



Shri Vaishnav Vidyapeeth Vishwavidyalaya
Shri Vaishnav Institute of Planning
Choice Based Credit System (CBCS) Scheme in the light of NEP-2020
M.PLAN – URBAN PLANNING (2026)

M.PLAN
(URBAN PLANNING)

I YEAR – I SEM



MPLN101: PLANNING STUDIO – I

COURSE CODE	COURSE CORE	COURSE TYPOLOGY	COURSE NAME	TEACHING & EVALUATION SCHEME						L	T	S	CREDITS
				Marks	THEORY			STUDIO					
					Two Term Exam	Teachers Assessment*	End Sem University Exam	Internal Assessment	External Viva				
MPLN 101	PC	STUDIO	PLANNING STUDIO I	Max	0	0	0	200	200	0	0	8	8
				Min	0	0		100	100				

Legends: L - Lecture; T - Tutorial/Teacher Guided Student Activity; S - Studio; C - Credit; *Teacher Assessment shall be based following components: Quiz/Assignment/ Project/Participation in Class, given that no component shall exceed more than 10 marks.

COURSE INFORMATION

Prerequisites : Basic understanding of urban settlements, maps and planning concepts.
 Mode of Delivery : Studio-based learning, field surveys, group work, presentations and report preparation

COURSE EDUCATIONAL OBJECTIVES (CEOs):

S. No.	CEO	Bloom's Level	Domain
CEO1	To understand the application of planning concepts learnt in theory subjects to planning practice.	Understand (L2)	Cognitive
CEO2	To develop understanding of the comprehensive, interrelated and long-term nature of planning through field-based learning.	Understand (L2)	Cognitive
CEO3	To understand the role of urban planning components and their interactions in area level planning.	Analyse (L4)	Cognitive
CEO4	To develop the ability to analyze planning issues and formulate planning solutions through collaborative studio exercises.	Create (L6)	Cognitive

COURSE ALIGNMENT WITH UNSDG

This course contributes to SDG 11: Sustainable Cities and Communities, SDG 6: Clean Water and Sanitation, SDG 9: Industry, Innovation and Infrastructure and SDG 13: Climate Action by promoting sustainable neighborhood planning, infrastructure assessment, environmental sensitivity, inclusive urban development and evidence-based planning proposals.

COURSE OUTCOMES

CO	Outcome	Bloom	SDG
CO1	Working knowledge of how actual planning projects are functioning.	Understand (L2)	SDG 11
CO2	To develop data collection and analytical skills through field surveys and analysis for the purposes of plan preparation.	Analyse (L4)	SDG 9, SDG 11
CO3	Collaborative development of planning solutions to real situations confronted by communities.	Create (L6)	SDG 11, SDG 13

COURSE FOCUS

- Area appreciation and planning analysis
- Survey techniques and data collection
- Spatial analysis and interpretation
- Problem identification and solution formulation
- Community-based planning approaches
- Technical report preparation and presentation skills

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COURSE OVERVIEW

This studio introduces students to the practical dimensions of urban planning through area-based investigations and planning exercises. The course enables students to understand the interrelationships between land use, transportation, infrastructure, environment and socio-economic characteristics within an urban area. Through field surveys, documentation, analysis and proposal preparation, students develop the ability to identify planning issues and formulate context-sensitive planning interventions. The studio encourages collaborative learning and application of planning concepts in real-life situations. Area appreciation studies, field reconnaissance surveys, stakeholder consultations, thematic mapping, and preparation of context-specific planning proposals based on real urban issues will provide experiential and practice-oriented learning opportunities to students.

TEACHING PEDAGOGY

Code	Method
T1	Studio-based learning and guided exercises
T2	Field visits and primary surveys
T3	Group discussions and collaborative planning activities
T4	Presentations, reviews and viva voce

ASSESSMENT TOOLS

Code	Tool
AT1-1	Literature Review Assignment
AT1-2	Area Documentation and Survey Exercise
AT1-3	Mapping and Analytical Exercises
AT1-4	Studio Presentation
AT1-5	Planning Proposal Report
AT1-6	Viva Voce

COURSE CONTENTS

MODULE I – URBAN PLANNING REVIEW

Unit	Syllabus: Topic	Subtopic	Teaching Hours	Assessment Tools
I	Literature Review	- Local Area Plans - Master Plans and Regional Plans - Standards Norms and Guidelines - Relevant Statutes	30 hrs	AT1-, AT1-4

MODULE II – AREA PLANNING STUDIO / AREA APPRECIATION

The area planning studio introduces students to core urban planning components (like land use, transport, infrastructure and services) and their interactions through the lens of an area level plan; a rational outcome of a process that carefully balances the needs of people, conflicting interests, improving public systems, financial constraints and goals of sustainability and social equity.

The aim of this exercise is to enable the students to understand and contextualize the location of the area in relation to the city, zone and area in which the particular place is situated.

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This is done in relation to the socio-economic, spatial and cultural characteristics of that city, zone, location, etc. The main purpose is to make the students appreciate the locational attributes of land parcels for future development in a city. Due to the size of the area, this exercise is done in groups of students being assigned to a particular area (small scale), or wards/combination of wards or zones of the city.

The following steps at area level should be identified:

Unit	Topic	Subtopics	Teaching Hours	Assessment Tools
2	Area Documentation and Survey	- Review of the Master Plan / Zonal / Area plan in relation to the selected areas. - Area Documentation and Survey - Delineation of study area and base map preparation. - Physical characteristics: topography, land use, built form, circulation network, open spaces. - Socio-economic characteristics: population, activities, community facilities, and livelihoods. - Perception of areas in terms of legal / illegal / authorized / unauthorized, Slums, Urban Aesthetics. - Extent of formal / informal activities present in the area including their location and conflicts. - General land tenure of the area and land value for different uses. - Major types of transport, type of roads, hierarchy of roads, type of transport modes used. - Amenities: Location of Social and Physical infrastructure and their problems as perceived by local population. Look for specific infrastructure such as Water supply, drainage (water logging areas), waste collection and disposal system, sanitation, etc. - Environmental Issues: Open Spaces – Availability and extent of open space to built-up area, garbage disposal, encroachment (through photographic evidences and sketches). - Land Use, built up, Ground Coverage, Building Heights & Topography - Any other information which is relevant	40 hrs	AT1-1, AT1-2, AT1-3, AT1-4,
	2. Analysis and Interpretation	- Land use and activity pattern analysis. - Accessibility and movement pattern assessment. - Infrastructure assessment, Environment Assessment - Assessment of all relevant Data collected through primary and secondary surveys. - SWOT analysis and identification of key planning issues.	40 hrs	AT1-3, AT1-4

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	3. Issues and Proposals	- Preparation of thematic maps, sketches, and photographic documentation. - Area profile preparation. - Synthesis of observations, inferences and analytical findings. - Compiled issues of all sectors - Strategies and Proposals - Studio presentation - Writing Reports in Prescribed Format with Referencing and Appropriate Maps, Charts, Tables and Figures etc. for the Proposed Plan	30 hrs	AT1-5, AT1-6
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REFERENCE BOOKS / REPORTS

- Bureau of Indian Standards (2005) National Building Code of India, Bureau of Indian Standards, New Delhi
- Delhi Development Authority (2007) Master Plan for Delhi, 2021, DDA, New Delhi.
- Singh V., Ahmed A., Sharma Y. (2020) Unified Building Bye-Laws for Delhi 2016, Society for Fundamental Research and Development, New Delhi.
- Ministry of Urban Development (1996) The Urban Development Plan Formulation and Implementation (URDPFI) Guidelines, Government of India, New Delhi.
- Ministry of Urban Development (2015) The Urban and Regional Development Plan Formulation and Implementation (URDPFI) Guidelines, Government of India, New Delhi.

SUGGESTED E-RESOURCES / RESOURCES

- URDPFI Guidelines, Ministry of Housing and Urban Affairs, Government of India.
- Census of India Database.
- Municipal Development Plans and Zonal Plans.
- Development Control Regulations and Building Bye-Laws.
- GIS-based spatial databases and planning support systems.
- MoHUA planning manuals and urban development reports.

COURSE ARTICULATION MATRIX (MAPPING OF COS WITH POS)

Course Outcomes	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
CO1	3	2	2	2	2	-	2	-	1	1	-	2
CO2	2	3	2	3	3	1	-	-	2	2	-	1
CO3	2	3	3	2	-	2	1	1	3	3	1	1

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ASSESSMENT SCHEME

Component	Method	COs Mapped	Weightage
Literature Review Assignment	Written Review and Presentation	CO1	10%
Area Documentation & Survey	Field Survey, Documentation and Mapping	CO2	10%
Analytical Exercises	SWOT Analysis, Data Interpretation and Thematic Mapping	CO2	20%
Studio Presentation	Oral and Graphical Presentation	CO1, CO2, CO3	20%
Planning Proposal Report	Report Preparation and Planning Strategies	CO3	15%
Viva Voce	Jury and Defense of Work	CO1, CO2, CO3	25%

EVALUATION RUBRICS (STUDIO)

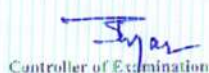
Criteria	Excellent (4)	Good (3)	Average (2)	Poor (1)
Area Documentation	Comprehensive, accurate and well-organized documentation	Minor omissions, generally accurate	Basic documentation with limited detail	Incomplete documentation
Data Analysis	Insightful interpretation and strong analytical reasoning and inferences	Good analysis with logical interpretation	Limited analysis and interpretation	Weak or incorrect analysis
Planning Proposals	Innovative, feasible and context-responsive proposals	Appropriate and practical proposals	Basic proposals with limited justification	Inadequate proposals
Graphic Communication	Clear, accurate and professionally presented maps and graphics	Good graphical quality with minor issues	Adequate representation	Poor graphical presentation
Report Preparation	Well-structured, properly referenced and professionally written	Good organization with minor gaps	Basic report structure	Poorly organized report
Presentation & Viva	Confident, coherent and technically sound explanation	Good communication and understanding	Satisfactory communication	Inadequate presentation and understanding


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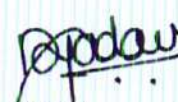
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MPLN102 – PLANNING TECHNIQUES

MPLN102: PLANNING TECHNIQUES

COURSE CODE	COURSE CORE	COURSE TYPOLOGY	COURSE NAME	TEACHING & EVALUATION SCHEME						L	T	S	CREDITS	
				Marks	THEORY			STUDIO						
					Two Term Exam	Teachers Assessment*	End Sem University Exam	Internal Assessment	External Viva					
MPLN 102	PC	THEORY	PLANNING TECHNIQUES	Max	20	20	60	0	0	2	0	0	2	
				Min	9	9	27							

Legends: L - Lecture; T - Tutorial/Teacher Guided Student Activity; S – Studio; C - Credit; *Teacher Assessment shall be based following components: Quiz/Assignment/ Project/Participation in Class, given that no component shall exceed more than 10 marks.

COURSE INFORMATION

Prerequisites : Basic understanding of maps, planning concepts and urban systems..
 Mode of Delivery : Lectures, demonstrations, mapping exercises, survey exercises and analytical assignments.

COURSE EDUCATIONAL OBJECTIVES (CEOS):

S. No.	CEO	Bloom's Level	Domain
CEO1	To understand techniques used at various stages in planning and methods of selection of data.	Understand (L2)	Cognitive
CEO2	To impart knowledge about preparation of maps and undertake data collection and analysis for plan preparation.	Apply (L3)	Cognitive
CEO3	To familiarize students with planning practices in India and their manifestations on the urban and regional front.	Analyse (L4)	Cognitive

COURSE ALIGNMENT WITH UNSDG

This course contributes to SDG 9: Industry, Innovation and Infrastructure, SDG 11: Sustainable Cities and Communities and SDG 17: Partnerships for the Goals by promoting evidence-based planning methods, spatial analysis techniques, planning surveys, mapping systems and analytical approaches for sustainable urban and regional planning.

COURSE OUTCOMES

After completion of this course the students are expected to be able to demonstrate following knowledge, skills and attitudes. Basic knowledge about existing planning techniques and their range of applications.

CO	Outcome	Bloom	SDG
CO1	To create base maps and present planning information on maps.	Apply (L3)	SDG 9
CO2	To have an understanding for methods of data collection and to analyse the types of data required for planning.	Analyse (L4)	SDG 11
CO3	To be able to examine data for understanding the existing situation in a settlement and implementing its analysis to formulate the plans and policies.	Create (L6)	SDG 11, SDG 17

COURSE FOCUS:

- Planning surveys and mapping
- Spatial representation techniques
- Data collection and analysis
- Planning projections and forecasting
- Graphical and statistical presentation techniques
- Regional and spatial analysis


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MPLN102 – PLANNING TECHNIQUES

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COURSE OVERVIEW:

This course introduces students to planning techniques used in urban and regional planning including mapping, surveys, data collection, data analysis and spatial representation. The course focuses on preparation of base maps, collection and interpretation of planning data, graphical presentation techniques and analytical methods required for plan preparation and policy formulation.

TEACHING PEDAGOGY:

Code	Method
T1	Lectures and classroom discussions
T2	Mapping and graphical exercises
T3	Survey and questionnaire exercises
T4	Demonstration sessions
T5	Data analysis exercises
T6	Case studies and presentations

ASSESSMENT TOOLS:

Code	Tool
AT2-1	Quiz / Test
AT2-2	Mapping Exercise
AT2-3	Survey Design Assignment
AT2-4	Data Analysis Exercise
AT2-5	Presentation
AT2-6	End Semester Examination

COURSE CONTENTS:

Unit	Syllabus: Topic	Subtopic	Teaching Hours	Assessment Tools
I	Scales And Preparation of Maps	Basic Terminologies, Maps as a representation of reality, Elements of Maps: Representation of Spatial Data, Graphical, linear and areal scales, Notations involving basic discipline of maps; Measurement of areas; Base Map Preparation, Contents of base maps at various scales; Choice of appropriate scales for region and settlement level plans, town development plans, zonal development plans, layout plans.	8 hrs	AT2-1, AT2-2

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Unit	Syllabus: Topic	Subtopic	Teaching Hours	Assessment Tools
2	Data Collection and Analysis Techniques (Qualitative & Quantitative)	Data requirements for urban and regional planning; Sources of primary and secondary data, Validity and reliability of data, Questionnaire design, measurement scales and their applications, , Different Types of Surveys: Land Use, Socio-Economic, Building Use, Density, Socioeconomic surveys, Sampling techniques. Methods of Collecting Qualitative Data – Interviews, Focus Group discussions, Self-surveys, interviews, mailed questionnaires and observer participation, etc. Approaches to Analyze Qualitative Data – Delphi Method, Likert Scale, etc.;	10 hrs	AT2-3, AT2-4
3	Analysis And Presentation of Data	Methods of population forecasts and projections; Land suitability analysis, Land use classification, coding and analysis; residential and non-residential density patterns and their analyses; population and economic analysis. Tabulation of data, graphical presentation of data; Preparing pie diagrams, histograms, bar charts, normal, semi-log and double log graphs and their uses; colour, black and white presentation techniques; Understanding the discipline of illustrations and tables. Colour, black and white presentation techniques; Basic discipline of presenting illustrations; Presentation of spatial data, analysis and proposals., Use of AI and ML, etc. Classification of regions, delineation techniques of various types of regions, analysis of structure of nodes, hierarchy , SWOT analysis. Use of AI for Presentation of spatial data, analysis and proposals	12 hrs	AT2-4, AT2-5, AT2-6

REFERENCE BOOKS / REPORTS

1. Bracken, I. (1999) Urban Planning Methods: Research and Policy Analysis, Methuen, London.
2. 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.
3. Wang X., Rainer A. and Hofe, V. (2007) Research Methods in Urban and Regional Planning, Springer, Berlin.
4. Monmonier, M. (1996) How to Lie with Maps, University of Chicago Press, Chicago.
5. Planning Techniques for AITP, Reader on Institute of Town Planners India
6. URDPFI Guidelines Volume 1, Ministry of Urban Development, Govt. of India, New Delhi 2014
7. Remote Sensing and Image Interpretation, Thomas M. Lillesand et al, John Wiley and Sons Ltd. 1987
8. Spatial Analysis, Mark R. T. Dale, Marie-Josée Fortin, Cambridge University Press 2005
9. Urbanisation and Urban Systems in India, Ramchandran R. Oxford University Press 2010

SUGGESTED E-RESOURCES / RESOURCES

1. URDPFI Guidelines and MoHUA Manuals
2. Census of India Database

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MPLN103 – INFRASTRUCTURE PLANNING

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MPLN 103	P C	THEORY	INFRASTRUCTURE PLANNING	Max	20	20	60	0	0	2	0	0	2
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Legends: L - Lecture; T - Tutorial/Teacher Guided Student Activity; S - Studio; C - Credit; *Teacher Assessment shall be based following components: Quiz/Assignment/ Project/Participation in Class, given that no component shall exceed more than 10 marks.

COURSE INFORMATION

Prerequisites : Basic understanding of urban planning and settlement systems

Mode of Delivery : Lectures, case studies, analytical exercises, infrastructure assessment and presentations.

COURSE EDUCATIONAL OBJECTIVES (CEOS):

S. No.	CEO	Bloom's Level	Domain
CEO1	The course is an introduction to infrastructure planning and its design principles..	Understand (L2)	Cognitive
CEO2	To provide basic knowledge about physical and social infrastructure and requirements of various infrastructure for a settlement.	Apply (L3)	Cognitive

COURSE ALIGNMENT WITH UNSDG

This course contributes to SDG 6: Clean Water and Sanitation, SDG 9: Industry, Innovation and Infrastructure , SDG 11: Sustainable Cities and Communities and SDG 13: Climate Action by promoting sustainable infrastructure systems, efficient utility planning, sanitation systems, social infrastructure provision and environmentally responsive urban infrastructure development.

COURSE OUTCOMES

After completion of this course the students are expected to be able to demonstrate

CO	Outcome	Bloom	SDG
CO1	To identify the problems and issues related to infrastructure provision in a settlement.	Analyse (L4)	SDG 11
CO2	To appraise planning guidelines to tackle these problems, and extent of infrastructure required for the future planning of settlements.	Evaluate (L5)	SDG 11, SDG6
CO3	To design and make recommendations for meeting the future needs infrastructure for a human settlement.	Create (L6)	SDG 9, SDG 11, SDG 13

COURSE FOCUS

- Urban infrastructure systems
- Water supply and sanitation planning
- Storm water drainage and solid waste management
- Social infrastructure planning
- Infrastructure standards and planning norms
- Infrastructure policies and programmes

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MPLN103 – INFRASTRUCTURE PLANNING

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COURSE OVERVIEW

This course introduces students to the concepts, principles and planning approaches related to infrastructure planning for urban and rural settlements. The course focuses on planning and management of physical and social infrastructure including water supply, sewerage, sanitation, storm water drainage, solid waste management and social infrastructure systems. It also familiarizes students with infrastructure standards, policies, programmes and planning guidelines relevant to infrastructure development.

TEACHING PEDAGOGY:

Code	Method
T1	Lectures and classroom discussions
T2	Infrastructure planning case studies
T3	Standards and guideline interpretation exercises
T4	Analytical and mapping exercises
T5	Infrastructure assessment exercises
T6	Student presentations and discussions

ASSESSMENT TOOLS:

Code	Tool
AT3-1	Quiz / Test
AT3-2	Infrastructure Analysis Exercise
AT3-3	Standards and Norms Assignment
AT3-4	Case Study Review
AT3-5	Presentation
AT3-6	End Semester Examination

COURSE CONTENTS:

Unit	Syllabus: Topic	Subtopic	Teaching Hours	Assessment Tools
I	Role Of Infrastructure In Development	Elements of Infrastructure (physical, social, utilities and services); Basic definitions, concepts, significance and importance; Norms and standards, etc. Urban Infrastructure: Definition, Attributes, Character and Types; Status of Urban Infrastructure in India and Its Impact on Socio-Economic Development; Role of Planner in Urban Infrastructure Planning; Familiarization with CPHEEO Manuals, IRC Codes and Other Standard Guidelines	6 hrs	AT3-1, AT3-3

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MPLN103 – INFRASTRUCTURE PLANNING

COURSE CODE	COURSE CORE	COURSE TYPOLOGY	COURSE NAME	TEACHING & EVALUATION SCHEME						L	T	S	CREDITS
				Marks	THEORY			STUDIO					
					Two Term Exam	Teachers Assessment*	End Sem University Exam	Internal Assessment	External Viva				
MPLN 103	P C	THEORY	INFRASTRUCTURE PLANNING	Max	20	20	60	0	0	2	0	0	2
				Min	9	9	27	0	0				

Legends: L - Lecture; T - Tutorial/Teacher Guided Student Activity; S – Studio; C - Credit; *Teacher Assessment shall be based following components: Quiz/Assignment/ Project/Participation in Class, given that no component shall exceed more than 10 marks.

Unit	Syllabus: Topic	Subtopic	Teaching Hours	Assessment Tools
II	Water Supply System	Surface and Ground Water Sources; Quality and Quantity Requirements; Water Demand; Treatment, Conveyance and Distribution of Water Supply Systems; water requirement for various land uses; Factors affecting water demand; Storage facilities and distribution systems; Rain water harvesting systems and locational criteria, implications on land use and density of water harvesting system; Innovative Methods and successful urban water supply system practices; Water programmes and policies.	6 hrs	AT3-2, AT3-4
III	Sanitation And Sewerage System And Storm Water Drainage	General considerations and principle of sanitation and sewerage systems; Sewage disposal and treatment methods; Characteristics of waste water, industrial pollutants and their affects; Open defecation; Manual scavenging; Innovative approaches of sewage disposal in urban areas and low cost appropriate technologies for sanitation; Storm water drainage networks, and network mapping; Elements of Solid Waste Management, Classification and Characteristics of Solid Wastes; Methods for Solid waste Collection, Storage, transportation and disposal; grey water disposal, DEWATS, institutional arrangements, planning provisions and management issues. Processing and Treatment of Solid Wastes; Land Filling methods of Solid Waste Management.	8 hrs	AT3-2, AT3-4, AT3-5
IV	Social Infrastructure	Social infrastructure typologies; Planning norms and space standards for education, health, recreation and socio-cultural facilities; Amenities for urban and rural settlements; Significance of education and health infrastructure in planning; Locating education and health facilities; Understanding scalogram and other techniques.	4 hrs	AT3-3, AT3-5
V	Policies, Programmes And Projects	Understanding prevalent policies, projects and missions, for example, JNNURM, AMRUT, HRIDAY, Smart Cities Mission, etc.; Norms and standards for different types of infrastructure; Nature and content of infrastructure in development plans at different geographical levels; Making assessment of infrastructure requirements in plans.	6 hrs	AT3-4, AT3-6

REFERENCE BOOKS / REPORTS

- Hudson, W.R., Hass, R.C.G. Uddin, W. (1997) Infrastructure Management, McGraw Hill, London.
- Gifford, J.W. Uzarski, D.R. and McNeil, S. (1993) Infrastructure Planning and Management, American Society of Civil Engineers, Reston, VA.
- Goodman, A. and Hartak, M. (2000) Infrastructure Planning Handbook, ASCE Press, Reston, VA.

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MPLN103 – INFRASTRUCTURE PLANNING

COURSE CODE	COURSE CORE	COURSE TYPOLOGY	COURSE NAME	TEACHING & EVALUATION SCHEME						L	T	S	CREDITS	
				Marks	THEORY			STUDIO						
					Two Term Exam	Teachers Assessment*	End Sem University Exam	Internal Assessment	External Viva					
MPLN 103	P C	THEORY	INFRASTRUCTURE PLANNING	Max	20	20	60	0	0	2	0	0	2	
				Min	9	9	27	0	0					

Legends: L - Lecture; T - Tutorial/Teacher Guided Student Activity; S – Studio; C - Credit; *Teacher Assessment shall be based following components: Quiz/Assignment/ Project/Participation in Class, given that no component shall exceed more than 10 marks.

- Parkin, J. and Sharma, D. (1999) Infrastructure Planning, Thomas Jelford Publishing, London.
- CPHEEO Manuals on Water Supply, Sewerage, Solid Waste Management Systems, 1999, 2005, 2013
- Urban Planning Manual, AILGS Reader 2009
- Environmental Engineering, Howard S. Peavy, Tata Mc Grawhill 2013
- Water Supply Engineering: Environmental Engineering – I, Arun Kumar Jain, Ashok Kumar Jain, B. C. Punmia, Laxmi Publication 1995
- Solid Waste Management, Krishana Gopi Sanoop P, Sasikumar K, Phi Learning 2009

SUGGESTED E-RESOURCES / RESOURCES

- CPHEEO Manuals and Guidelines
- MoHUA Infrastructure Planning Guidelines
- AMRUT and Smart Cities Mission Reports
- IRC Codes and Infrastructure Standards
- GIS and Infrastructure Planning Platforms
- Urban Infrastructure Databases and Reports

COURSE ARTICULATION MATRIX (MAPPING OF COS WITH POS)

Course Outcomes	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
CO1	2	3	2	3	-	-	-	-	1	-	-	1
CO2	3	3	3	3	3	1	-	1	2	-	1	1
CO3	3	3	3	3	3	2	1	2	2	3	-	2

ASSESSMENT SCHEME

Component	Method	COs Mapped	Weightage
Quiz / Test	Written Examination	CO1	10%
Infrastructure Analysis Exercise	Analytical Exercise	CO1, CO2	15%
Standards and Norms Assignment	Planning Standards Review	CO2	15%
Case Study Review	Infrastructure Planning Case Study	CO2, CO3	15%
Presentation	Infrastructure Proposal Presentation	CO3	10%
End Semester Examination	Theory Examination	CO1, CO2, CO3	35%

EVALUATION RUBRICS

Criteria	Excellent (4)	Good (3)	Average (2)	Poor (1)
Infrastructure Analysis	Comprehensive and technically sound analysis	Good analysis with minor gaps	Basic analysis	Weak analysis
Application of Standards	Accurate application of planning standards	Good application	Limited understanding	Incorrect application
Problem Identification	Clearly identifies infrastructure issues	Good identification of issues	Partial identification	Poor identification
Planning Recommendations	Innovative and feasible recommendations	Practical recommendations	Basic recommendations	Weak recommendations
Presentation Skills	Clear, professional and technically strong	Good communication	Average presentation	Poor presentation

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MPLN104: ECONOMICS AND URBAN SOCIOLOGY

COURSE CODE	COURSE CORE	COURSE TYPOLOGY	COURSE NAME	TEACHING & EVALUATION SCHEME						L	T	S	CREDITS
				Marks	THEORY			STUDIO					
					Two Term Exam	Teachers Assessment*	End Sem University Exam	Internal Assessment	External Viva				
MPLN 104	PC	THEORY	ECONOMICS AND URBAN SOCIOLOGY	Max	20	20	60	0	0	2	0	0	2
				Min	9	9	27	0	0				

Legends: L - Lecture; T - Tutorial/Teacher Guided Student Activity; S – Studio; C - Credit; *Teacher Assessment shall be based on following components: Quiz/Assignment/ Project/Participation in Class, given that no component shall exceed more than 10 marks.

COURSE INFORMATION

Prerequisites : Basic understanding of urban planning and settlement systems

Mode of Delivery : Lectures, discussions, analytical exercises, case studies and presentations

COURSE EDUCATIONAL OBJECTIVES (CEOS)

S. No.	CEO	Bloom's Level	Domain
CEO1	The course aims to introduce the concepts of Economics and Urban Sociology, which are the essential factor in urban planning process	Understand (L2)	Cognitive
CEO2	To develop knowledge to identify and address the needs of various population segments to ensure that all have an equal opportunity at both change and benefit.	Analyse (L4)	Cognitive

COURSE ALIGNMENT WITH UNSDG

This course contributes to SDG 1: No Poverty, SDG 5: Gender Equality, SDG 10: Reduced Inequalities and SDG 11: Sustainable Cities and Communities through inclusive planning approaches, socio-economic analysis, livelihood planning and understanding social transformation in urban areas.

COURSE OUTCOMES

After completion of this course the students are expected to be able to demonstrate

CO	Outcome	Bloom	SDG
CO1	Incorporate the knowledge of different planning theories and paradigms in approaching socio-economic planning process.	Apply (L3)	SDG 11
CO2	Address planning needs of different segments of the population and their distinctive issues and needs with respect to living and working in an urban environment.	Analyse (L4)	SDG 5, SDG 10, SDG 11
CO3	To develop the basic understanding of some key economic concepts and their application in planning.	Understand (L2)	SDG 1, SDG 11

COURSE FOCUS:

- Urban sociology and social transformation
- Society, culture and urbanization
- Social problems and inclusive planning
- Economic concepts and planning
- Policies and strategies in economic planning
- Socio-economic dimensions of urban planning

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MPLN104 – ECONOMICS AND URBAN SOCIOLOGY

COURSE CODE	COURSE CORE	COURSE TYPOLOGY	COURSE NAME	TEACHING & EVALUATION SCHEME						L	T	S	CREDITS
				Marks	THEORY			STUDIO					
					Two Term Exam	Teachers Assessment*	End Sem University Exam	Internal Assessment	External Viva				
MPLN 104	PC	THEORY	ECONOMICS AND URBAN SOCIOLOGY	Max	20	20	60	0	0	2	0	0	2
				Min	9	9	27	0	0				

Legends: L - Lecture; T - Tutorial/Teacher Guided Student Activity; S – Studio; C - Credit; *Teacher Assessment shall be based following components: Quiz/Assignment/ Project/Participation in Class, given that no component shall exceed more than 10 marks.

COURSE OVERVIEW:

This course introduces the concepts of economics and urban sociology relevant to urban planning. The course focuses on understanding socio-cultural transformation, social issues, inclusive planning, economic principles and socio-economic policies influencing urban development. It enables students to understand the relationship between society, economy and planning processes in urban and regional contexts.

TEACHING PEDAGOGY:

Code	Method
T1	Lectures and classroom discussions
T2	Socio-economic analysis exercises
T3	Case studies and policy discussions
T4	Demographic and economic data interpretation
T5	Group discussions and presentations
T6	Analytical assignments and reviews

ASSESSMENT TOOLS:

Code	Tool
AT4-1	Quiz / Test
AT4-2	Socio-economic Analysis Assignment
AT4-3	Policy Review Exercise
AT4-4	Economic Analysis Exercise
AT4-5	Presentation
AT4-6	End Semester Examination

COURSE CONTENTS:

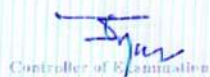
Unit	Topic	Subtopics	Teaching Hours	Assessment Tools
I	Society , Culture And The City	Sociological concepts and methods, man and environment relationships; Socio-cultural profile of Indian society and urban transformation. Tradition and modernity in the context of urban and rural settlements; Issues related to caste, age, sex, gender, health safety, and marginalized groups. Displacement, resettlement and rehabilitation due to compulsory land acquisition.	6 hrs	AT4-1, AT4-2


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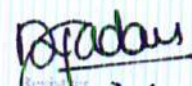
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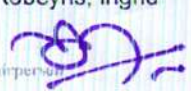
COURSE CODE	COURSE CORE	COURSE TYPOLOGY	COURSE NAME	TEACHING & EVALUATION SCHEME						L	T	S	CREDITS
				Marks	THEORY			STUDIO					
					Two Term Exam	Teachers Assessment*	End Sem University Exam	Internal Assessment	External Viva				
MPLN 104	PC	THEORY	ECONOMICS AND URBAN SOCIOLOGY	Max	20	20	60	0	0	2	0	0	2
				Min	9	9	27	0	0				

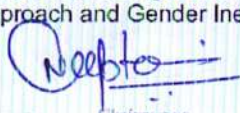
Legends: L - Lecture; T - Tutorial/Teacher Guided Student Activity; S – Studio; C - Credit; *Teacher Assessment shall be based following components: Quiz/Assignment/ Project/Participation in Class, given that no component shall exceed more than 10 marks.

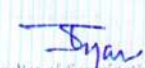
Unit	Topic	Subtopics	Teaching Hours	Assessment Tools
II	Social Problems And Crime	Social problems of slums and squatters communities, urban and rural social transformation and their impact on social life, safety, security. Crimes in urban areas and their spatial planning implications, social structure and spatial planning. Role of socio-cultural aspects on growth patterns of city and neighbourhood communities. Social planning and policy, and community participation. Marginalization and concepts of inclusive planning, and gender concerns in planning.	4 hrs	AT4-2, AT4-3
III	Policies and Considerations	Settlement Policy: National Commission on Urbanization, Rural Habitat Policy and experiences from developing countries regarding settlement structure, growth and spatial distribution.	8 hrs	AT4-3, AT4-5
IV	Concepts of Economics	Concepts of demand, supply, elasticity and consumer markets; concept of revenue costs. Economies of scale, economic and social costs, production and factor market. Different market structures and price determination; market failures, cost-benefit analysis, public sector pricing. Determinants of national income, consumption, investment, inflation, unemployment, capital budgeting, risk and uncertainty, and long-term investment planning.	8 hrs	AT4-4, AT4-5
V	Policies and Strategies in Economic Planning	Economic growth and development, quality of life. Human development index, poverty and income distribution, employment and livelihood. Economic principles in land use planning, Policies and strategies in economic planning, balanced versus unbalanced growth, public sector dominance. Changing economic policies, implications on land.	6 hrs	AT4-4, AT4-6

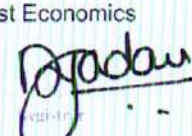
REFERENCE BOOKS / REPORTS

1. Sociology, Anthony Giddens, Wiley
2. Sociology, John J. Macionis, Pearson
3. Urban Sociology: Images and Structure, Flanagan, William G., Prentice Hall
4. Urban Problems in Sociological Perspective, Shannon, Thomas R., Waveland Press Inc
5. The Metropolis and Mental Life, Simmel, Georg, New York: Free Press
6. Key Concepts in Urban Studies, M. Gottdiener, Sage London
7. The Sage Handbook of Sociology, Bryn Turner et al, Sage
8. Capability and Well-Being, Sen, Amartya and M. Nussbaum. Oxford Clarendon Press
9. Inclusive Growth In India, R.U. Singh A.K. Thakur, Deep and Deep Publications
10. Sen.'s Capability Approach and Gender Inequality: Selecting Relevant Capabilities. Feminist Economics Robeyns, Ingrid


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MPLN104 – ECONOMICS AND URBAN SOCIOLOGY

COURSE CODE	COURSE CORE	COURSE TYPOLOGY	COURSE NAME	TEACHING & EVALUATION SCHEME						L	T	S	CREDITS
				Marks	THEORY			STUDIO					
					Two Term Exam	Teachers Assessment*	End Sem University Exam	Internal Assessment	External Viva				
MPLN 104	PC	THEORY	ECONOMICS AND URBAN SOCIOLOGY	Max	20	20	60	0	0	2	0	0	2
				Min	9	9	27	0	0				

Legends: L - Lecture; T - Tutorial/Teacher Guided Student Activity; S - Studio; C - Credit; *Teacher Assessment shall be based following components: Quiz/Assignment/ Project/Participation in Class, given that no component shall exceed more than 10 marks.

SUGGESTED E-RESOURCES / RESOURCES

1. Census of India Database
2. National Urban Livelihood Mission Reports
3. Human Development Reports
4. Socio-economic Survey Databases
5. Planning Commission / NITI Aayog Reports
6. Urban Sociology and Economic Planning Journals

COURSE ARTICULATION MATRIX (MAPPING OF COS WITH POS)

Course Outcomes	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
CO1	3	1	2	-	-	3	1	2	1	2	-	1
CO2	2	-	3	3	1	3	-	3	2	3	1	2
CO3	2	1	2	2	1	3	-	2	1	2	-	2

ASSESSMENT SCHEME

Component	Method	COs Mapped	Weightage
Quiz / Test	Written Examination	CO1	10%
Socio-economic Analysis Assignment	Analytical Exercise	CO1, CO2	15%
Policy Review Exercise	Policy Analysis	CO2	15%
Economic Analysis Exercise	Analytical and Numerical Exercise	CO3	20%
Presentation	Presentation and Discussion	CO1, CO2	10%
End Semester Examination	Theory Examination	CO1, CO2, CO3	30%

EVALUATION RUBRICS

Criteria	Excellent (4)	Good (3)	Average (2)	Poor (1)
Socio-economic Analysis	Insightful and comprehensive analysis	Good analysis with minor gaps	Basic analysis	Weak analysis
Understanding of Social Issues	Strong understanding and interpretation	Good understanding	Limited understanding	Poor understanding
Economic Interpretation	Accurate application of economic concepts	Good interpretation	Basic interpretation	Weak interpretation
Policy Analysis	Critical and relevant policy understanding	Good policy understanding	Limited analysis	Weak policy understanding
Presentation Skills	Clear, confident and analytical presentation	Good communication	Average presentation	Poor presentation

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MPLN105 – GIS I

MPLN105: GIS I

COURSE CODE	COURSE CORE	COURSE TYPOLOGY	COURSE NAME	TEACHING & EVALUATION SCHEME						L	T	S	CREDITS
				Marks	THEORY			STUDIO					
					Two Term Exam	Teachers Assessment*	End Sem University Exam	Internal Assessment	External Viva				
MPLN 105	SEC	TUTORIAL	GIS I	Max	0	0	0	100	0	0	0	2	2
				Min				50					

Legends: L - Lecture; T - Tutorial/Teacher Guided Student Activity; S - Studio; C - Credit; *Teacher Assessment shall be based following components: Quiz/Assignment/ Project/Participation in Class, given that no component shall exceed more than 10 marks.

COURSE INFORMATION

Prerequisites : Basic understanding of urban planning and settlement systems

Mode of Delivery : Tutorial-based learning, software demonstrations, GIS exercises, mapping assignments and presentations

COURSE EDUCATIONAL OBJECTIVES (CEOS):

S. No.	CEO	Bloom's Level	Domain
CEO1	The objective of this course tends to provide a basic understanding of the computing skills related to drawing and planning tasks, for bringing students with different backgrounds on a common learning base.	Understand (L2)	Cognitive
CEO2	The fundamental knowledge of GIS planning software starts for the efficiency perspective in studio subject.	Apply (L3)	Cognitive

COURSE ALIGNMENT WITH UNSDG

This course contributes to SDG 9: Industry, Innovation and Infrastructure, SDG 11: Sustainable Cities and Communities and SDG 13: Climate Action through GIS-based planning analysis, spatial information systems, remote sensing applications and technology-enabled urban planning practices.

COURSE OUTCOMES

After completion of this course the students are expected to be able to demonstrate

CO	Outcome	Bloom	SDG
CO1	Show understanding of urban information systems in planning and relevant government initiatives. To produce maps and generate analysis of planning issues with the use of GIS and remote sensing.	Apply (L3)	SDG 11, SDG 13
CO2	Develop proficient working skills on software , that can enable them in their urban planning projects .	Apply (L3)	SDG 9, SDG 11

COURSE FOCUS:

1. Geographic Information Systems (GIS)
2. Remote sensing and spatial analysis GIS mapping and geodatabases
3. GIS data processing and analysis
4. Urban information systems
5. Government initiatives and GIS applications in planning

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MPLN105 – GIS I

COURSE CODE	COURSE CORE	COURSE TYPOLOGY	COURSE NAME	TEACHING & EVALUATION SCHEME						L	T	S	CREDITS
				Marks	THEORY			STUDIO					
					Two Term Exam	Teachers Assessment*	End Sem University Exam	Internal Assessment	External Viva				
MPL N105	SEC	TUTORIAL	GIS I	Max	0	0	0	100	0	0	0	2	2
				Min				50					

Legends: L - Lecture; T - Tutorial/Teacher Guided Student Activity; S – Studio; C - Credit; *Teacher Assessment shall be based following components: Quiz/Assignment/ Project/Participation in Class, given that no component shall exceed more than 10 marks.

COURSE OVERVIEW:

This course introduces students to Geographic Information Systems (GIS), remote sensing and urban information systems relevant to planning practice. The course focuses on GIS data structures, mapping techniques, geo-referencing, GIS analysis tools, remote sensing applications and urban information systems. Students are expected to develop practical GIS skills and apply GIS-based analytical techniques in planning-related projects and exercises.

TEACHING PEDAGOGY:

Code	Method
T1	Tutorial-based software learning
T2	GIS mapping exercises
T3	Remote sensing demonstrations
T4	Spatial analysis exercises
T5	Case studies and practical assignments
T6	Presentations and software-based reviews

ASSESSMENT TOOLS:

Code	Tool
AT5-1	GIS Mapping Exercise
AT5-2	Spatial Analysis Assignment
AT5-3	GIS Data Processing Exercise
AT5-4	Remote Sensing Exercise
AT5-5	Software-based Presentation
AT5-6	Final Practical Submission

COURSE CONTENTS:

Unit	Syllabus: Topic	Subtopic	Teaching Hours	Assessment Tools
I	Introduction to information systems and components	Definition of information systems, types, concepts, components. Geographic Information Systems: Concept, components, and benefits, Raster and Vector Data Structures; Spatial Data Models; Geo-Database; Analyzing Tools and Software.	4 hrs	AT5-1, AT5-2
II	GIS Techniques	Basic features point, line, polygon creation on GIS. Mapping and spatial analysis software, linking of attribute data, spatial data aggregation, spatial data generalization; Raster data capture; Cloud based GIS on Bhuvan platform; GIS based master plans; Resource satellite, and sensing capabilities; Aerial photography; Digital survey; Raster data processing and analysis; Resolutions; Geo-Rectification; Geometric distortions, image enhancement, transformation, segmentation; Image interpretation and analysis.	10 hrs	AT5-1, AT5-3, AT5-4

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MPLN105 – GIS I

COURSE CODE	COURSE CORE	COURSE TYPOLOGY	COURSE NAME	TEACHING & EVALUATION SCHEME						L	T	S	CREDITS
				Marks	THEORY			STUDIO					
					Two Term Exam	Teachers Assessment*	End Sem University Exam	Internal Assessment	External Viva				
MPL N105	SEC	TUTORIAL	GIS I	Max	0	0	0	100	0	0	0	2	2
				Min				50					

Legends: L - Lecture; T - Tutorial/Teacher Guided Student Activity; S – Studio; C - Credit; *Teacher Assessment shall be based following components: Quiz/Assignment/ Project/Participation in Class, given that no component shall exceed more than 10 marks.

Unit	Syllabus: Topic	Subtopic	Teaching Hours	Assessment Tools
III	Advanced GIS mapping coordinate system	Geo referencing and geo-coding; GIS data processing (Digitization, topology building and metadata creation), Data structures and modeling, GIS analysis (Buffer, proximity and overlay). 3D terrain modelling. Role of AI and ML in town planning, use of drone technology for planning. GIS Mapping Coordinate system, Decision making through GIS, Information systems (Land Information system, Urban Information system for various activity sectors). Introduction to AI-enabled geospatial platforms such as Google Earth Engine and ArcGIS AI tools. AI-assisted land-use and land-cover classification using satellite imagery.	10 hrs	AT5-2, AT5-3, AT5-5
IV	Data sources in GIS	Government Initiatives and Urban Information Systems in Planning National Natural Resources Management System (NNRMS), National Urban Information System (NUIS), NUIS guidelines and design standards; National urban observatory, AICTE Model Curriculum for Master of Planning 86 municipal information systems, the National E-Governance Plan (NEGP) and land information systems; Global navigation satellite systems.	6 hrs	AT5-4, AT5-6

REFERENCE BOOKS / REPORTS

- Advanced Surveying: Total Station, GIS and Remote Sensing, Satheesh Gopi, Pearson
- Applied Remote Sensing in Urban Planning, Governance and Sustainability, Netzband, Springer, India
- Environmental Modelling with GIS and Remote Sensing, Andrew Skidmore et al, CRC Press
- Geographic Information Systems and Science, PA Longley et al, John Wiley and Sons Ltd.
- GIS, Spatial Analysis, and Modeling, David J Maguire et al, ESRI Press
- Land use Change Detection using GIS, Remote Sensing and Spatial Matrices, Mesfin T Bekalo et al, Lap Lambert Academic Publications
- Government of India (1983) National Natural Resources Management System, Government of India, New Delhi.
- Greene, R.P. and Pick, J.B. (2012) Exploring the Urban Community: A GIS Approach, Prentice Hall, Upper Saddle River, NJ.
- Weng, Q. (2010) Remote Sensing and GIS Integration: Theories, Methods, and Applications, McGraw Hill, New York
- Laurini, R. (2001) Information Systems for Urban Planning: A Hypermedia Co-Operative Approach, Routledge, New York.
- Huxhold, W.E. (1991) An Introduction to Urban Geographic Information Systems, Oxford University Press, New York.
- Greene, R.P. and Pick, J.B. (2012) Exploring the Urban Community: A GIS Approach, Prentice Hall, Upper Saddle River, NJ.

SUGGESTED E-RESOURCES / RESOURCES

- Bhuvan GIS Platform

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MPLN105 – GIS I

COURSE CODE	COURSE CORE	COURSE TYPOLOGY	COURSE NAME	TEACHING & EVALUATION SCHEME						L	T	S	CREDITS
				Marks	THEORY			STUDIO					
					Two Term Exam	Teachers Assessment*	End Sem University Exam	Internal Assessment	External Viva				
MPL N105	SEC	TUTORIAL	GIS I	Max	0	0	0	100	0	0	0	2	2
				Min				50					

Legends: L - Lecture; T - Tutorial/Teacher Guided Student Activity; S - Studio; C - Credit; *Teacher Assessment shall be based following components: Quiz/Assignment/ Project/Participation in Class, given that no component shall exceed more than 10 marks.

- ISRO Remote Sensing Resources
- QGIS and ArcGIS Learning Resources
- NUIS and NNRMS Guidelines
- Urban GIS and Spatial Data Portals
- Remote Sensing and GIS Journals

COURSE ARTICULATION MATRIX (MAPPING OF COS WITH POS)

Course Outcomes	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
CO1	3	2	3	3	3	-	-	-	-	1	1	3
CO2	2	3	2	3	3	1	-	1	1	2	-	3

ASSESSMENT SCHEME

Component	Method	COs Mapped	Weightage
GIS Mapping Exercise	Software-based Mapping Exercise	CO1	20%
Spatial Analysis Assignment	GIS Analysis and Interpretation	CO1	15%
GIS Data Processing Exercise	Digitization and Data Handling	CO2	20%
Remote Sensing Exercise	Raster and Image Analysis	CO1, CO2	15%
Software-based Presentation	GIS Workflow Presentation	CO2	10%
Final Practical Submission	GIS Project Submission	CO1, CO2	20%

EVALUATION RUBRICS

Criteria	Excellent (4)	Good (3)	Average (2)	Poor (1)
GIS Mapping Skills	Accurate and professional GIS mapping	Minor errors in mapping	Basic mapping quality	Poor mapping skills
Spatial Analysis	Insightful and technically strong analysis	Good analysis	Limited analysis	Weak analysis
Data Processing	Accurate and efficient GIS data handling	Good data processing	Basic processing	Incorrect processing
Software Proficiency	Strong command over GIS software	Good software handling	Basic operational skills	Weak software skills
Presentation Skills	Clear and technically sound presentation	Good communication	Average presentation	Poor presentation

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MPLN106 – PLANNING HISTORY AND THEORY

MPLN106: PLANNING HISTORY AND THEORY

COURSE CODE	COURSE CORE	COURSE TYPOLOGY	COURSE NAME	TEACHING & EVALUATION SCHEME						L	T	S	CREDITS	
				Marks	THEORY			STUDIO						
					Two Term Exam	Teachers Assessment*	End Sem University Exam	Internal Assessment	External Viva					
MPLN 106	PC	THEORY	PLANNING HISTORY AND THEORY	Max	20	20	60	0	0	2	0	0	2	
				Min	9	9	27							

Legends: L - Lecture; T - Tutorial/Teacher Guided Student Activity; S – Studio; C - Credit; *Teacher Assessment shall be based following components: Quiz/Assignment/ Project/Participation in Class, given that no component shall exceed more than 10 marks.

COURSE INFORMATION

Prerequisites : Basic understanding of urban planning and settlement systems

Mode of Delivery : Lectures, discussions, analytical exercises, case studies and presentations

COURSE EDUCATIONAL OBJECTIVES (CEOs):

S. No.	CEO	Bloom's Level	Domain
CEO1	To learn to have a general, and substantive command of the spectrum of past and present perspectives regarding planning theory.	Understand (L2)	Cognitive
CEO2	The objective is to develop an understanding of common planning tools, their historical development, assumptions and mechanisms.	Analyse (L4)	Cognitive

COURSE ALIGNMENT WITH UNSDG

This course contributes to SDG 11: Sustainable Cities and Communities and SDG 4: Quality Education through understanding historical planning theories, settlement evolution, traditional planning systems and contemporary planning practices for sustainable urban development.

COURSE OUTCOMES

After completion of this course the students are expected to be able to demonstrate

CO	Outcome	Bloom	SDG
CO1	To demonstrate appreciation and knowledge of histories of planning	Understand (L2)	SDG 11
CO2	In-depth knowledge about existing planning models and their range of applications.	Analyse (L4)	SDG 11
CO3	To explain and analyse abstract theoretical formulations.	Analyse (L4)	SDG 4, SDG 11

COURSE FOCUS

- History of urban planning
- Ancient and medieval cities
- Evolution of planning theories
- Historical planning models
- Contemporary planning concepts
- Indian knowledge systems in planning

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MPLN106 – PLANNING HISTORY AND THEORY

COURSE CODE	COURSE CORE	COURSE TYPOLOGY	COURSE NAME	TEACHING & EVALUATION SCHEME						L	T	S	CREDITS
				Marks	THEORY			STUDIO					
					Two Term Exam	Teachers Assessment*	End Sem University Exam	Internal Assessment	External Viva				
MPL N106	PC	THEORY	PLANNING HISTORY AND THEORY	Max	20	20	60	0	0	2	0	0	2
				Min	9	9	27						

Legends: L - Lecture; T - Tutorial/Teacher Guided Student Activity; S – Studio; C - Credit; *Teacher Assessment shall be based following components: Quiz/Assignment/ Project/Participation in Class, given that no component shall exceed more than 10 marks.

COURSE OVERVIEW:

This course introduces students to the historical evolution of cities, planning theories and contemporary planning practices. The course focuses on ancient and medieval cities, planning history, theoretical models and contemporary urban planning concepts. It enables students to understand the relationship between planning theory, urban form and socio-economic transformation across historical periods.

TEACHING PEDAGOGY:

Code	Method
T1	Lectures and classroom discussions
T2	Historical case study analysis
T3	Comparative theory discussions
T4	Reading and interpretation exercises
T5	Planning theory presentations
T6	Analytical assignments and reviews

ASSESSMENT TOOLS:

Code	Tool
AT6-1	Quiz / Test
AT6-2	Historical Planning Analysis Assignment
AT6-3	Theory Interpretation Exercise
AT6-4	Case Study Review
AT6-5	Presentation
AT6-6	End Semester Examination

COURSE CONTENTS:

Unit	Syllabus: Topic	Subtopic	Teaching Hours	Assessment Tools
I	Ancient And Medieval Cities In India	Urbanization in the Medieval period including a study of cities like Varanasi, MohenjoDaro, Harappa, Dholavira and Lothal; Chola dynasty sponsored famous towns like Thanjavur, Nagapattinam, Kanchipuram and Madurai; Why India could not become urbanized during the medieval period? Indian knowledge systems in town planning, 'nagara Vaastu Shastra', 'Mansara Shilpa Shastra', Indigenous Settlement Patterns, Traditional Planning systems.	8 hrs	AT6-1, AT6-2
II	City In History	Settlement Characteristics of Different Early Civilizations (Greek, Roman, Mesopotamian, Ancient India, Medieval Europe and India), Impact of Renaissance and Industrial Revolution on City Form and Structure; Concepts of Utopia, Garden City, City Beautiful and Linear City, Town planning in ancient India; Medieval, pre-independence, post-independence cities	8 hrs	AT6-2, AT6-4

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MPLN106 – PLANNING HISTORY AND THEORY

COURSE CODE	COURSE CORE	COURSE TYPOLOGY	COURSE NAME	TEACHING & EVALUATION SCHEME						L	T	S	CREDITS
				Marks	THEORY			STUDIO					
					Two Term Exam	Teachers Assessment*	End Sem University Exam	Internal Assessment	External Viva				
MPL N106	PC	THEORY	PLANNING HISTORY AND THEORY	Max	20	20	60	0	0	2	0	0	2
				Min	9	9	27						

Legends: L - Lecture; T - Tutorial/Teacher Guided Student Activity; S – Studio; C - Credit; *Teacher Assessment shall be based following components: Quiz/Assignment/ Project/Participation in Class, given that no component shall exceed more than 10 marks.

Unit	Syllabus: Topic	Subtopic	Teaching Hours	Assessment Tools
III	Theories of planning	Concentric Zone Theory, Sector Theory, and Multiple Nuclei Theory, Land Use and Land Value Theory of William Alonso; From the world city to the global city. Contributions to Modern City Planning Thoughts by Lewis Mumford, Patrick Geddes, Chadwick, Peter Hall, Jane Jacobs, Manuel Castells and Others.	8 hrs	AT6-3, AT6-5
IV	Contemporary planning practices	Emerging Concepts: global city, inclusive city, safe city, etc.; City of the future and future of the city; Shadow cities, divided cities; Globalization and The New Economic Geography; Global Cities; Impact of Global Negotiations/Inter Country Protocols; Contemporary Sustainable City Development Concepts; Smart City	6 hrs	AT6-4, AT6-5, AT6-6

REFERENCE BOOKS / REPORTS

1. Allmendinger, P. (2017) Planning Theory, Macmillan, London. Third Edition.
2. Buch, M. N. (1987) Planning the Indian City, Vikas Publishing, New Delhi.
3. Fainstein, S.S. and De Filippis, J. (Eds.) (2016) Readings in Planning Theory, Wiley, London. Fourth Edition.
4. Friedmann, J. (1987) Planning in the Public Domain, Princeton University Press, Princeton. Second Edition.
5. Gopu, N. (2001) The Politics of the Urban Poor in Early Twentieth - Century India, Cambridge University Press, Cambridge.
6. Healey, P. (2010) Making Better Places: The planning project in the twenty-first century, Palgrave Macmillan, London.
7. King, A. (1976) Colonial Urban Development: Culture, Social Power, and Environment, Routledge and Kegan Paul, New York.
8. Kumar, A., Sanjeev, V., and Prakash, P. (2020) City Planning in India, 1947-2017, Routledge, New York.
9. Jain, A.K. (2021), Town Planning, Khanna Publishing House, New Delhi.
10. Readings in Planning Theory, Susan Fainstein and Scott Campbell, Blackwell Publishers, 2003
11. Urban Planning Theory and Practice, M. Pratap Rao, CBS Publisher & Distributors Pvt. Ltd., 2012
12. Cities of the World: World Regional Urban development, Brunn S.D. et al., Rowman & Littlefield Publishers, 2011
13. Urban and Regional Planning Since Independence : Retrospect and Prospect : Technical papers, National Town and Country Planners Congress, Mysore, Ministry of Urban Affairs and Employment, 2012

SUGGESTED E-RESOURCES / RESOURCES

1. URDPFI Guidelines and Planning Reports
2. Historical Urban Settlement Databases
3. Smart City Mission Resources
4. Planning Theory Journals and Publications
5. Ancient Indian Planning Literature Resources
6. Urban Planning Archives and Digital Libraries

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MPLN106 – PLANNING HISTORY AND THEORY

COURSE CODE	COURSE CORE	COURSE TYPOLOGY	COURSE NAME	TEACHING & EVALUATION SCHEME						L	T	S	CREDITS
				Marks	THEORY			STUDIO					
					Two Term Exam	Teachers Assessment*	End Sem University Exam	Internal Assessment	External Viva				
MPL N106	PC	THEORY	PLANNING HISTORY AND THEORY	Max	20	20	60	0	0	2	0	0	2
				Min	9	9	27						

Legends: L - Lecture; T - Tutorial/Teacher Guided Student Activity; S – Studio; C - Credit; *Teacher Assessment shall be based following components: Quiz/Assignment/ Project/Participation in Class, given that no component shall exceed more than 10 marks.

COURSE ARTICULATION MATRIX (MAPPING OF COS WITH POS)

Course Outcomes	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
CO1	2	-	2	1	-	1	1	-	-	1	-	2
CO2	3	2	3	-	1	2	2	1	-	1	-	3
CO3	2	3	3	3	2	1	1	-	1	3	1	2

ASSESSMENT SCHEME

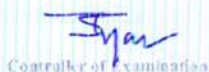
Component	Method	COs Mapped	Weightage
Quiz / Test	Written Examination	CO1	10%
Historical Planning Analysis Assignment	Historical and Comparative Analysis	CO1	15%
Theory Interpretation Exercise	Planning Theory Analysis	CO2, CO3	20%
Case Study Review	Historical Planning Case Study	CO2	15%
Presentation	Theory and Concept Presentation	CO3	10%
End Semester Examination	Theory Examination	CO1, CO2, CO3	30%

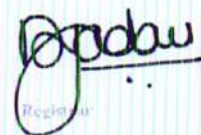
EVALUATION RUBRICS

Criteria	Excellent (4)	Good (3)	Average (2)	Poor (1)
Historical Understanding	Comprehensive and insightful understanding	Good historical understanding	Basic understanding	Weak understanding
Theory Interpretation	Strong analytical interpretation	Good interpretation	Limited interpretation	Weak interpretation
Comparative Analysis	Critical and comparative understanding	Good comparative analysis	Basic comparison	Weak analytical ability
Application of Planning Concepts	Effective linkage with planning practice	Good application	Limited application	Weak application
Presentation Skills	Clear and confident presentation	Good communication	Average presentation	Poor presentation


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MPLN107 – HOUSING AND ENVIRONMENTAL PLANNING

MPLN107: HOUSING AND ENVIRONMENTAL PLANNING

COURSE CODE	COURSE CORE	COURSE TYPOLOGY	COURSE NAME	TEACHING & EVALUATION SCHEME						L	T	S	CREDITS	
				Marks	THEORY			STUDIO						
					Two Term Exam	Teachers Assessment*	End Sem University Exam	Internal Assessment	External Viva					
MPLN 107	PC	THEORY	HOUSING AND ENVIRONMENTAL PLANNING	Max	20	20	60	0	0	2	0	0	2	
				Min	9	9	27							

Legends: L - Lecture; T - Tutorial/Teacher Guided Student Activity; S – Studio; C - Credit; *Teacher Assessment shall be based on following components: Quiz/Assignment/ Project/Participation in Class, given that no component shall exceed more than 10 marks.

COURSE INFORMATION

Prerequisites : Basic understanding of urban planning and settlement systems

Mode of Delivery: Lectures, analytical exercises, policy reviews, case studies and presentations

COURSE EDUCATIONAL OBJECTIVES (CEOs):

S. No.	CEO	Bloom's Level	Domain
CEO1	The first part of this course provides an understanding about the nature of housing problems, and various programmes and policies initiated to deal with these problems in Indian cities and villages.	Understand (L2)	Cognitive
CEO2	The second part focuses on the significance of physical environment and its various parameters as they relate of plan preparation and implementation processes.	Analyse (L4)	Cognitive

COURSE ALIGNMENT WITH UNSDG

This course contributes to SDG 11: Sustainable Cities and Communities, SDG 13: Climate Action SDG 14: Life below Water and SDG 15: Life on Land through sustainable housing practices, environmental planning, climate-responsive planning and ecosystem-based development approaches.

COURSE OUTCOMES

After completion of this course the students are expected to be able to demonstrate

CO	Outcome	Bloom	SDG
CO1	To investigate and analyse the nature of housing problem in India.	Analyse (L4)	SDG 11
CO2	To examine the housing policy and programmes in India.	Evaluate (L5)	SDG 11
CO3	To analyse the eco-system and resources and their importance for planning.	Analyse (L4)	SDG 13, SDG 15
CO4	To appraise the environment parameters for consideration while planning.	Evaluate (L5)	SDG 11, SDG 13

COURSE FOCUS:

1. Housing policies and programmes
2. Housing typologies and management
3. Environmental planning principles

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MPLN107 – HOUSING AND ENVIRONMENTAL PLANNING

COURSE CODE	COURSE CORE	COURSE TYPOLOGY	COURSE NAME	TEACHING & EVALUATION SCHEME						L	T	S	CREDITS	
				Marks	THEORY			STUDIO						
					Two Term Exam	Teachers Assessment*	End Sem University Exam	Internal Assessment	External Viva					
MPLN 107	PC	THEORY	HOUSING AND ENVIRONMENTAL PLANNING	Max	20	20	60	0	0	2	0	0	2	
				Min	9	9	27							

Legends: L - Lecture; T - Tutorial/Teacher Guided Student Activity; S – Studio; C - Credit; *Teacher Assessment shall be based on following components: Quiz/Assignment/ Project/Participation in Class, given that no component shall exceed more than 10 marks.

4. Ecology and ecosystems
5. Sustainable development and climate change
6. Environmental impact assessment and management

COURSE OVERVIEW:

This course introduces students to housing and environmental planning concepts relevant to urban and regional planning practice. The course focuses on housing policies, housing finance, housing typologies, slum improvement, sustainable housing practices and environmental planning principles. It also familiarizes students with ecosystem concepts, environmental degradation, climate change and sustainable development approaches relevant to planning processes.

TEACHING PEDAGOGY:

Code	Method
T1	Lectures and classroom discussions
T2	Housing policy and programme reviews
T3	Environmental analysis exercises
T4	Case studies and comparative analysis
T5	Sustainability and ecosystem assessment exercises
T6	Presentations and analytical discussions

ASSESSMENT TOOLS:

Code	Tool
AT7-1	Quiz / Test
AT7-2	Housing Analysis Assignment
AT7-3	Policy Review Exercise
AT7-4	Environmental Analysis Exercise
AT7-5	Sustainable Planning Presentation
AT7-6	End Semester Examination

COURSE CONTENTS:

Unit	Syllabus: Topic	Subtopic	Teaching Hours	Assessment Tools
I	Housing Policy, Finance And Planning Framework	Housing scenario in India, need and importance of housing, public intervention in housing sector, national housing policies and reforms, legal and institutional framework for housing, land management and land issues, housing affordability, housing finance systems and subsidies, housing delivery mechanisms, role of technology in housing development, housing planning process, assessment of housing needs, physical and social infrastructure requirements, and housing strategies for cities and towns.	6 hrs	AT7-1, AT7-2

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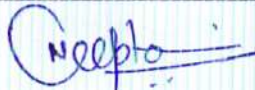
MPLN107 – HOUSING AND ENVIRONMENTAL PLANNING

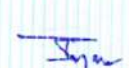
COURSE CODE	COURSE CORE	COURSE TYPOLOGY	COURSE NAME	TEACHING & EVALUATION SCHEME						L	T	S	CREDITS
				Marks	THEORY			STUDIO					
					Two Term Exam	Teachers Assessment ⁴	End Sem University Exam	Internal Assessment	External Viva				
MPLN 107	PC	THEORY	HOUSING AND ENVIRONMENTAL PLANNING	Max	20	20	60	0	0	2	0	0	2
				Min	9	9	27						

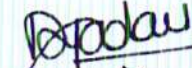
Legends: L - Lecture; T - Tutorial/Teacher Guided Student Activity; S – Studio; C - Credit; *Teacher Assessment shall be based on following components: Quiz/Assignment/ Project/Participation in Class, given that no component shall exceed more than 10 marks.

Unit	Syllabus: Topic	Subtopic	Teaching Hours	Assessment Tools
II	Housing Typologies, Development And Management	Formal housing typologies including group housing, cooperative housing, institutional housing, rental housing, hostels and service apartments; informal settlements and slums, slum improvement and rehabilitation, housing for economically weaker sections, special housing needs including old age homes, housing project formulation and implementation, stakeholders in housing development, housing management systems, maintenance and governance of housing projects, housing in disaster-prone areas, sustainable and resilient housing practices, and emerging trends in housing development. Critical Review of Current housing programmes, National Housing Policy, Various State Housing Policies and Affordable Housing Policies, PMAY Housing for All	8 hrs	AT7-2, AT7-3
III	Man And Environment	Concept of Ecology; Fundamentals of Ecosystem—Its Structure and Function, Changing Perspectives in Man-Environment Relationship with Focus on Resource Depletion and Pollution; Eco-Systems and Their Relevance to Environment; Resources and Human Settlements; Ecosystem Services Focus on Issues of Population, Urbanization, Resource Depletion and Pollution; Types of Pollutions and their parameters, Environmental Degradation (Environmental Concerns and Challenges) and Its Impact on Various Ecosystems; Planning for Environmentally Sensitive Zones (Resources Availability, Settlements Pattern, Problems and Potentials, Regulating Mechanisms for Development);	6 hrs	AT7-4, AT7-5
IV	Sustainable Development	Sustainable Development; Urban Ecology; Urban Eco System Approach; Climate Change and Its Linkages with Human Settlements; Brief Introduction of Key Concepts of Climate Change, Sustainable Development (Concept and Methods), Sustainable Development Goals and their importance. Government's 8 missions under the National Action Plan on Climate Change. Tools and Techniques for Environmental Planning and Management-Introduction to Environmental Impact Assessment, Environmental Policies and Initiatives Including Policies, Strategies, Protocols, Treaties;	8 hrs	AT7-4, AT7-5, AT7-6


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MPLN107 – HOUSING AND ENVIRONMENTAL PLANNING

COURSE CODE	COURSE CORE	COURSE TYPOLOGY	COURSE NAME	TEACHING & EVALUATION SCHEME						L	T	S	CREDITS
				Marks	THEORY			STUDIO					
					Two Term Exam	Teachers Assessment*	End Sem University Exam	Internal Assessment	External Viva				
MPLN 107	PC	THEORY	HOUSING AND ENVIRONMENTAL PLANNING	Max	20	20	60	0	0	2	0	0	2
				Min	9	9	27						

Legends: L - Lecture; T - Tutorial/Teacher Guided Student Activity; S - Studio; C - Credit; *Teacher Assessment shall be based on following components: Quiz/Assignment/ Project/Participation in Class, given that no component shall exceed more than 10 marks.

REFERENCE BOOKS / REPORTS

Housing:

1. Housing: Changing Needs and New Directions, V. Gandotra, M. Shukul, N. Jaju and N. Jaiswal, Authors press
2. Housing and Urbanisation- A study of India, Cedric Pugh, Sage Publications, New Delhi
3. Housing Laws in India- Problems and Remedies, P.K.Sarkar, Eastern Law House Private Ltd.
4. National Housing Policy, GOI, New Delhi
5. Reading Material on Housing, K. Thomas Poulse, ITPI, India
6. Understanding Housing Policy, Brain Lund, The Policy Press, Great Britain
7. Urban Development and Housing in India- 1947 to 2007, Rishi Muni Dwivedi, New Century Publications
8. Housing Policies and Related Acts and Schemes of Government of India
9. Holding Their Ground: Secure Land Tenure for the Urban Poor in Developing Countries, Durand-Lasserve, Royston L, Earthscan Publication, UK
10. Plotting, Squatting, Public Purpose and Politics, Land Market Development, Low Income Housing and Public Intervention in India, Baken, Robert Jan, King's SOAS Studies in Development Geography
11. Shadow Cities: A Billion Squatters, a New Urban World, Neuwirth, Robert Taylor & Francis Group
12. The Urban Housing Manual: Making Regulatory Frameworks Work for the Poor, Payne, Geoffrey and Majale, Michael, Earthscan Publication, UK

Environment:

14. Fundamentals of Ecology, Odum, E.P., Barrett, G.W., Brewer, R., Thomson Brooks
15. Ecology, Impact Assessment and Environmental Planning, Westman W., John Wiley and Sons
16. Integrated Environmental Planning, James K. Lein, Blackwell Publishing
17. AITP Reader on Ecology & Resource Development, AITP
18. AITP Reading Material on Environmental Planning and Design, Prof A. K. Maitra, SPA Delhi
19. Environmental Engineering, Howard S. Peavy, Tata Mc Grawhill
20. Ecology and Equity - The Use and Abuse of Nature in Contemporary India, Gadgil, M. and Guha, R., Penguin, 1995
21. Sustainable Development Goals and Mapping of CSS and Ministries of Government of India, NITI Aayog, New Delhi

SUGGESTED E-RESOURCES / RESOURCES

1. PMAY and National Housing Policy Resources
2. Climate Change and SDG Portals
3. Environmental Planning and EIA Guidelines
4. Housing and Urban Development Reports
5. Sustainable Development and Ecology Journals
6. MoHUA and NITI Aayog Publications

COURSE ARTICULATION MATRIX (MAPPING OF COS WITH POS)

Course Outcomes	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
CO1	3	3	2	3	-	2	-	-	1	-	1	2
CO2	1	3	2	3	-	2	2	2	1	2	1	2
CO3	2	3	3	1	2	2	3	-	1	-	-	2
CO4	2	3	3	3	-	2	3	2	1	3	-	2

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MPLN102 – PLANNING TECHNIQUES

COURSE CODE	COURSE CORE	COURSE TYPOLOGY	COURSE NAME	TEACHING & EVALUATION SCHEME						L	T	S	CREDITS
				Marks	THEORY			STUDIO					
					Two Term Exam	Teachers Assessment*	End Sem University Exam	Internal Assessment	External Viva				
MPLN 102	PC	THEORY	PLANNING TECHNIQUES	Max	20	20	60	0	0	2	0	0	2
				Min	9	9	27						

3. GIS and Remote Sensing Platforms

Legends: L - Lecture; T - Tutorial/Teacher Guided Student Activity; S – Studio; C - Credit; *Teacher Assessment shall be based following components: Quiz/Assignment/ Project/Participation in Class, given that no component shall exceed more than 10 marks.

4. Planning Support Systems and Statistical Software

5. Government Planning Reports and Spatial Datasets

COURSE ARTICULATION MATRIX (MAPPING OF COS WITH POS)

Course Outcomes	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
CO1	2	2	2	1	3	-	-	-	1	1	-	2
CO2	2	3	2	3	2	1	-	1	-	2	-	2
CO3	3	3	2	3	3	3	1	3	3	-	1	3

ASSESSMENT SCHEME

Component	Method	COs Mapped	Weightage
Quiz / Test	Written Examination	CO1	10%
Mapping Exercise	Graphical and Mapping Work	CO2	15%
Survey Design Assignment	Survey and Questionnaire Preparation	CO3	15%
Data Analysis Exercise	Statistical and Spatial Analysis	CO3,	20%
Presentation	Presentation and Interpretation	CO2,	10%
End Semester Examination	Theory Examination	CO1, CO2, CO3	30%

EVALUATION RUBRICS

Criteria	Excellent (4)	Good (3)	Average (2)	Poor (1)
Mapping Skills	Accurate and professional maps	Minor errors in maps	Basic mapping quality	Poor mapping skills
Survey Design	Comprehensive and relevant survey design	Good survey structure	Limited survey quality	Weak survey design
Data Analysis	Insightful and accurate analysis	Good interpretation	Basic analysis	Incorrect analysis
Presentation	Clear and organized presentation	Good communication	Average presentation	Poor presentation
Application of Techniques	Effective application of planning techniques	Good application	Limited application	Weak application

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MPLN107 – HOUSING AND ENVIRONMENTAL PLANNING

COURSE CODE	COURSE CORE	COURSE TYPOLOGY	COURSE NAME	TEACHING & EVALUATION SCHEME						L	T	S	CREDITS
				Marks	THEORY			STUDIO					
					Two Term Exam	Teachers Assessment*	End Sem University Exam	Internal Assessment	External Viva				
MPLN 107	PC	THEORY	HOUSING AND ENVIRONMENTAL PLANNING	Max	20	20	60	0	0	2	0	0	2
				Min	9	9	27						

Legend: * - Guided Student Activity; S - Studio; C - Credit; *Teacher Assessment shall be based on the following criteria: *Teacher Assessment shall be based on the following criteria:

Legends: L - Lecture; T - Tutorial/Teacher Guided Student Activity; S – Studio; C - Credit; *Teacher Assessment shall be based on following components: Quiz/Assignment/ Project/Participation in Class, given that no component shall exceed more than 10 marks.

ASSESSMENT SCHEME

Component	Method	COs Mapped	Weightage
Quiz / Test	Written Examination	CO1	10%
Housing Analysis Assignment	Housing Problem and Policy Analysis	CO1, CO2	20%
Policy Review Exercise	Housing Programme Review	CO2	15%
Environmental Analysis Exercise	Ecosystem and Environmental Assessment	CO3	20%
Sustainable Planning Presentation	Climate and Sustainability Presentation	CO3, CO4	10%
End Semester Examination	Theory Examination	CO1, CO2, CO3, CO4	25%

EVALUATION RUBRICS

Criteria	Excellent (4)	Good (3)	Average (2)	Poor (1)
Housing Analysis	Comprehensive and critical understanding	Good analytical understanding	Basic analysis	Weak analysis
Policy Interpretation	Strong understanding of housing policies	Good interpretation	Limited interpretation	Weak interpretation
Environmental Understanding	Insightful ecosystem and environmental analysis	Good environmental understanding	Basic understanding	Weak analysis
Sustainable Planning Concepts	Strong integration of sustainability principles	Good integration	Limited application	Weak application
Presentation Skills	Clear and technically sound presentation	Good communication	Average presentation	Poor presentation

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