presentations of city development strategy integrating planning tools and stakeholder perspectives.</li> </ul>	<b>48</b>
<p><b>Course Outcomes:</b>  Upon successful completion of the course, students will be able to:  <b>CO1:</b> Interpret urban issues through films and articulate their socio-economic and spatial implications in Indian contexts.  <b>CO2:</b> Critically analyse planning literature, identifying key methodologies, conclusions, and their relevance.  <b>CO3:</b> Evaluate and map urban areas using socio-spatial and infrastructural parameters based on real-world data.  <b>CO4:</b> Demonstrate competence in site-level planning, integrating environmental and physical characteristics with regulatory norms.  <b>CO5:</b> Design a comprehensive and forward-looking city development strategy, integrating multi-dimensional planning perspectives.</p>		

**Text/Reference books:**

1. *“Planning for Urban Development”* by Kuldeep Mathur provides insights into Indian urban planning practices and governance.
2. *“Site Planning”* by Kevin Lynch is a foundational text for understanding the technical and contextual aspects of planning a site.
3. *“The Image of the City”* by Kevin Lynch helps students conceptualize city forms and spatial identity.
4. *“Urban Planning Theory since 1945”* by Nigel Taylor provides a theoretical lens to critically evaluate planning approaches.
5. *“Urban Issues: Selections from Economic and Political Weekly”* offers a range of Indian urban challenges covered from policy, economic, and social perspectives.
6. Field manuals and planning norms such as *URDPFI Guidelines* and *TCPO documents* serve as essential tools for applied assignments in studio.

**Assessment method:** (Continuous Internal Assessment = 50%, Final Examination = 50%)

Practical Exam: 100 marks & Viva voce: 50 Marks based on studio assignment

## II SEMESTER

<b>School Name- School of Architecture , Planning &amp; Design</b>			
<b>Program- M.U.R.P.</b>			<b>Semester-II</b>
<b>Course Name- CITY AND METROPLITIAN PLANNING</b>			
<b>A.Y 2025-26</b>	<b>Course Code- M080225201</b>	<b>Batch- 2025-27</b>	<b>CIE Marks-50</b>
<b>Total Teaching Hours: 45</b>	<b>Total Credits-3</b>		<b>ESE Marks-50</b>
<b>Type of Course- Theory</b>			<b>Total Marks-100</b>
<b>Course Objectives</b>			
<ol style="list-style-type: none"> <li>1. To introduce students to the key concepts and classifications related to cities and metropolitan regions.</li> <li>2. To understand the theoretical evolution and delineation of metropolitan regions and agglomerations.</li> <li>3. To develop knowledge about metropolitan regional planning approaches, institutional frameworks, and governance mechanisms.</li> <li>4. To explore the causes, patterns, and stakeholders involved in the peripheral growth of metropolitan areas.</li> <li>5. To assess the environmental implications of metropolitan expansion and explore sustainable development strategies for peripheral regions.</li> </ol>			
<b>UNITS</b>	<b>Topics</b>		<b>No. of Teaching hours/ (Lecture)</b>
<b>1- Introduction to Metropolitan Concepts</b>	<ul style="list-style-type: none"> <li>• Definitions and distinctions: cities, metropolitan cities, megacities, conurbations, metropolitan agglomerations, and regions</li> <li>• Physical, economic, and political structures of metropolitan regions</li> <li>• Understanding globalization and extended metropolitan regions</li> <li>• Desakota model and rural-urban territorial interactions</li> </ul>		<b>9</b>
<b>2- Theories and Evolution of Metropolitan Regions</b>	<ul style="list-style-type: none"> <li>• Theories of metropolitan region evolution (e.g., Burgess, Hoyt, Core-Periphery, etc.)</li> <li>• Delineation techniques for identifying metropolitan regions</li> <li>• Concepts of polycentric development and spatial integration</li> <li>• Case examples of evolving metropolitan forms</li> </ul>		<b>9</b>
<b>3- Metropolitan Regional</b>	<ul style="list-style-type: none"> <li>• Approaches and methods for metropolitan regional planning</li> </ul>		<b>9</b>

<b>Planning and Governance</b>	<ul style="list-style-type: none"> <li>• Role and functions of metropolitan planning organizations (national and international)</li> <li>• Planning institutions in India (e.g., NCRPB, MRVC, KMDA)</li> <li>• Policy frameworks for regional planning in India</li> <li>• Implementation challenges and strategies for regional plans</li> </ul>	
<b>4- Peripheralization of Metropolitan Regions</b>	<ul style="list-style-type: none"> <li>• Nature and drivers of peripheral development</li> <li>• Socio-economic, political, and spatial factors influencing peripheralization</li> <li>• Stakeholders and actors involved: private developers, government, communities</li> <li>• Role of infrastructure, housing, and real estate in peripheral growth</li> </ul>	<b>9</b>
<b>5- Environment and Peripheral Development</b>	<ul style="list-style-type: none"> <li>• Environmental assets in the peripheries: forests, water bodies, wetlands</li> <li>• Impact of urban expansion on ecological systems</li> <li>• Environmental governance and regulatory frameworks</li> <li>• Integrating sustainability in peripheral development planning</li> <li>• Case studies of ecological degradation and restoration initiatives</li> </ul>	<b>9</b>
<p><b>Course Outcomes:</b> Upon completion of this course, students will be able to:</p> <p><b>CO 1:</b> Students will be able to define and differentiate between various urban and metropolitan typologies and models of regional interaction.</p> <p><b>CO 2:</b> Students will interpret the evolution of metropolitan regions and apply techniques for their spatial delineation.</p> <p><b>CO 3:</b> Students will analyse institutional roles and formulate approaches for effective metropolitan regional planning.</p> <p><b>CO 4:</b> Students will identify trends and stakeholders in peripheral development and assess their impact on spatial planning.</p> <p><b>CO 5:</b> Students will evaluate environmental issues in metropolitan peripheries and propose sustainable planning measures.</p>		

**Text/Reference books & Journals:**

1. Evenson, N. (1989) Indian Metropolis - A View toward the West, Yale University Press, Yale.
2. Kennedy, K. (2007) Regional industrial policies driving peri-urban dynamics in Hyderabad, India, Cities, Vol. 24, No. 2, pp. 95–109.
3. Kumar, A. (2006) Trends of Planning and Governance in Metropolitan India, ITPI Journal, Vol. 3, No. 2, pp. 10-20.
4. Mitra, S. (2017) 'A 'peripheries' view of planning failures in Kolkata and Hyderabad in India', in G. Bhan, S. Srinivas, and V. Watson (eds.) The Routledge Companion to Planning in the Global South, Routledge, London. 26

5. Mitra, S. (2018) Roads to New Urban Futures: Flexible Territorialisation in Peri-urban Kolkata and Hyderabad, *Economic and Political Weekly*, Vol. 53, No 56, pp. 56-64.
6. Miraftab, F. and Kudva, N. (2014) *Cities of Global South*, Routledge, London.

**Assessment method:** (Continuous Internal Assessment = 50%, Final Examination = 50%)

<b>School Name- School of Architecture , Planning &amp; Design</b>			
<b>Program- M.U.R.P.</b>			<b>Semester-II</b>
<b>Course Name- INFRASTRUCTURE PLANNING</b>			
<b>A.Y 2025-26</b>	<b>Course Code- M080225202</b>	<b>Batch- 2025-27</b>	<b>CIE Marks-50</b>
<b>Total Teaching Hours: 45</b>	<b>Total Credits-3</b>		<b>ESE Marks-50</b>
<b>Type of Course- Theory</b>			<b>Total Marks-100</b>
<b>Course Objectives</b>			
<ol style="list-style-type: none"> <li>1. To introduce the fundamental components and planning principles of urban water supply, sanitation, and drainage systems.</li> <li>2. To understand the interrelation of infrastructure systems with land use, urban form, and public health.</li> <li>3. To equip students with knowledge of social infrastructure needs, standards, and location techniques.</li> <li>4. To familiarize students with solid waste management systems, including treatment technologies and integration in planning.</li> <li>5. To assess the role of national infrastructure policies, programs, and strategies in shaping urban infrastructure planning.</li> </ol>			
<b>UNITS</b>	<b>Topics</b>		<b>No. of Teaching hours/ (Lecture)</b>
<b>1- Urban Water Supply Systems</b>	<ul style="list-style-type: none"> <li>• Components of water supply systems and network mapping</li> <li>• Sources of water, quality, quantity, and demand estimation</li> <li>• Storage and distribution systems</li> <li>• Rainwater harvesting systems: design, location criteria, land use implications</li> <li>• Best practices and innovations in urban water supply</li> <li>• National water programmes and policies</li> </ul>		<b>9</b>
<b>2- Sanitation, Sewerage and storm water drainage Systems</b>	<ul style="list-style-type: none"> <li>• Principles of sanitation, sewerage system planning and network mapping</li> <li>• Wastewater characteristics and treatment methods</li> <li>• Impacts of industrial pollutants</li> <li>• Open defecation, manual scavenging: issues and interventions</li> <li>• Low-cost and innovative sanitation solutions</li> <li>• Estimation of sewer generation and network design</li> <li>• Storm water drainage systems, network planning</li> </ul>		<b>9</b>
<b>3- Solid Waste Management</b>	<ul style="list-style-type: none"> <li>• Solid Waste Management (SWM): classification and characteristics</li> <li>• Methods of collection, storage, transport, disposal</li> <li>• Waste processing, treatment, and landfilling techniques</li> </ul>		<b>9</b>

	<ul style="list-style-type: none"> <li>• Integration waste systems in urban planning</li> </ul>	
<b>4- Social Infrastructure Planning</b>	<ul style="list-style-type: none"> <li>• Typologies of social infrastructure (education, health, recreation, socio-cultural)</li> <li>• Norms and space standards (urban and rural contexts)</li> <li>• Role of health and education facilities in urban development</li> <li>• Techniques for facility location (e.g., scalogram, accessibility methods)</li> </ul>	<b>9</b>
<b>5- Infrastructure Policies, Programs, and Planning</b>	<ul style="list-style-type: none"> <li>• Overview of government schemes: JNNURM, AMRUT, HRIDAY, Smart Cities</li> <li>• Infrastructure standards and norms across spatial levels</li> <li>• Infrastructure in development plans: master plans, sectoral plans, local area plans</li> <li>• Assessment techniques for infrastructure needs</li> </ul>	<b>9</b>
<p><b>Course Outcomes:</b> Upon completion of this course, students will be able to:</p> <p><b>CO 1:</b> Students will be able to evaluate and design water supply systems considering urban needs and innovations.</p> <p><b>CO 2:</b> Students will apply principles of sewerage and sanitation planning and suggest context-specific solutions for waste disposal.</p> <p><b>CO 3:</b> Students will plan for stormwater and solid waste infrastructure based on technical, environmental, and spatial parameters.</p> <p><b>CO 4:</b> Students will assess and propose appropriate social infrastructure based on demographic and spatial needs.</p> <p><b>CO 5:</b> Students will critically analyse infrastructure missions and prepare infrastructure components within development plans.</p>		

**Text/Reference books & Journals:**

1. Luigi Fusco Girard and Peter Nijkamp (editors) Cultural Tourism and Sustainable Local Development 2009 Ashgate, Burlington
2. Nirmala Rao Khadpekar Urban revitalization : perspectives and initiatives / 2008 ICFAI University Press
3. Richard Longstreth (editor) Cultural Landscapes: Balancing Nature and Heritage in Preservation Practice 2008 University of Minnesota Press
4. Cohen, Naoum Urban Planning Conservation and Preservation 2001 McGraw-Hill
5. Ismailb Serageldin, Ephim Shluger, Joan Martin-Brown (editors) Historic Cities and Sacred Sites: Cultural Roots for Urban Futures 2001 The World Bank

**Assessment method:** (Continuous Internal Assessment = 50%, Final Examination = 50%)

<b>School Name- School of Architecture , Planning &amp; Design</b>			
<b>Program- M.U.R.P.</b>			<b>Semester-II</b>
<b>Course Name- ELECTIVE I- INCLUSIVE URBAN PLANNING</b>			
<b>A.Y 2025-26</b>	<b>Course Code- M080225203(A)</b>	<b>Batch- 2025-27</b>	<b>CIE Marks-50</b>
<b>Total Teaching Hours: 45</b>	<b>Total Credits-3</b>		<b>ESE Marks-50</b>
<b>Type of Course- Theory</b>			<b>Total Marks-100</b>
<b>Course Objectives</b>			
<ol style="list-style-type: none"> <li>1. To understand the principles and relevance of inclusive planning in urban development.</li> <li>2. To analyse the socio-economic characteristics and needs of various marginalized and vulnerable groups.</li> <li>3. To familiarize students with participatory approaches and policy frameworks supporting inclusive development.</li> <li>4. To introduce planning tools and interventions aimed at improving inclusivity in zoning, regulations, and housing.</li> <li>5. To study real-world cases that illustrate successful inclusive planning practices and innovations.</li> </ol>			
<b>UNITS</b>	<b>Topics</b>		<b>No. of Teaching hours/ (Lecture)</b>
<b>1- Understanding Inclusive Planning</b>	<ul style="list-style-type: none"> <li>• Definition and principles of inclusive planning</li> <li>• Components of inclusive urban development</li> <li>• Importance of inclusivity in urban and regional planning</li> <li>• Social equity, rights-based approach, and spatial justice</li> </ul>		<b>8</b>
<b>2- Stakeholder Profiling and Access to Basic Needs</b>	<ul style="list-style-type: none"> <li>• Understanding the needs of marginalized groups: urban poor, informal sector workers, women, children, elderly, disabled, displaced</li> <li>• Slums: causes, dimensions, determinants, and spatial characteristics</li> <li>• Informal sector: growth, features, economic functions, and linkages with formal urban systems</li> <li>• Challenges in access to shelter, services, and livelihoods</li> </ul>		<b>10</b>
<b>3- Participatory Planning, Policies and Legal Framework</b>	<ul style="list-style-type: none"> <li>• Participatory planning methods and stakeholder roles</li> <li>• Role of NGOs, CBOs, and civil society in inclusive planning</li> <li>• Review of national and state-level policies, five-year plans, and schemes related to inclusivity (e.g., PMAY, RAY, DAY-NULM)</li> <li>• Legal provisions: housing rights, slum laws, urban development acts</li> </ul>		<b>9</b>

<b>4- Planning Tools and Interventions</b>	<ul style="list-style-type: none"> <li>• Tools for inclusive planning: needs assessment, social mapping, participatory appraisal</li> <li>• Inclusive zoning strategies</li> <li>• Building and development regulation reforms to enable inclusivity</li> <li>• Approaches for slum improvement and upgradation</li> <li>• Shelter and housing delivery mechanisms</li> </ul>	<b>9</b>
<b>5- Case Studies and Good Practices</b>	<ul style="list-style-type: none"> <li>• National and international case studies of inclusive planning</li> <li>• Evaluation of inclusive urban development projects</li> <li>• Lessons from community-based planning initiatives</li> <li>• Innovations in governance and participatory budgeting</li> </ul>	<b>9</b>

**Course Outcomes:**

Upon completion of this course, students will be able to:

- CO 1:** Students will be able to define and apply the core concepts of inclusive planning in urban contexts.
- CO 2:** Students will assess the diverse needs and conditions of marginalized groups in relation to shelter, services, and livelihoods.
- CO 3:** Students will identify and interpret relevant policies, laws, and participatory processes for inclusive development.
- CO 4:** Students will propose planning interventions like inclusive zoning and slum improvement strategies to enhance equity.
- CO 5:** Students will critically evaluate inclusive planning case studies and derive insights for practical application.

**Text/Reference books:**

1. Urban and Regional Development Plan Formulations and implementation (URDPFI) guidelines , 2015
2. Edited by Richard T. Legates and Frederic Stout “The city reader “
3. Rangwala S.C” Town Planning

**Assessment method:** (Continuous Internal Assessment = 50%, External Examination = 50%)

<b>School Name- School of Architecture , Planning &amp; Design</b>			
<b>Program- M.U.R.P.</b>			<b>Semester-III</b>
<b>Course Name- ELECTIVE I- URBAN HERITAGE &amp; CONSERVATION</b>			
<b>A.Y 2025-26</b>	<b>Course Code- M080225203(B)</b>	<b>Batch- 2025-27</b>	<b>CIE Marks-50</b>
<b>Total Teaching Hours: 45</b>	<b>Total Credits-3</b>		<b>ESE Marks-50</b>
<b>Type of Course- Theory</b>			<b>Total Marks-100</b>
<b>Course Objectives</b>			
<ol style="list-style-type: none"> <li>1. To introduce the concepts and classifications of urban heritage.</li> <li>2. To understand natural and built heritage conservation principles and methods.</li> <li>3. To explore the role of heritage in tourism and related policy frameworks.</li> <li>4. To analyse legal frameworks and institutional roles in heritage conservation.</li> <li>5. To examine urban design principles relevant to regeneration and sustainable conservation.</li> </ol>			
<b>UNITS</b>	<b>Topics</b>		<b>No. of Teaching hours/ (Lecture)</b>
<b>1- Introduction to Urban Heritage</b>	<ul style="list-style-type: none"> <li>• Typology/classification of heritage</li> <li>• Inventories and mapping techniques</li> <li>• Historical human habitation and its evolution</li> <li>• Heritage as a driver of sustainable urban development</li> </ul>		<b>9</b>
<b>2- Conservation of Natural and Built Heritage</b>	<ul style="list-style-type: none"> <li>• Natural heritage typologies and conservation policies</li> <li>• Regulatory mechanisms and community involvement</li> <li>• Built heritage conservation: form determinants, historic urban infrastructure, traditional water systems</li> <li>• Intangible cultural heritage and strategies for its preservation</li> <li>• Preparation of conservation and heritage management plans</li> </ul>		<b>9</b>
<b>3- Heritage, Tourism and Legal Frameworks</b>	<ul style="list-style-type: none"> <li>• Cultural and heritage tourism: prospects, strategies, and marketing</li> <li>• Legal acts and policies (including 74th CAA)</li> <li>• Toolkit for conservation and regeneration</li> <li>• Institutional frameworks and stakeholder roles</li> </ul>		<b>9</b>
<b>4- Urban Design and Heritage</b>	<ul style="list-style-type: none"> <li>• Determinants of urban design: social, cultural, ecological, energy</li> <li>• Imageability and perception of urban space</li> <li>• Location criteria for urban activities and uses</li> <li>• Historic Urban Landscapes and design integration</li> </ul>		<b>9</b>
<b>5- Urban Regeneration</b>	<ul style="list-style-type: none"> <li>• Concepts and distinctions: regeneration, renewal, rehabilitation, revitalization, reconstruction, redevelopment</li> </ul>		<b>9</b>

<b>and Heritage-Led Development</b>	<ul style="list-style-type: none"> <li>• Interventions, approaches, methods, and tools</li> <li>• Role of heritage in urban redevelopment</li> </ul>	
<p><b>Course Outcomes:</b> Upon completion of this course, students will be able to:</p> <p><b>CO 1:</b> Students will be able to classify urban heritage, conduct heritage mapping, and analyse its role in sustainable development.</p> <p><b>CO 2:</b> Students will understand techniques for conserving natural, built, and intangible heritage and prepare basic conservation strategies and plans.</p> <p><b>CO 3:</b> Students will evaluate tourism's relationship with heritage and apply knowledge of legal frameworks and toolkits in conservation planning.</p> <p><b>CO 4:</b> Students will be able to integrate design considerations with heritage planning and analyse urban form in historical contexts..</p> <p><b>CO 5:</b> Students will be able to propose heritage-led urban regeneration strategies and assess different intervention approaches.</p>		

**Text/Reference books:**

- Luigi Fusco Girard and Peter Nijkamp (editors) Cultural Tourism and Sustainable Local Development 2009 Ashgate, Burlington
- Nirmala Rao Khadpekar Urban revitalization : perspectives and initiatives / 2008 ICFAI University Press
- Richard Longstreth (editor) Cultural Landscapes: Balancing Nature and Heritage in Preservation Practice 2008 University of Minnesota Press
- Cohen, Naoum Urban Planning Conservation and Preservation 2001 McGraw-Hill
- Ismailb Serageldin, Ephim Shluger, Joan Martin-Brown (editors) Historic Cities and Sacred Sites: Cultural Roots for Urban Futures 2001 The World Bank

**Assessment method:** (Continuous Internal Assessment = 50%, Practical Examination = 50%)

<b>School Name- School of Architecture , Planning &amp; Design</b>			
<b>Program- M.U.R.P.</b>			<b>Semester-II</b>
<b>Course Name- ENVIRONMENTAL PLANNING &amp; MANAGEMENT</b>			
<b>A.Y 2025-26</b>	<b>Course Code- M080225204</b>	<b>Batch- 2025-27</b>	<b>CIE Marks-50</b>
<b>Total Teaching Hours: 45</b>	<b>Total Credits-3</b>		<b>ESE Marks-50</b>
<b>Type of Course- Theory</b>			<b>Total Marks-100</b>
<b>Course Objectives</b>			
<ol style="list-style-type: none"> <li>1. To introduce fundamental concepts of ecology and their relevance in environmental and urban planning.</li> <li>2. To understand the resource base and conservation imperatives for sustainable development.</li> <li>3. To analyse various environmental zones and the strategies for managing them effectively.</li> <li>4. To familiarize students with environmental policies, protocols, and management techniques.</li> <li>5. To explore innovative and sustainable technologies for environmental conservation and energy use.</li> </ol>			
<b>UNITS</b>	<b>Topics</b>		<b>No. of Teaching hours/ (Lecture)</b>
<b>1- Introduction to Environmental Planning and Ecology</b>	<ul style="list-style-type: none"> <li>• History of environmental planning</li> <li>• Habitat patterns and settlement structures in response to environmental challenges</li> <li>• Concepts of ecology and ecosystem</li> <li>• Urban ecosystem</li> </ul>		<b>9</b>
<b>2- Resource Analysis and Conservation</b>	<ul style="list-style-type: none"> <li>• Ecosystem resource analysis (land, soil, water, climate, geology, vegetation)</li> <li>• Development imperatives and resource degradation</li> <li>• Analytical techniques for resource evaluation</li> </ul>		<b>9</b>
<b>3- Environmental Zones and Management</b>	<ul style="list-style-type: none"> <li>• Environmental zones: hill, coastal, arid</li> <li>• Resource characteristics, settlement patterns, problems, and potentials</li> <li>• Regulating mechanisms and development controls</li> <li>• Environmental management of sensitive areas and watersheds</li> </ul>		<b>9</b>
<b>4- Environmental Policies and Technologies</b>	<ul style="list-style-type: none"> <li>• Environmental policies, protocols, strategies, and international conventions</li> <li>• Resource management: land, water, forests, wildlife, minerals</li> <li>• Urban environmental management techniques</li> </ul>		<b>9</b>

	<ul style="list-style-type: none"> <li>• Participatory approaches to environmental planning</li> </ul>	
<b>5- Sustainable and Alternate Technologies</b>	<ul style="list-style-type: none"> <li>• Waste management: disposal, minimization, treatment, recycling</li> <li>• Water harvesting and low-cost technologies</li> <li>• Models of collaboration in environmental planning</li> <li>• Alternate energy technologies: solar, biomass, wind, hydro, nuclear</li> </ul>	<b>9</b>
<p><b>Course Outcomes:</b> Upon completion of this course, students will be able to:</p> <p><b>CO 1:</b> Understand and apply ecological principles to environmental and urban planning processes.  <b>CO 2:</b> Assess natural resource characteristics and identify strategies for their conservation and sustainable use.  <b>CO 3:</b> Evaluate challenges in diverse environmental zones and recommend appropriate planning interventions.  <b>CO 4:</b> Interpret and apply environmental policies and conventions in planning practices.  <b>CO 5:</b> Propose and assess appropriate and alternative technologies for resource and energy management in planning projects.</p>		

**Text/Reference books & Journals:**

1. **Goudie, A.** (2006). *The Human Impact on the Natural Environment – Past, Present and Future*. Wiley Publishers.
2. **Lein, J. K.** (2002). *Integrated Environmental Planning*. Wiley Publishers.
3. **Dale, V. H., & English, M. R.** (Eds.). (Latest Edition). *Tools to Aid Environmental Decision Making*. Springer.
4. **Fox, W., & Van Rooyen, E.** (Eds.). (2004). *The Quest for Sustainable Development*. Juta & Co. Ltd., Cape Town.
5. **Singh, J. S., & Singh, S. P.** (2008). *Ecology, Environment and Resource Conservation*. Anamaya Publishers, New Delhi.
6. **UNEP & UNCHS (Habitat).** (Latest Edition). *Environmental Guidelines for Settlement Planning and Management*. UNEP, Nairobi, Kenya.
7. **Rodgers, P. P., Jalal, K. F., & Boyd, J. A.** (2008). *An Introduction to Sustainable Development*. Prentice Hall of India.
8. **Friedman, F. B.** (9th Edition). *Practical Guide to Environmental Management*. Environmental Law Institute, Washington.
9. **Central Pollution Control Board (CPCB).** *Publications on Air, Water and Noise Pollution, and Waste Management*. Available at: [www.cpcb.nic.in](http://www.cpcb.nic.in)
10. **Ministry of New and Renewable Energy (MNRE).** *Resources on Renewable Energy Technologies*. Available at: [www.mnre.nic.in](http://www.mnre.nic.in)
11. **Odum, E., Barrick, M., & Barrett, G. W.** (2005). *Fundamentals of Ecology*. Cengage Learning.

**Assessment method:** (Continuous Internal Assessment = 50%, Final Examination = 50%)

<b>School Name- School of Architecture , Planning &amp; Design</b>			
<b>Program- M.U.R.P.</b>			<b>Semester-II</b>
<b>Course Name- PLANNING LEGISLATION &amp; URBAN GOVERNANCE</b>			
<b>A.Y 2025-26</b>	<b>Course Code- M080225205</b>	<b>Batch- 2025-27</b>	<b>CIE Marks-50</b>
<b>Total Teaching Hours: 45</b>	<b>Total Credits-3</b>		<b>ESE Marks-50</b>
<b>Type of Course- Theory</b>			<b>Total Marks-100</b>
<b>Course Objectives</b>			
<ol style="list-style-type: none"> <li>1. To develop a foundational understanding of urban governance structures and their legislative underpinnings.</li> <li>2. To examine the institutional and legal frameworks that govern urban and regional planning.</li> <li>3. To analyse the roles of various stakeholders and participatory mechanisms in urban decision-making.</li> <li>4. To assess legal tools and policies that shape urban development and planning practice.</li> <li>5. To introduce professional ethics, responsibilities, and management techniques relevant to planning consultancy.</li> </ol>			
<b>UNITS</b>	<b>Topics</b>		<b>No. of Teaching hours/ (Lecture)</b>
<b>1- Introduction to Urban Governance</b>	<ul style="list-style-type: none"> <li>• Concepts of governance vs. government</li> <li>• Hierarchy and forms of governance</li> <li>• Components and processes of inclusion and exclusion</li> <li>• Overview of stakeholders in urban governance</li> </ul>		<b>9</b>
<b>2- Legislative Framework for Urban Governance</b>	<ul style="list-style-type: none"> <li>• 73rd and 74th Constitutional Amendments</li> <li>• Institutional framework and decentralization</li> <li>• Role and powers of Urban Local Bodies (ULBs)</li> <li>• Planning legislation: Town and Country Planning Act, Development Authority Act.</li> </ul>		<b>9</b>
<b>3- Urban Institutions and Participatory Governance</b>	<ul style="list-style-type: none"> <li>• Institutions vs. organizations: structure, functions, conflicts</li> <li>• Role of NGOs, civil society, and community-based organizations</li> <li>• Participatory processes in planning and governance</li> <li>• Stakeholder engagement and evaluation of effectiveness</li> </ul>		<b>9</b>
<b>4- Planning Laws and Regulatory Tools</b>	<ul style="list-style-type: none"> <li>• Key planning-related laws: Land Acquisition Act, Environmental Protection Act, SEZ Act, Disaster Management Act</li> <li>• Concepts: eminent domain, police power, betterment levy, public participation in statutory planning</li> </ul>		<b>9</b>

	<ul style="list-style-type: none"> <li>Legal tools: zoning, development control regulations, Transfer of Development Rights (TDR), accommodation reservation</li> </ul>	
<b>5- Professional Practice and Ethics in Planning</b>	<ul style="list-style-type: none"> <li>Laws on slums, housing, traffic, conservation, and heritage</li> <li>Professional ethics, code of conduct, and responsibilities of planners</li> <li>Consultancy project lifecycle: EOI, RFP, contract agreements</li> <li>Role of inter-disciplinary teams, office management, global agreements (GATT, WTO)</li> </ul>	<b>9</b>
<p><b>Course Outcomes:</b> Upon completion of this course, students will be able to:</p> <p><b>CO 1:</b> Explain the core principles and forms of urban governance and planning legislation in India. <b>CO 2:</b> Interpret the key provisions of constitutional amendments, planning acts, and environmental laws. <b>CO 3:</b> Evaluate the role and effectiveness of institutions and participatory mechanisms in urban governance. <b>CO 4:</b> Apply legal and regulatory tools to real-world planning scenarios. <b>CO 5:</b> Demonstrate awareness of ethical and professional standards in planning practice and project management.</p>		

#### **Text/Reference books :**

- Rhodes, R.A.W.** (1997). *Understanding Governance: Policy Networks, Governance, Reflexivity and Accountability*. Maidenhead & Philadelphia: Open University Press.
- Jayal, N.G., Prakash, A., & Sharma, P.K.** (2006). *Local Governance in India: Decentralization and Beyond*. New Delhi: Oxford University Press.
- Baud, I.S.A. & de Wit, J.** (2008). *New Forms of Urban Governance in India: Shifts, Models, Networks and Contestations*. New Delhi: Sage Publications.
- Kulshrestha, S.K.** (2012). *Urban and Regional Planning in India: Handbook for Professional Practice*. New Delhi: Sage Publications.
- Institute of Town Planners, India (ITPI).** (2011). *Conditions of Engagement of Professional Services and Scale of Professional Fee and Charges*. New Delhi: ITPI.
- Central Public Works Department (CPWD).** (2012). *CPWD Manual 2012*. New Delhi: CPWD.

#### **Government Acts and Documents**

##### **Government of India.**

- The Indian Contract Act, 1872
- The Arbitration and Conciliation Act, 1996
- The Constitution of India, including the 73rd & 74th Constitutional Amendment Acts, 1992
- Model Rent Control Legislation
- The Slum (Improvement and Clearance) Act, 1956

- The Land Acquisition Act, 1894 and subsequent amendments
- The Environment (Protection) Act, 1986
- The National Capital Region Planning Board Act
- Model Town and Regional Planning and Development Law

**Governments of Various States.**

- State-specific Acts related to Town Planning, Slum Clearance, Municipalities, and Development Authorities

**Assessment method:** (Continuous Internal Assessment = 50%, Final Examination = 50%)

<b>School Name- School of Architecture , Planning &amp; Design</b>			
<b>Program- M.U.R.P.</b>			<b>Semester-II</b>
<b>Course Name- PLANNING STUDIO WORK-II</b>			
<b>A.Y 2025-26</b>	<b>Course Code- M080225256</b>	<b>Batch- 2025-27</b>	<b>CIE Marks-200</b>
<b>Total Teaching Hours: 240</b>	<b>Total Credits-8</b>		<b>ESE Marks-200</b>
<b>Type of Course- Studio &amp; Practical</b>			<b>Total Marks-400</b>
<b>Course Objectives</b>			
<ol style="list-style-type: none"> <li>1. To equip students with technical skills in geo-informatics and its application in planning.</li> <li>2. To provide hands-on experience in planning a city through field-based, data-driven studio work.</li> <li>3. To enable students to critically analyse existing urban issues using primary and secondary data.</li> <li>4. To guide students in formulating practical and implementable development strategies.</li> <li>5. To train students in preparing professional-quality technical reports and urban planning documentation.</li> </ol>			
<b>UNITS</b>	<b>Topics</b>		<b>No. of Teaching hours/ (Lecture)</b>
<b>1- Fundamentals of Geo-Informatics</b>	<ul style="list-style-type: none"> <li>• Introduction to geo-informatics and its relevance in urban and regional planning.</li> <li>• Basics of Remote Sensing (RS): aerial photography and satellite imagery.</li> <li>• Understanding GIS: spatial and attribute data, data models, and data sources.</li> <li>• Image interpretation and georeferencing.</li> <li>• Application of remote sensing and GIS in baseline information generation and spatial analysis.</li> </ul>		<b>48</b>
<b>2- Development Plan – Background Studies and Contextual Understanding</b>	<ul style="list-style-type: none"> <li>• Introduction to the studio theme: sustainable city planning, metropolitan development, or sectoral focus.</li> <li>• Literature review of case studies, planning standards, and best practices.</li> <li>• Theoretical frameworks and planning concepts applicable to the studio.</li> <li>• Preparation of detailed data requirement checklist and fieldwork planning.</li> </ul>		<b>48</b>
<b>3- Field Data Collection and GIS Integration</b>	<ul style="list-style-type: none"> <li>• Conducting primary surveys and stakeholder interviews.</li> <li>• Secondary data collection from government sources, census, and master plans.</li> <li>• Integration of GIS in spatial mapping, land use analysis, infrastructure assessment.</li> </ul>		<b>48</b>

	<ul style="list-style-type: none"> <li>• Database development, layering, and spatial interpretation using GIS software.</li> </ul>	
<b>4- Data Analysis, Strategy Formulation, and Proposal Development</b>	<ul style="list-style-type: none"> <li>• Demographic, economic, infrastructure, environmental, and institutional analysis.</li> <li>• SWOT, land suitability, and trend analysis for development planning.</li> <li>• Vision, goals, and objective setting for the city/area.</li> <li>• Drafting proposals, sectoral strategies, and land use plans.</li> </ul>	<b>48</b>
<b>5- Technical Reporting, Short Thematic Project &amp; Evaluation</b>	<ul style="list-style-type: none"> <li>• Documentation of the complete development plan in technical report format.</li> <li>• A short thematic studio exercise on issues like informal sector, railway land development, or property tax reform.</li> <li>• Analysis based on intensive surveys and preparation of actionable recommendations.</li> <li>• Final presentation, peer feedback, and evaluation of proposals and report quality.</li> </ul>	<b>48</b>

**Course Outcomes:**

Upon successful completion of the course, students will be able to:

**CO1:** Apply remote sensing and GIS tools for data collection, analysis, and spatial decision-making in planning.

**CO2:** Conduct fieldwork and analyze urban conditions based on socio-economic and spatial data.

**CO3:** Develop comprehensive and strategic development plans for large or emerging cities using real-world data.

**CO4:** Translate core subject knowledge into planning practice through integrated studio exercises.

**CO5:** Prepare and present high-quality technical reports and recommendations addressing planning problems.

**Text/Reference books:**

1. *“Remote Sensing and GIS for Urban Planning”* by Lillesand, Kiefer, and Chipman offers foundational knowledge on satellite data interpretation for planning.
2. *“Geographic Information Systems and Science”* by Paul Longley and Michael Goodchild provides practical applications of GIS in planning.
3. *“Urban and Regional Development Plans: Practice and Guidelines”* by Kuldeep Mathur gives insight into real-world planning approaches in the Indian context.
4. *“The Urban Pattern: City Planning and Design”* by Gallion and Eisner helps in understanding planning principles relevant to development plan formulation.
5. *URDPFI Guidelines* and *Master Plan Reports* serve as important practical resources for norms, standards, and contextual planning tools.

**Assessment method:** (Continuous Internal Assessment = 50%, Final Examination = 50%) Viva voce: 200 Marks based on studio assignments.

**SDGI GLOBAL UNIVERSITY**

**SCHOOL OF ARCHITECTURE, PLANNING AND DESIGN**

**SECOND YEAR CURRICULUM**

**PROGRAM: Master in Urban & Regional Planning (M.U.R.P.)**

### III SEMESTER

<b>School Name- School of Architecture , Planning &amp; Design</b>			
<b>Program- M.U.R.P.</b>			<b>Semester-III</b>
<b>Course Name- ELECTIVE II- PLANNING FOR TOURISM</b>			
<b>A.Y 2025-26</b>	<b>Course Code- M080225301(A)</b>	<b>Batch- 2024-26</b>	<b>CIE Marks-50</b>
<b>Total Teaching Hours: 45</b>	<b>Total Credits-3</b>		<b>ESE Marks-50</b>
<b>Type of Course- Theory</b>			<b>Total Marks-100</b>
<b>Course Objectives</b>			
<ol style="list-style-type: none"> <li>1. To introduce the scope, dimensions, and classification of tourism as a global industry.</li> <li>2. To analyse the interrelationship between tourism and urban development, including forecasting and capacity planning.</li> <li>3. To understand the socio-cultural and environmental implications of tourism growth.</li> <li>4. To study the principles, methods, and stakeholders involved in sustainable tourism planning and management.</li> <li>5. To familiarize students with tourism policies, promotional strategies, and marketing tools used in tourism development.</li> </ol>			
<b>UNITS</b>	<b>Topics</b>		<b>No. of Teaching hours/ (Lecture)</b>
<b>1- Introduction to Tourism</b>	<ul style="list-style-type: none"> <li>• Definitions, scope, and nature of tourism</li> <li>• Classification and dimensions of tourism</li> <li>• Tourism as a global industry</li> <li>• Growth of tourism in developed vs. developing countries</li> </ul>		<b>9</b>
<b>2- Tourism and Urban Development</b>	<ul style="list-style-type: none"> <li>• Relationship between tourism and urban development</li> <li>• Tourism multiplier effect</li> <li>• Forecasting methods for tourism demand and growth</li> <li>• Carrying capacity and capacity building in tourism development</li> </ul>		<b>9</b>
<b>3- Socio-Cultural and Environmental Impacts</b>	<ul style="list-style-type: none"> <li>• Socio-cultural impacts of tourism on host communities</li> <li>• Cultural change and tourism-related social problems</li> <li>• Environmental degradation due to tourism</li> <li>• Balancing tourism development with environmental and cultural conservation</li> </ul>		<b>9</b>
<b>4- Tourism Planning and Management</b>	<ul style="list-style-type: none"> <li>• Nature and scope of tourism planning</li> <li>• Planning process: issues, data requirements, and surveys</li> <li>• Stakeholders and their roles in tourism policy and planning</li> <li>• Sustainable tourism development and community participation</li> </ul>		<b>9</b>

	<ul style="list-style-type: none"> <li>Implementation, monitoring, and tourism project management</li> </ul>	
<b>5- Policies, Programmes, and Marketing</b>	<ul style="list-style-type: none"> <li>Tourism policies at national, state, and local levels</li> <li>Role of tourism promotion agencies</li> <li>Tourism marketing: concepts, techniques, and strategies</li> <li>Case studies of successful tourism planning and marketing initiatives</li> </ul>	<b>9</b>
<p><b>Course Outcomes:</b> Upon completion of this course, students will be able to:</p> <p><b>CO 1:</b> Students will be able to define and differentiate the various dimensions and classifications of tourism.</p> <p><b>CO 2:</b> Students will understand the dynamic interaction between tourism and urban systems, and apply methods for forecasting tourism demand.</p> <p><b>CO 3:</b> Students will assess the socio-cultural and environmental impacts of tourism and suggest mitigation strategies.</p> <p><b>CO 4:</b> Students will develop a comprehensive understanding of tourism planning stages, stakeholder roles, and sustainable development practices.</p> <p><b>CO 5:</b> Students will evaluate tourism policies and apply marketing techniques to promote and manage tourism initiatives.</p>		

**Text/Reference books:**

1. **"Tourism: Principles and Practice"** – Chris Cooper, John Fletcher, Alan Fyall, David Gilbert, Stephen Wanhill
2. **"Sustainable Tourism: A Global Perspective"** – Rob Harris, Tony Griffin, Peter Williams
3. **"Tourism Planning: Basics, Concepts, Cases"** – Clare A. Gunn & Turgut Var
4. **"The Geography of Tourism and Recreation: Environment, Place and Space"** – C. Michael Hall & Stephen J. Page
5. **"Tourism Marketing for Cities and Towns: Using Social Media and Branding to Attract Tourists"** – Bonita Kolb
6. **"Tourism and Development: Concepts and Issues"** – Richard Sharpley & David J. Telfer

**Assessment method:** (Continuous Internal Assessment = 50%, Practical Examination = 50%)

<b>School Name- School of Architecture , Planning &amp; Design</b>			
<b>Program- M.U.R.P.</b>			<b>Semester-III</b>
<b>Course Name- ELECTIVE II- DISASTER MANAGEMENT &amp; MITIGATION</b>			
<b>A.Y 2025-26</b>	<b>Course Code- M080225301(B)</b>	<b>Batch- 2024-26</b>	<b>CIE Marks-50</b>
<b>Total Teaching Hours: 45</b>	<b>Total Credits-3</b>		<b>ESE Marks-50</b>
<b>Type of Course- Theory &amp; Practical</b>			<b>Total Marks-100</b>
<b>Course Objectives</b>			
<ol style="list-style-type: none"> <li>1. To understand the interrelationship between environment, development, and disaster management.</li> <li>2. To introduce principles and tools of environmental management and sustainability.</li> <li>3. To equip students with knowledge about disaster classification, risk, vulnerability, and impact assessment.</li> <li>4. To explore methods of disaster preparedness, mitigation, and integration into spatial planning.</li> <li>5. To examine environmental and disaster-related policies and legislation at multiple governance levels.</li> </ol>			
<b>UNITS</b>	<b>Topics</b>		<b>No. of Teaching hours/ (Lecture)</b>
<b>1- Environment, Development, and Resource Use</b>	<ul style="list-style-type: none"> <li>• Interface of environment and development</li> <li>• Resource use, exploitation, and conservation</li> <li>• Human activities and environmental impacts</li> <li>• Environment-economy interaction</li> <li>• Introduction to environmental accounting</li> </ul>		<b>8</b>
<b>2- Fundamentals of Environmental Management</b>	<ul style="list-style-type: none"> <li>• Environmental Impact Assessment (EIA)</li> <li>• Thresholds, indicators, and audits</li> <li>• Environmental certification and life cycle analysis</li> <li>• Environment-property relationship</li> <li>• Environmental policies, acts, and regulations</li> <li>• Environmental education and participatory approaches</li> <li>• Emerging environmental concepts</li> </ul>		<b>10</b>
<b>3- Understanding Disasters – Classification and Impact</b>	<ul style="list-style-type: none"> <li>• Disaster types and classifications</li> <li>• Concepts of hazards, vulnerability, and risk</li> <li>• Human resources in disasters</li> <li>• Environmental and developmental impacts of disaster.</li> </ul>		<b>8</b>

<b>4- Disaster Mitigation and Management</b>	<ul style="list-style-type: none"> <li>• Role of disaster management in sustainable development</li> <li>• Preparedness, prevention, and mitigation strategies</li> <li>• Development-induced displacement</li> <li>• Institutional roles: government and NGOs</li> <li>• Public education, awareness, and community participation</li> <li>• Infrastructure for disaster mitigation</li> <li>• Integration of disaster mitigation in spatial planning</li> </ul>	<b>10</b>
<b>5- Policies, Programmes, and Marketing</b>	<ul style="list-style-type: none"> <li>• Policies and legislation related to environment and disaster management</li> <li>• International, national, and state-level policies and protocols</li> <li>• Institutional mechanisms for policy implementation</li> </ul>	<b>9</b>

**Course Outcomes:**

Upon completion of this course, students will be able to:

**CO 1:** Students will understand the dynamics between development and the environment, assess resource use patterns, and interpret basic concepts of environmental accounting.

**CO 2:** Students will be able to apply environmental assessment tools, understand regulatory frameworks, and engage with community-based environmental management practices.

**CO 3:** Students will be able to classify disasters, analyse their causes and impacts, and understand the key elements of disaster vulnerability and risk.

**CO 4:** Students will gain skills to plan for disaster risk reduction, understand institutional roles, and integrate mitigation strategies into urban and regional planning processes.

**CO 5:** Students will be able to identify, interpret, and evaluate legal and policy instruments governing environmental and disaster management in planning.

**Text/Reference books:**

1. **Goudie, A.** – *The Human Impact on the Natural Environment* – Wiley, 2006.
2. **Odum, E. P. & Barrett, G. W.** – *Fundamentals of Ecology* – Cengage, 2005.
3. **Peter P. Rogers, Kazi F. Jalal, John A. Boyd** – *An Introduction to Sustainable Development* – Prentice Hall of India, 2008.
4. **James K. Lein** – *Integrated Environmental Planning* – Wiley, 2002.
5. **V.H. Dale & Mary R. English** – *Tools to Aid Environmental Decision Making* – Springer.
6. **Frank B. Friedman** – *Practical Guide to Environmental Management* – Environmental Law Institute, 9th Edition.
7. **UNEP** – *Environmental Guidelines for Settlement Planning and Management* – UNCHS, Kenya.
8. **Kapoor, Mukesh** – *Disaster Management* – ICFAI University Press.
9. **Satish Modh** – *Introduction to Disaster Management* – Macmillan Publishers.
10. **Coppola, Damon P.** – *Introduction to International Disaster Management* – Butterworth-Heinemann.
11. **GoI & NDMA Guidelines** – Disaster preparedness and mitigation strategies (available at [ndma.gov.in](http://ndma.gov.in))
12. **Carter, W. Nick** – *Disaster Management: A Disaster Manager's Handbook* – Asian Development Bank.
13. **Sharma, V.K.** – *Disaster Management* – NCDM, New Delhi.
14. **Kulshrestha, S.K.** – *Urban and Regional Planning in India: Handbook for Professional Practice* – Sage, 2012.

**Acts:**

1. **Environment (Protection) Act, 1986**
2. **National Disaster Management Act, 2005**
3. **Land Acquisition Act, 2013 (with amendments)**
4. **EIA Notification, 2006**

<b>School Name- School of Architecture , Planning &amp; Design</b>			
<b>Program- M.U.R.P.</b>			<b>Semester-III</b>
<b>Course Name- PROJECT PLANNING &amp; MANAGEMENT</b>			
<b>A.Y 2025-26</b>	<b>Course Code- M080225302</b>	<b>Batch- 2024-26</b>	<b>CIE Marks-50</b>
<b>Total Teaching Hours: 45</b>	<b>Total Credits-3</b>		<b>ESE Marks-50</b>
<b>Type of Course- Theory</b>			<b>Total Marks-100</b>
<b>Course Objectives</b>			
<ol style="list-style-type: none"> <li>1. Understand the fundamentals of project planning, formulation, and appraisal.</li> <li>2. Evaluate market, technical, financial, and social aspects of projects.</li> <li>3. Apply tools and techniques of project management and monitoring.</li> <li>4. Assess regulatory frameworks and environmental/social considerations.</li> <li>5. Use software tools for project planning and reporting.</li> </ol>			
<b>UNITS</b>	<b>Topics</b>		<b>No. of Teaching hours/ (Lecture)</b>
<b>1- Introduction to Project Planning</b>	<ul style="list-style-type: none"> <li>• Introduction to projects and types</li> <li>• Nature and characteristics of planning projects</li> <li>• Project life cycle stages</li> <li>• Project identification methods</li> </ul>		<b>8</b>
<b>2- Project Formulation and Appraisal – Part 1</b>	<ul style="list-style-type: none"> <li>• Relationship between projects and planning (local, state, national)</li> <li>• Market Analysis: <ul style="list-style-type: none"> <li>○ Macro environment survey</li> <li>○ Survey methods</li> <li>○ Market characterization</li> <li>○ Demand forecasting</li> </ul> </li> </ul>		<b>10</b>
<b>3- Project Formulation and Appraisal – Part 2</b>	<ul style="list-style-type: none"> <li>• Technical analysis: <ul style="list-style-type: none"> <li>○ Scale and magnitude</li> <li>○ Materials, equipment, schedule</li> <li>○ Site and location analysis</li> <li>○ Supporting infrastructure</li> </ul> </li> <li>• Capital Budgeting: <ul style="list-style-type: none"> <li>○ Cost estimation and budget</li> <li>○ Social cost-benefit analysis (UNIDO, Merles, ZOPP/GOPP, etc.)</li> </ul> </li> </ul>		<b>9</b>
<b>4- Project Management and Monitoring</b>	<ul style="list-style-type: none"> <li>• Project management fundamentals: <ul style="list-style-type: none"> <li>○ Pitfalls, milestones, activity planning</li> <li>○ Management structure and culture</li> <li>○ Role of project manager</li> </ul> </li> <li>• Project implementation: challenges and success factors</li> <li>• Project control: <ul style="list-style-type: none"> <li>○ Cost, time, and quality</li> </ul> </li> </ul>		<b>9</b>

	<ul style="list-style-type: none"> <li>○ ISI standards</li> <li>● Introduction to <b>Project Management Software</b> (e.g., MS Project)</li> <li>● Project evaluation: <ul style="list-style-type: none"> <li>○ Ex-ante, concurrent, ex-post</li> <li>○ Techniques of monitoring and evaluation</li> </ul> </li> </ul>	
<b>5- Regulatory Frameworks and Environmental/Social Appraisal</b>	<ul style="list-style-type: none"> <li>● <b>National Rehabilitation and Resettlement Policy (2007)</b> – social impact mitigation</li> <li>● <b>National Environmental Policy (2006)</b></li> <li>● <b>Environmental Impact Assessment (EIA)</b></li> <li>● <b>Environmental Management Plan (EMP)</b></li> </ul>	<b>9</b>

**Course Outcomes:**

Upon completion of this course, students will be able to:

**CO 1:** Identify and structure planning-related development projects.

**CO 2:** Formulate and appraise projects using appropriate analytical techniques.

**CO 3:** Manage project implementation with respect to cost, time, and quality.

**CO 4:** Evaluate and monitor projects using modern tools and indicators.

**CO 5 :**Apply relevant legal and environmental regulations during project planning.

**Text/Reference books :**

1. *"Projects: Planning, Analysis, Selection, Financing, Implementation and Review"* by **Prasanna Chandra** is a comprehensive book that covers all aspects of project formulation, appraisal, implementation, and review, making it a key reference for this course.
2. *"Project Management: A Systems Approach to Planning, Scheduling, and Controlling"* by **Harold Kerzner** provides in-depth insights into project management practices, tools, and frameworks relevant to both engineering and planning fields.
3. *"Manual for the Preparation of Industrial Feasibility Studies"* published by **UNIDO (United Nations Industrial Development Organization)** is a globally accepted guide that outlines methodologies for technical, financial, and economic project appraisal.
4. *"Project Management in Practice"* by **R. Pinto** offers practical examples and real-world applications of project management techniques that are useful for students and professionals alike.
5. *"Project Management"* by **S. Ghosh** presents a planning-focused perspective on managing projects in the Indian context, covering key tools and project evaluation techniques.
6. *"Project Management Core Textbook"* by **S. Gopalan** is a useful academic resource that explains concepts, frameworks, and best practices in project lifecycle management.
7. The **National Rehabilitation and Resettlement Policy (2007)** by the Government of India provides the regulatory framework for social impact mitigation in projects involving displacement.
8. The **National Environmental Policy (2006)** and relevant **Environmental Impact Assessment (EIA) guidelines** by the Ministry of Environment, Forest and Climate Change are crucial for understanding legal and environmental appraisal requirements for projects.

**Assessment method:** (Continuous Internal Assessment = 50%, Final Examination = 50%)

<b>School Name- School of Architecture , Planning &amp; Design</b>			
<b>Program- M.U.R.P.</b>			<b>Semester-III</b>
<b>Course Name- RESEARCH METHODOLOGY, SEMINAR &amp; REPORT WRITING</b>			
<b>A.Y 2025-26</b>	<b>Course Code- M080225353</b>	<b>Batch- 2024-26</b>	<b>CIE Marks-50</b>
<b>Total Teaching Hours: 45</b>	<b>Total Credits-3</b>		<b>ESE Marks-50</b>
<b>Type of Course- Seminar</b>			<b>Total Marks-100</b>
<b>Course Objectives</b>			
<ol style="list-style-type: none"> <li>1. To develop an understanding of research principles, processes, and applications in the field of architecture and planning.</li> <li>2. To equip students with skills to define research problems and design appropriate methodologies.</li> <li>3. To provide knowledge about qualitative and quantitative data collection, sampling, and analysis methods.</li> <li>4. To enable students to use basic statistical tools and software for data analysis.</li> <li>5. To guide students in presenting and reporting research findings in a systematic manner.</li> </ol>			
<b>UNITS</b>	<b>Topics</b>		<b>No. of Teaching hours/ (Lecture)</b>
<b>1- Introduction to Research and Research Problems</b>	<ul style="list-style-type: none"> <li>• Objectives of research, types of research (qualitative &amp; quantitative), scientific method, research process.</li> <li>• Research in architecture: types and areas.</li> <li>• Defining a research problem, selecting and refining it, hypothesis development.</li> </ul>		<b>9</b>
<b>2-Research Design and Sampling Techniques</b>	<ul style="list-style-type: none"> <li>• Components of research design: research questions, hypothesis, variables, scope, and significance.</li> <li>• Sampling design: census vs. sample, types of sampling, characteristics of good sample design.</li> <li>• Time schedule and budgeting.</li> </ul>		<b>9</b>
<b>3- Data Collection Techniques</b>	<ul style="list-style-type: none"> <li>• Primary vs. secondary data, methods of data collection in architecture.</li> <li>• Interview techniques, questionnaire design.</li> <li>• Observational techniques: visual tools, activity mapping, cognitive maps, erosion/trace studies.</li> </ul>		<b>9</b>
<b>4- Data Analysis and Introduction to Statistics</b>	<ul style="list-style-type: none"> <li>• Types of data (qualitative and quantitative), content analysis.</li> <li>• Statistical tools: frequencies, percentages, mean, median, mode, chi-square test, correlation.</li> <li>• Use of MS Excel for statistical data processing and analysis.</li> </ul>		<b>9</b>
<b>5- Referencing</b>	<ul style="list-style-type: none"> <li>• Referencing sources: footnotes, endnotes, bibliography formatting.</li> </ul>		<b>9</b>

<b>and Report Writing</b>	<ul style="list-style-type: none"> <li>• Report structure and technical writing (language, formatting, referencing).</li> <li>• Data presentation: graphs, charts, maps, architectural drawings.</li> </ul>	
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**Course Outcomes:**  
Upon completion of this course, students will be able to:

**CO 1:** Define and formulate research problems and hypotheses relevant to planning.  
**CO 2:** Design a comprehensive research framework with appropriate data collection and sampling methods.  
**CO 3:** Apply qualitative and quantitative research techniques effectively.  
**CO 4:** Use basic statistical tools for data interpretation and analysis.  
**CO 5:** Compile and present a well-structured research report with appropriate referencing and formatting.

**Text/Reference books :**

1. *"Research Methodology: Methods and Techniques"* by **C.R. Kothari and Gaurav Garg** offers a comprehensive introduction to the fundamentals of research, including hypothesis development, sampling, and report writing.
2. *"Research Methods for Architecture"* by **Raymond Lucas** is specifically tailored to research within the discipline of architecture, making it ideal for understanding qualitative and visual methods.
3. *"Research Methodology: A Step-by-Step Guide for Beginners"* by **Ranjit Kumar** provides a user-friendly guide to research processes, with practical examples suitable for beginners.
4. *"Researching Architecture"* by **James Benedict Brown** introduces various qualitative tools like mapping, interviews, and observations relevant to spatial and architectural research.
5. *"Designing Social Research"* by **Norman Blaikie** helps students understand social science research approaches, particularly useful for urban planning and architectural contexts.
6. *"Doing Your Research Project"* by **Judith Bell** is a valuable guide on planning and executing research, with emphasis on writing, referencing, and technical presentation.

**Assessment method:** (Continuous Internal Assessment = 50%, Practical Examination = 50%)

<b>School Name- School of Architecture , Planning &amp; Design</b>			
<b>Program- M.U.R.P.</b>			<b>Semester-III</b>
<b>Course Name- GIS and Remote Sensing</b>			
<b>A.Y 2025-26</b>	<b>Course Code- M080224354</b>	<b>Batch- 2024-26</b>	<b>CIE Marks-50</b>
<b>Total Teaching Hours: 60</b>	<b>Total Credits-2</b>		<b>ESE Marks-50</b>
<b>Type of Course- Theory &amp; Practical</b>			<b>Total Marks-100</b>
<b>Course Objectives</b>			
<ol style="list-style-type: none"> <li>1. To introduce the fundamentals of remote sensing, platforms, sensors, and spatial data concepts.</li> <li>2. To familiarize students with image interpretation and classification techniques.</li> <li>3. To develop an understanding of Geographic Information Systems (GIS), data models, and spatial analysis tools.</li> <li>4. To train students in practical GIS applications such as digitization, overlay, buffering, and 3D analysis.</li> <li>5. To create awareness about national initiatives related to spatial data and geospatial policy frameworks.</li> </ol>			
<b>UNITS</b>	<b>Topics</b>		<b>No. of Teaching hours/ (Lecture)</b>
<b>1- Fundamentals of Remote Sensing</b>	<ul style="list-style-type: none"> <li>• Introduction to aerial and satellite remote sensing</li> <li>• Spatial and attribute data concepts</li> <li>• Remote sensing platforms and sensors</li> <li>• Advantages and applications of remote sensing</li> </ul>		<b>12</b>
<b>2- Remote Sensing Data and Image Interpretation</b>	<ul style="list-style-type: none"> <li>• Remote sensing data products and digital formats</li> <li>• Visual image interpretation methods</li> <li>• Digital image classification techniques</li> <li>• Geometric and radiometric corrections</li> </ul>		<b>12</b>
<b>3- Introduction to GIS</b>	<ul style="list-style-type: none"> <li>• GIS and spatial data structures: raster and vector</li> <li>• Environmental data sources and integration into GIS</li> <li>• Introduction to ENVIS</li> <li>• Satellite images as GIS inputs, collection of baseline environmental data.</li> </ul>		<b>12</b>
<b>4- GIS Applications and Analysis</b>	<ul style="list-style-type: none"> <li>• Digitization of features, database creation</li> <li>• GIS analysis: overlay, buffering, spatial queries</li> <li>• Raster vs. vector-based spatial analysis</li> <li>• Introduction to 3D analysis using GIS</li> </ul>		<b>12</b>
<b>5- National Geospatial Initiatives</b>	<ul style="list-style-type: none"> <li>• National Spatial Data Infrastructure (NSDI)</li> <li>• National Urban Information System (NUIS)</li> <li>• National Map Policy: goals, usage, access</li> </ul>		<b>12</b>

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|--|---|--|
|  | <ul style="list-style-type: none"><li>• Integration of policy frameworks with GIS planning.</li></ul> |  |
|--|---|--|

**Course Outcomes:**

Upon completion of this course, students will be able to:

- CO 1:** Explain key concepts of aerial and satellite remote sensing and its advantages.  
**CO 2:** Interpret satellite images using both visual and digital techniques.  
**CO 3:** Understand GIS data structures, tools, and analytical capabilities.  
**CO 4:** Apply GIS in spatial decision-making and environmental planning contexts.  
**CO 5:** Demonstrate knowledge of national geospatial data initiatives like NSDI, NUIS, and the National Map Policy.

**Text/Reference books :**

1. *“Remote Sensing and Image Interpretation”* by **Thomas M. Lillesand, Ralph W. Kiefer, and Jonathan Chipman** provides a comprehensive understanding of remote sensing principles, platforms, and image interpretation techniques.
2. *“Fundamentals of Geographic Information Systems”* by **Michael N. DeMers** offers a clear explanation of GIS concepts, data structures, and applications in planning and environmental studies.
3. *“Introduction to Remote Sensing”* by **James B. Campbell and Randolph H. Wynne** gives detailed insights into the technical and practical aspects of remote sensing.
4. *“Geographic Information Systems and Science”* by **Paul A. Longley, Michael F. Goodchild, David J. Maguire, and David W. Rhind** is a foundational text that covers GIS principles, spatial analysis, and real-world applications.
5. Government documents like the **National Map Policy, NSDI guidelines, and NUIS project reports** are essential to understand the Indian context of geospatial data and infrastructure.

**Assessment method:** (Continuous Internal Assessment = 50%, Practical Examination = 50%)

<b>School Name- School of Architecture , Planning &amp; Design</b>			
<b>Program- M.U.R.P.</b>			<b>Semester-III</b>
<b>Course Name- RURAL &amp; REGIONAL PLANNING</b>			
<b>A.Y 2025-26</b>	<b>Course Code- M080225305</b>	<b>Batch- 2024-26</b>	<b>CIE Marks-50</b>
<b>Total Teaching Hours: 45</b>	<b>Total Credits-3</b>		<b>ESE Marks-50</b>
<b>Type of Course- Theory</b>			<b>Total Marks-100</b>
<b>Course Objectives</b>			
<ol style="list-style-type: none"> <li>1. To understand the institutional and policy framework of decentralized planning in India.</li> <li>2. To analyse methodologies for effective district and village-level planning.</li> <li>3. To evaluate the impact of major rural development schemes and their implementation mechanisms.</li> <li>4. To explore the socio-economic and spatial transformation of rural areas and their planning implications.</li> <li>5. To integrate inclusive, technological, and sustainable approaches into rural and regional planning.</li> </ol>			
<b>UNITS</b>	<b>Topics</b>		<b>No. of Teaching hours/ (Lecture)</b>
<b>1- Decentralized Planning Framework in India</b>	<ul style="list-style-type: none"> <li>• Historical evolution and significance of decentralized planning.</li> <li>• 73rd and 74th Constitutional Amendment Acts and their implications.</li> <li>• Institutional mechanisms: Planning Commission, Finance Commission, District Planning Committees (DPCs).</li> <li>• Participative planning and role of ICT and e-Governance in district-level decision-making.</li> </ul>		<b>9</b>
<b>2- District and Village Level Planning</b>	<ul style="list-style-type: none"> <li>• Data management and visioning at the district level.</li> <li>• Consolidation of rural and urban plans; vertical and horizontal spatial integration.</li> <li>• Guidelines and methodologies for District Development Plans (DDPs) and Village Development Plans (VDPs).</li> <li>• Bridging gaps between sectors; resource mapping and funding strategies.</li> <li>• Use of media and community-based communication for inclusive district development.</li> </ul>		<b>9</b>
<b>3- Rural Development Strategies and Programs (I)</b>	<ul style="list-style-type: none"> <li>• Historical context and evolution of rural development.</li> <li>• National Rural Development programs: PMGSY, IAY, Bharat Nirman, Rajiv Gandhi Technology Missions, Central Rural Sanitation Programme, PURA.</li> <li>• Employment generation programs: MGNREGA, Sampoorna Grameen Rozgar Yojana, National Social Assistance Programme.</li> </ul>		<b>9</b>

	<ul style="list-style-type: none"> <li>• Sectoral development programs: Command Area Development, Drought Prone Area Program, North Eastern Development Program.</li> </ul>	
<b>4- Rural Development Strategies and Programs (II)</b>	<ul style="list-style-type: none"> <li>• Changing socio-economic profile of rural India: land use, asset ownership, consumption, and cropping patterns.</li> <li>• Rural settlement typologies and spatial analysis.</li> <li>• Planning implications of land utilization, peri-urban expansion, tenancy and ownership structures.</li> <li>• ICT tools in rural development: E-panchayats, rural information systems, weather forecasting, and digital infrastructure.</li> </ul>	<b>9</b>
<b>5- Sustainable and Inclusive Rural Development</b>	<ul style="list-style-type: none"> <li>• Inclusive planning: Tribal Sub-Plan, Special Component Plan for weaker sections.</li> <li>• Planning for resilience: disaster minimization, climate adaptation in rural areas.</li> <li>• Technology and alternative development models in rural housing, energy, and water.</li> <li>• Monitoring, evaluation, and capacity building strategies for rural governance.</li> <li>• Future trends: convergence of rural and regional planning with national priorities (Digital India, Smart Villages, Sustainable Development Goals).</li> </ul>	<b>9</b>
<p><b>Course Outcomes:</b> Upon completion of this course, students will be able to:</p> <p><b>CO 1:</b> Interpret the constitutional and institutional setup for decentralized planning in India.  <b>CO 2 :</b> Prepare and evaluate district and village development plans using integrated planning methods.  <b>CO 3:</b> Assess and compare major rural development programs and their effectiveness.  <b>CO 4:</b> Analyse rural spatial patterns, land use dynamics, and socio-economic trends to guide planning decisions.  <b>CO 5:</b> Propose innovative and inclusive planning strategies using digital tools and sustainable practices.</p>		

**Text/Reference books :**

1. *"Rural Development: Principles, Policies and Management"* by Katar Singh provides foundational knowledge on rural development concepts and strategies.
2. *"Decentralised Planning and Participatory Rural Development"* by N.G. Jayal discusses participatory planning frameworks relevant to Indian contexts.
3. *"Rural Planning in Developing Countries"* by Dube and Pandey offers insights into spatial and sectoral planning in rural regions.
4. *"Integrated Rural Development"* by R.K. Mahajan reviews national-level rural development programs and implementation challenges.
5. *"Handbook of Regional and Urban Economics"* by J. Vernon Henderson and Jacques-François. This includes theories and case studies that relate to rural-urban dynamics and regional planning.

6. Government reports such as "*Guidelines for Preparation of District Plans (Planning Commission, GoI)*", "*73rd & 74th Constitutional Amendment Acts*", and "*MGNREGA Operational Guidelines*" are essential legal and procedural documents.
7. The **National Rehabilitation and Resettlement Policy (2007)** by the Government of India provides the regulatory framework for social impact mitigation in projects involving displacement.
8. The **National Environmental Policy (2006)** and relevant **Environmental Impact Assessment (EIA) guidelines** by the Ministry of Environment, Forest and Climate Change are crucial for understanding legal and environmental appraisal requirements for projects.

**Assessment method:** (Continuous Internal Assessment = 50%, Final Examination = 50%)

<b>School Name- School of Architecture , Planning &amp; Design</b>			
<b>Program- M.U.R.P.</b>			<b>Semester-III</b>
<b>Course Name- PLANNING STUDIO WORK-III &amp; THESIS I</b>			
<b>A.Y 2025-26</b>	<b>Course Code- M080225356</b>	<b>Batch- 2024-26</b>	<b>CIE Marks-350</b>
<b>Total Teaching Hours: 240</b>	<b>Total Credits-8</b>		<b>ESE Marks-150</b>
<b>Type of Course- Studio &amp; Practical</b>			<b>Total Marks-500</b>
<b>Course Objectives</b>			
<ol style="list-style-type: none"> <li>1. To equip students with practical knowledge of spatial data infrastructure (SDI) and its relevance in planning and decision-making.</li> <li>2. To enable students to analyze and apply SDI for urban and regional planning through real-time data applications.</li> <li>3. To expose students to real-world regional planning complexities through live case studies.</li> <li>4. To develop the ability to identify and research planning problems with academic and societal relevance.</li> <li>5. To ensure students are capable of producing research that is suitable for national/international publication and stakeholder presentation.</li> </ol>			
<b>UNITS</b>	<b>Topics</b>		<b>No. of Teaching hours/ (Lecture)</b>
<b>1- Fundamentals of Spatial Data Infrastructure (SDI)</b>	<ul style="list-style-type: none"> <li>• Concepts and contents of SDI.</li> <li>• Hierarchies: Global, national, regional, and local.</li> <li>• Open Geospatial Consortium (OGC), ISO standards (TC211), and spatial data mining.</li> </ul>		<b>48</b>
<b>2- Applications of SDI from Global to Local</b>	<ul style="list-style-type: none"> <li>• National SDI initiatives: NSDI, NRDMS.</li> <li>• State-level portals: Karnataka, Kerala, NCT Delhi.</li> <li>• Case studies: Bhoomi, Gujarat tax systems, coastal planning applications.</li> </ul>		<b>48</b>
<b>3- Decision Support through SDI in Planning</b>	<ul style="list-style-type: none"> <li>• (Interoperability and ontology mapping.</li> <li>• Use in population, natural resources, water, transport, agriculture, disaster management.</li> <li>• 3D mapping and geo-visualization for planning.</li> </ul>		<b>48</b>
<b>4- Technologies and Real-time Applications in SDI</b>	<ul style="list-style-type: none"> <li>• Real-time monitoring (e.g., landslides, slum formation).</li> <li>• Web-based models in decentralization and urban/rural planning.</li> <li>• Flash flood systems, satellite data usage.</li> </ul>		<b>48</b>
<b>5- District/Regional Planning +</b>	<ul style="list-style-type: none"> <li>• Live case study-based district/regional planning.</li> <li>• Multi-sector, multi-scale interface planning.</li> </ul>		<b>48</b>

<b>Thesis Framework</b>	<ul style="list-style-type: none"> <li>• Topic selection, literature review, site analysis, case studies for thesis.</li> </ul>	
<p><b>Course Outcomes:</b>  Upon successful completion of the course, students will be able to:  <b>CO1:</b> Understand and apply the structure, content, and standards of SDI for multi-scale planning.  <b>CO2:</b> Assess and compare global, national, and local SDI initiatives through case-based learning.  <b>CO3:</b> Utilize geospatial data, real-time technologies, and SDSS (Decision Support Systems) in various sectors of planning.  <b>CO4:</b> Demonstrate skills in regional planning exercises, integrating theoretical and practical knowledge.  <b>CO5:</b> Identify a research problem, conduct literature review, site analysis, and prepare for thesis and publication in peer-reviewed forums.</p>		

**Text/Reference books:**

1. *“Fundamentals of Geographic Information Systems”* by Michael N. DeMers
2. *“Geographic Information Systems and Science”* by Paul A. Longley et al. for understanding the theoretical concepts and technical aspects of GIS and SDI.
3. *“Remote Sensing and Image Interpretation”* by Lillesand, Kiefer, and Chipman is highly recommended for satellite data analysis.
4. *“Planning Support Systems in Practice”* by Stan Geertman and John Stillwell provides a practical perspective on decision-making in planning.
5. For district-level planning and SDI applications in India, publications by ISRO, NSDI, and reports from Bhoomi and NRDMS portals are essential.

**Assessment method:** (Continuous Internal Assessment = 50%, Final Examination = 50%)

<b>School Name- School of Architecture , Planning &amp; Design</b>			
<b>Program- M.U.R.P.</b>			<b>Semester-III</b>
<b>Course Name- PROFESSIONAL TRAINING</b>			
<b>A.Y 2025-26</b>	<b>Course Code- M080224357</b>	<b>Batch- 2024-26</b>	<b>CIE Marks- 50</b>
<b>Total Teaching Hours: -</b>	<b>Total Credits- 2</b>		<b>ESE Marks-50</b>
<b>Type of Course- Practical Training</b>			<b>Total Marks- 100</b>
<b>Course Objectives</b>			
<ol style="list-style-type: none"> <li>1. To expose students to the real-world applications of urban and regional planning concepts through practical training in professional settings.</li> <li>2. To enhance the understanding of urban planning specializations such as infrastructure, environmental, transportation, and housing planning through hands-on experience.</li> <li>3. To develop skills in data analysis, project formulation, policy framing, and other essential aspects of urban planning and management.</li> <li>4. To foster professional growth by enabling students to engage in multi-disciplinary work and contributing meaningfully to live projects in real-world organizations.</li> <li>5. To evaluate the student's ability to work independently and effectively in a professional environment, culminating in a performance report and detailed reflection of the training experience.</li> </ol>			
<b>UNITS</b>	<b>Topics</b>		<b>No. of weeks</b>
	<p>The student is expected to work in any project related to urban planning or any specialization such as infrastructure planning, environmental planning, transportation planning, housing etc. Individual contribution of the student in the project handled, in any of the stages of work undertaken (data analyses, project formulation, policy framing etc. ) is expected</p> <p>Each student shall undergo professional training for a minimum 4 weeks in an establishment approved by the coordinator.</p> <p>Each student is required to submit a performance report from the place of training and a detailed report of the works undertaken by him/her.</p> <p>The content of the report should contain a brief introduction of the organization, list of work undertaken, description of individual projects worked upon, role of the student supported by verification by the organization.</p>		<b>Minimum 4 weeks</b>

	<p><b>Note-</b>  The student is required to undertake summer training after 2 semesters of course study, in any government, private or research organization undertaking regional and urban planning works. The practical training shall be for a minimum period of 4 weeks. The practical training will commence during the summer break between second and third semester. However, if due to certain unavoidable issues, any student is unable to take the training after the 2<sup>nd</sup> semester, he/she shall take the training after the completion of the 4<sup>th</sup> Semester.</p> <p>If the student as per the clause mentioned above is unable to take the training after the completion of the 2<sup>nd</sup> Semester, his/her 3<sup>rd</sup> semester results shall reflect carryover. Once the student has completed the training after the 4<sup>th</sup> Semester all his/her results shall be declared. The results shall reflect if the student has completed training successfully and satisfactorily or not after assessing the performance through Viva. In the Marksheet it will be mentioned: <b>“Training Completed, Satisfactory Performance”</b>.</p>	
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<p><b>Course Outcomes:</b>  Upon successful completion of the course, students will be able to:</p> <p><b>CO 1:</b> Students will gain practical knowledge in urban planning projects, understanding the various stages of project development, from data collection and analysis to policy formulation.</p> <p><b>CO 2:</b> Students will be able to apply the theories, methodologies, and tools they have learned in the classroom to real-world planning problems and projects.</p> <p><b>CO 3:</b> Students will develop effective communication skills, both written and verbal, as they prepare detailed reports and presentations of their contributions and experiences during the training.</p> <p><b>CO 4:</b> Students will demonstrate the ability to engage with professionals, contributing to collaborative planning efforts and learning from mentors and supervisors.</p> <p><b>CO 5:</b> Students will produce a comprehensive training report, summarizing the tasks undertaken, their individual contributions, and the impact of their work, including verification from the hosting organization.</p>
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**Assessment method:** (Continuous Internal Assessment = 50%, Final Examination = 50%)

**SEMESTER IV**

<b>School Name- School of Architecture , Planning &amp; Design</b>			
<b>Program- M.U.R.P.</b>			<b>Semester-IV</b>
<b>Course Name- ELECTIVE III- POLITCS &amp; PUBLIC PLANNING</b>			
<b>A.Y 2025-26</b>	<b>Course Code- M080225401(A)</b>	<b>Batch- 2024-26</b>	<b>CIE Marks-50</b>
<b>Total Teaching Hours: 45</b>		<b>Total Credits-3</b>	<b>ESE Marks-50</b>
<b>Type of Course- Theory &amp; Practical</b>			<b>Total Marks-100</b>
<b>1. The State as a Manager of Resources and Politics of Provision</b>	<ul style="list-style-type: none"> <li>• Political culture of Indian State; federal structure and local political economy.</li> <li>• Role of bureaucracy, civil society, and the politics of land, housing, and infrastructure</li> <li>• .Regulatory, reforming, and rent-seeking state models.</li> <li>• Decision-making in planning, pricing, and provision of services.</li> <li>• Case studies: Land conversion and FSI changes in India, China, USA, South Korea.</li> </ul>		<b>9</b>
<b>2.Nature and Making of Public Policy</b>	<ul style="list-style-type: none"> <li>• Understanding public problems and policy as a planning issue.</li> <li>• Six-step policy analysis process.</li> <li>• Policy agenda setting, influencing actors, success and failure factors.</li> <li>• Theoretical models and institutional frameworks.</li> <li>• Limitations in public/private sector decision-making.</li> </ul>		<b>9</b>
<b>3- Public Policy Analysis and Strategic Planning</b>	<ul style="list-style-type: none"> <li>• Overview of policy process models: Multi-stream, life-course, and implementation analysis.</li> <li>• Case studies of strategic integration in planning.</li> <li>• Differences in strategic planning in public vs. private sectors.</li> <li>• Goal setting, leadership, and crisis management strategies.</li> <li>• Strategic evaluation tools in planning and governance.</li> </ul>		<b>9</b>
<b>4.Public Policy Management and Delivery</b>	<ul style="list-style-type: none"> <li><input type="checkbox"/> ICT and digital transformation in public service: e-governance, e-panchayats, e-markets.</li> <li><input type="checkbox"/> Transparency, accountability, and participatory governance.</li> <li><input type="checkbox"/> Market-based and multi-provider public service arrangements.</li> <li><input type="checkbox"/> Benchmarks in land, health, environment, and water policies.</li> <li><input type="checkbox"/> Commitments to MDGs/SDGs and their implementation across levels.</li> </ul>		<b>9</b>

<b>5.Comparative Case Studies and Global Practices</b>	<input type="checkbox"/> Comparative review of planning policies from India and abroad. <input type="checkbox"/> Case studies on rural-urban land conversion and FSI revisions. <input type="checkbox"/> Lessons from international governance models. <input type="checkbox"/> Policy diffusion and contextual adaptation in urban planning. <input type="checkbox"/> Global to local translation of planning commitments.	<b>9</b>
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**Course Outcomes:**

Upon completion of this course, students will be able to:

1. CO1: Understand the political and institutional roles of the state and bureaucracy in the planning process.
2. CO2: Analyse the nature, making, and evaluation of public policy using analytical frameworks.
3. CO3: Apply strategic planning tools for designing and managing urban and regional policy.
4. CO4: Evaluate the impact of ICT, e-governance, and participatory tools on public service delivery.
5. CO5: Compare international case studies to learn from diverse planning and policy approaches.

**Text/Reference books:**

- Dunn, W.N. *Public Policy Analysis: An Introduction*.
- Peters, B.G. *The Politics of Bureaucracy*.
- Sabatier, P.A. *Theories of the Policy Process*.
- UN-Habitat. *Urban Governance and Legislation*.
- Daniel T. *Policy Process in the Modern State*.
- Relevant case studies and government policy reports (India, USA, China, South Korea).

**Assessment method:** (Continuous Internal Assessment = 50%, Practical Examination = 50%)

<b>School Name- School of Architecture , Planning &amp; Design</b>			
<b>Program- M.U.R.P.</b>			<b>Semester-IV</b>
<b>Course Name- ELECTIVE III- FINANCING DEVELOPMENT</b>			
<b>A.Y 2025-26</b>	<b>Course Code- M080225401(B)</b>	<b>Batch- 2024-26</b>	<b>CIE Marks-50</b>
<b>Total Teaching Hours: 45</b>	<b>Total Credits-3</b>		<b>ESE Marks-50</b>
<b>Type of Course- Theory &amp; Practical</b>			<b>Total Marks-100</b>
<b>Course Objectives</b>			
<ol style="list-style-type: none"> <li>1. To understand the structure and functioning of infrastructure financing mechanisms in India.</li> <li>2. To analyse the role and impact of Finance Commissions on local development funding.</li> <li>3. To explore reforms in local financial management systems to improve efficiency and revenue generation.</li> <li>4. To examine the structure, design, and outcomes of PPPs in infrastructure delivery.</li> <li>5. To assess the equity and sustainability aspects of financing and PPP models in urban and rural development.</li> </ol>			
<b>UNITS</b>	<b>Topics</b>		<b>No. of Teaching hours/ (Lecture)</b>
<b>1- Introduction to Infrastructure Financing</b>	<ul style="list-style-type: none"> <li>• Overview of infrastructure financing in India.</li> <li>• Fiscal transfers under the Constitution and the role of the 73rd and 74th Constitutional Amendments.</li> <li>• Institutional frameworks for funding (Central and State Finance Commissions).</li> <li>• Overview of funding sources: own-source revenue, equity, debt, refinancing, sell-out, co-financing, and venture capital.</li> </ul>		<b>9</b>
<b>2- Role and Impact of Finance Commissions</b>	<ul style="list-style-type: none"> <li>• Distribution of financial powers and revenues between the Union and States.</li> <li>• Historical overview and role of Central Finance Commissions (1st to 13th).</li> <li>• Key deviations in the 13th CFC and their impact on rural and urban infrastructure.</li> <li>• Importance of service-level benchmarks for fund transfers.</li> <li>• State Finance Commissions: mandates, fund allocations, challenges, and reforms.</li> </ul>		<b>9</b>
<b>3-Local-Level Financial Reforms</b>	<ul style="list-style-type: none"> <li>• Property tax reforms and mechanisms for enhancing municipal revenue.</li> <li>• Introduction to accrual-based accounting, municipal accounting standards.</li> <li>• Own-source financing strategies for local bodies.</li> <li>• Credit rating mechanisms for urban local bodies.</li> </ul>		<b>9</b>

	<ul style="list-style-type: none"> <li>• Pooled financing mechanisms and regulatory frameworks.</li> </ul>	
<b>4- Public-Private Partnerships (PPP) – Concepts and Practice</b>	<ul style="list-style-type: none"> <li>• Principles and types of PPPs.</li> <li>• Structuring PPP contracts: legal frameworks, conditionalities, and risk sharing.</li> <li>• PPP project lifecycle: design, execution, monitoring.</li> <li>• Evaluation of case studies across urban sectors – successes and failures.</li> <li>• Legal and institutional frameworks supporting PPPs.</li> </ul>	<b>9</b>
<b>5- PPP Management and Inclusive Development</b>	<ul style="list-style-type: none"> <li>• Cost-benefit analysis in PPPs.</li> <li>• Responsibilities in public-private agreements.</li> <li>• Ensuring social equity and inclusive service delivery through PPPs.</li> <li>• Role of PPPs in delivering services to the poor and underserved.</li> <li>• Integration of PPPs with broader urban policy and governance reforms.</li> </ul>	<b>9</b>

**Course Outcomes:**

Upon completion of this course, students will be able to:

**CO1:** Explain constitutional provisions and funding methods relevant to infrastructure finance in India.

**CO2:** Analyse the role and evolution of Finance Commissions and their implications on inter-governmental financial transfers.

**CO3:** Evaluate local-level financial reforms such as property tax and pooled financing for urban infrastructure.

**CO4:** Understand the legal, structural, and practical aspects of PPP models through case studies.

**CO5:** Assess the effectiveness and inclusiveness of PPPs and fiscal tools in addressing infrastructure needs.

**Text/Reference books:**

1. *“Public Finance”* by H.L. Bhatia provides a comprehensive understanding of fiscal policies, taxation, and public expenditure systems in India.
2. *“Urban Infrastructure: Finance and Management”* by R.N. Joshi offers insights into funding mechanisms and reforms for urban infrastructure.
3. *“Public Private Partnership in Infrastructure: Perspectives, Issues, and Practices”* by AK Mittal discusses PPP models, their execution, and legal aspects in the Indian context.
4. *“Municipal Finance in India”* by Pethe Abhay focuses on the financial challenges of urban local bodies and reform strategies.
5. *Reports of Central and State Finance Commissions* provide official insights into fiscal devolution, recommendations, and benchmarks guiding infrastructure financing and planning.

**Assessment method:** (Continuous Internal Assessment = 50%, Practical Examination = 50%)

<b>School Name- School of Architecture , Planning &amp; Design</b>			
<b>Program- M.U.R.P.</b>			<b>Semester-IV</b>
<b>Course Name- LEGAL ISSUES IN PLANNING</b>			
<b>A.Y 2025-26</b>	<b>Course Code- M080225402</b>	<b>Batch- 2024-26</b>	<b>CIE Marks-50</b>
<b>Total Teaching Hours: 30</b>	<b>Total Credits-2</b>		<b>ESE Marks-50</b>
<b>Type of Course- Theory</b>			<b>Total Marks-100</b>
<b>Course Objectives</b>			
<ol style="list-style-type: none"> <li>1. To provide a foundational understanding of laws relevant to urban and regional planning.</li> <li>2. To analyse major acts and policies influencing land development, acquisition, and environment.</li> <li>3. To evaluate legal instruments and control mechanisms in urban land use planning.</li> <li>4. To understand professional roles, consultancy practices, and ethics in planning.</li> <li>5. To appreciate institutional and governance frameworks influencing planning decisions.</li> </ol>			
<b>UNITS</b>	<b>Topics</b>		<b>No. of Teaching hours/ (Lecture)</b>
<b>1- Foundations of Law and Evolution of Planning Legislation</b>	<ul style="list-style-type: none"> <li>• Sources of law: custom, legislation, precedent.</li> <li>• Legal terminology: legislation, ordinance, bill, act, regulation, bye-laws.</li> <li>• Importance of law in urban and regional planning.</li> <li>• Eminent domain and police powers.</li> <li>• Legislative powers of Local, State, and Central governments in planning.</li> <li>• Overview of legal instruments: Town and Country Planning Act, Improvement Trust Act, Development Authorities Act.</li> <li>• Role of legal provisions in preparation and implementation of regional plans, master plans, and town planning schemes.</li> <li>• Concepts of arbitration, betterment levy, development charges, and public participation.</li> </ul>		<b>6</b>
<b>2- Policy Framework and Special Planning Acts</b>	<ul style="list-style-type: none"> <li>• National Environmental Policy Act and Environmental Protection Act.</li> <li>• Land Acquisition Act: procedure, compensation, and resettlement.</li> <li>• Acts and policies relating to: <ul style="list-style-type: none"> <li>○ Special Economic Zones (SEZs),</li> <li>○ Disaster management,</li> <li>○ Transfer of Development Rights (TDR),</li> <li>○ Accommodation Reservation (AR),</li> <li>○ Air rights and other innovative mechanisms.</li> </ul> </li> </ul>		<b>6</b>
<b>3- Habitat, Conservation,</b>	<ul style="list-style-type: none"> <li>• Laws related to slum clearance, environment, housing, and traffic management.</li> </ul>		<b>6</b>

<b>and Land Development Control</b>	<ul style="list-style-type: none"> <li>• Laws for protection of heritage, monuments, and archaeological sites.</li> <li>• Objectives and evaluation of legal tools for land use planning: <ul style="list-style-type: none"> <li>○ Zoning,</li> <li>○ Sub-division regulations,</li> <li>○ Building regulations,</li> <li>○ Development control regulations (DCRs),</li> <li>○ Land conversion and peri-urban development control.</li> </ul> </li> </ul>	
<b>4- Professional Practice in Planning</b>	<ul style="list-style-type: none"> <li>• Objectives and roles of professional planning institutes (e.g., ITPI, ISOCARP).</li> <li>• Ethical guidelines, code of conduct, and scale of professional charges.</li> <li>• Planning consultancy practice: <ul style="list-style-type: none"> <li>○ Expression of Interest (EOI),</li> <li>○ Request for Proposal (RFP),</li> <li>○ Consultancy contracts and agreements.</li> </ul> </li> <li>• Role of interdisciplinary teams and collaborative planning.</li> <li>• Decision-making frameworks and stakeholder management.</li> </ul>	<b>6</b>
<b>5- Governance, Institutional Mechanisms, and Contemporary Practice</b>	<ul style="list-style-type: none"> <li>• Role of governance in urban planning implementation.</li> <li>• Urban local bodies (ULBs) and decentralization through 74th Amendment.</li> <li>• Participatory governance and legal enablers of public involvement.</li> <li>• Contract management and execution of urban projects.</li> <li>• International agreements (e.g., GATT, WTO) and implications for Indian planning practice.</li> <li>• Office management, documentation, reporting, and professional administration.</li> </ul>	<b>6</b>

**Course Outcomes:**

Upon completion of this course, students will be able to:

- CO 1:** Interpret key legal frameworks relevant to urban and regional planning in India.
- CO 2:** Assess the impact of land, environmental, and special planning laws on development.
- CO 3:** Apply legal tools in formulating master plans, town planning schemes, and development controls.
- CO 4:** Understand and practice professional planning ethics, consultancy procedures, and interdisciplinary collaboration.
- CO 5:** Evaluate the role of institutions and governance mechanisms in successful plan implementation.

**Text/Reference books :**

1. *"Urban and Regional Planning in India"* by K.P. Yadav offers an in-depth overview of legal and institutional frameworks applicable to urban planning.
2. *"Law and Urban Change"* by P.S.N. Rao provides comprehensive insight into statutory planning processes and related legislation in India.
3. *"The Constitution of India"* by P.M. Bakshi is an essential resource to understand the legislative context and decentralization provisions relevant to planning.

4. *"Town and Country Planning Acts: A Reader" by B.S. Ranga Rao helps explore the statutory tools and their implementation in spatial planning.*
5. *"Planning Legislation and Professional Practice" by N.K. Jaiswal is useful for understanding consultancy practices, ethics, and the role of professionals in planning.*
6. *Government of India guidelines including the Land Acquisition Act (2013), Environmental Protection Act (1986), and Model Town and Country Planning Act (1960) serve as primary references for planning law and governance in India.*

**Assessment method:** (Continuous Internal Assessment = 50%, Final Examination = 50%)

<b>School Name- School of Architecture , Planning &amp; Design</b>			
<b>Program- M.U.R.P.</b>			<b>Semester-IV</b>
<b>Course Name- THESIS II</b>			
<b>A.Y 2025-26</b>	<b>Course Code- M080225453</b>	<b>Batch- 2024-26</b>	<b>CIE Marks-400</b>
<b>Total Teaching Hours: 480</b>	<b>Total Credits- 16</b>		<b>ESE Marks-400</b>
<b>Type of Course- Studio &amp; Practical</b>			<b>Total Marks-800</b>
<b>Course Objectives</b>			
<ol style="list-style-type: none"> <li>1. To guide students through an independent research process rooted in planning theory and real-world relevance.</li> <li>2. To develop critical thinking, data analysis, and technical skills through systematic exploration of urban or rural planning challenges.</li> <li>3. To train students in structuring and presenting an academic document in accordance with research ethics and scholarly standards.</li> <li>4. To ensure students explore cross-sectoral and interdisciplinary linkages to create practical and policy-relevant planning outcomes.</li> <li>5. To encourage original work that leads to academic dissemination in the form of journal or conference publications.</li> </ol>			
<b>UNITS</b>	<b>Topics</b>		<b>No. of weeks</b>
	<p><b>THESIS</b> Students are expected to write a thesis on the topic selected by them with the constant guidance from faculty members; students are expected to obtain the skills in understanding the various aspects of regional planning and apply them in their thesis work. Quality work in the thesis is expected, leading to get the results published in one international conference/ Journal of international repute.</p> <p><b>There shall be FOUR stagewise juries/presentations for each student in order to assess to final submission.</b></p> <p><b>STAGE 1:</b> Topic Finalization &amp; Research Framework.  <b>STAGE 2:</b> Site Justification &amp; Preliminary Data Analysis.  <b>STAGE 3:</b> Analysis &amp; Draft Proposals.  <b>STAGE 4:</b> Pre-Final Submission &amp; Final Review</p>		<b>15 weeks</b>

	<p><b>COMPOSITION OF JURY PANEL FOR INTERNAL EVALUATION OF THESIS AT EVERY STAGE</b></p> <p>- There shall be one or more jury panels. Each panel shall consist of the following -</p> <p>Senior faculty member, an architect/planner, (Professor/Asso. Professor) of the Department of the parent institution / university.</p> <p>Junior faculty member, an architect/planner, (Asst. Professor) of the Department of the parent institution / university.</p> <p>Thesis Guide(s).</p> <p><b>COMPOSITION OF JURY PANEL FOR FINAL (EXTERNAL) EVALUATION / EXAMINATION OF THESIS.</b></p> <p>- There shall be one or more jury panels. Each panel shall consist of the following -</p> <p>An Architect/Planner Director / Principal / Head of the Department / Professor of the parent institution / university.</p> <p>An Architect/Planner Director / Principal / Head of the Department / Professor of other than the parent institution / university.</p> <p>An eminent architect/planner from the profession with at least 15 years of field experience.</p> <p>Thesis Guide(s) as member, but not part of evaluation.</p> <p>Further the Thesis Coordinator (s) will act as facilitator.</p>	
<p><b>Course Outcomes:</b></p> <p>Upon successful completion of the course, students will be able to:</p> <p><b>CO1:</b> Students will demonstrate the ability to identify, analyse, and define a planning problem or opportunity.</p> <p><b>CO2:</b> Students will conduct rigorous primary and/or secondary data collection, analysis, and interpretation relevant to their chosen topic.</p> <p><b>CO3:</b> Students will produce a technically sound and methodologically appropriate thesis document.</p> <p><b>CO4:</b> Students will apply spatial and statistical tools (GIS, remote sensing, modelling, etc.) to support research findings and planning proposals.</p> <p><b>CO5:</b> Students will effectively present their thesis work to academic and professional audiences, incorporating feedback into their final output.</p>		

**Assessment method:** (Continuous Internal Assessment = 50%, Final Examination = 50%)

Viva voce:400 Marks based on studio assignments.