



Shri Vaishnav Vidyapeeth Vishwavidyalaya, Indore

Shri Vaishnav Institute of Architecture

M.Plan in Urban Planning (2021-2023)

SEMESTER 1

MPLN 101 - PLANNING STUDIO - I

COURSE CODE	Category	COURSE NAME	TEACHING & EVALUATION SCHEME								
			THEORY			PRACTICAL		L	T	P	CRED ITS
			END SEM University Exam	Two Term Exam	Teachers Assessment*	END SEM University Exam	Teachers Assessment*				
MPLN 101	P	PLANNING STUDIO - I	-	-	-	250	250	-	-	12	12

Legends: L - Lecture; T - Tutorial/Teacher Guided Student Activity; P – Practical; 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 Educational Objectives (CEOs):

The studio is an introduction to urban planning, aiming at bringing together all the students of different backgrounds to a common platform. The objective of the studio is to understand urban structure, form and functioning at different scales in a city through various planning related. The course further gives emphasis on site visits related with planning related exercise.

Course Outcomes (COs):

After completion of this course the students are expected to be able to demonstrate following knowledge, skills and attitudes.

- Working knowledge of how actual planning projects are functioning.
- Collaboratively develop planning solutions to real situations confronted by communities.
- Ability to carry out policy analysis and policy planning.

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Syllabus

Unit I

48 HRS

GIS Applications

Coordinate system and geo-coding, vector data structure and algorithms, raster data structure and algorithms, data bases for GIS – concepts, error modelling and data uncertainty, decision making through GIS, constructing spatial data infrastructure and spatial information system; National Urban Information system.

Unit II

40 HRS

Remote Sensing

Why remote sensing, aerial and satellite remote sensing, principles of aerial remote sensing, Aerial photo-interpretation, photogrammetry, stereovision, measurement of heights / depths by relief displacement and parallax displacement. Principles of satellite remote sensing, spatial, spectral, temporal resolutions. Applications in planning, population estimation, identification of squatter / unauthorized areas, sources of pollution, etc., spatial resolution related to level of Planning

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Unit-III

40 HRS

Demography

Sources of demographic data in India, Settlement type, growth pattern and structure: urban settlement analysis, Concentration: spatial, vertical and size, peri-urban sprawl, economic base; Rural Settlements – Size, occurrence and character, transformation, Policies towards various size class settlements.

Population structure and composition – Age, sex, gender, marital status, caste, religion, literacy level, etc.; Age - sex ratio, structure, pyramid; dependency ratio; occupational structure; Fertility; mortality, migration analysis, natural growth of population, migration and its implications in spatial planning;

Unit-IV

40 HRS

Statistical Applications

General concepts - statistical interference, population and samples variables, Sampling, simple statistical models, Measures of central Tendency, Measures of Dispersion, Measures of shape of distribution, Correlation and regression

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List of Experiments:

Area Appreciation (individual assignment)

The aim of the area appreciation 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. 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.

The following planning issues at area level should be identified:

- Review of the Master Plan / Zonal / Area plan in relation to the selected areas.
- Appreciation / Analysis of ward level data.
- Perception of areas in terms of legal / illegal / authorized / unauthorized, Slums, Urban Aesthetics.
- Social Categorizations of people - Type of population living, people's perception about area and its planning problems.
- Land use including Agriculture land and land use conflicts, extent (%) of broad land use such as commercial, industrial, residential, institutional and recreational.
- 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.

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- 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.
- Environmental Issues: Open Spaces – Availability and extent of open space to built-up area, garbage disposal, encroachment (through photographic evidences and sketches).
- Locating the study area in the zone, city and regional context with respect to all the above aspects.

Site Planning (individual assignment)

Site planning is a process whereby the optimum utilization of potential of site is considered recognizing the constraints the site has. It uses 3-dimensional space of the site and the associated locational advantages, human activities and the regulations that are assigned to a particular site.

The site is developed using a set of standards / norms in a given context which varies from location to location. A student is expected to understand the intricacies and interface between various variables such as soil conditions, topography, environmental dimensions, location, spatial standards applicable to the site, etc.

City Development Plan (Group assignment)

A City is a multi-dimensional, dynamic and a futuristic space. Understanding city involves appreciating this multi direction, and include them in the city making process. A job of physical planner does not merely understand the current conflict in development but to emerge out of this and to come out with a vision for the city. To arrive at this vision, a planner needs to understand the dynamics of various components of the city and how and what level interventions can be made to achieve that vision.

A group of students are expected to study a city in terms its present problems and issues and project a futuristic vision in terms of scenario building.

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SEMESTER 1

MPLN 102 - PLANNING HISTORY AND THEORY

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			THEORY			PRACTICAL		L	T	P	CRED ITS
			END SEM University Exam	Two Term Exam	Teachers Assessment*	END SEM University Exam	Teachers Assessment*				
MPLN 102	TH	PLANNING HISTORY AND THEORY	60	20	20	-	-	2	-	-	2

Legends: L - Lecture; T - Tutorial/Teacher Guided Student Activity; P – Practical; C - Credit;

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Course Educational Objectives (CEOs):

The course aims at understanding the key concepts in the history of urban planning in order to develop the ability to compare and position current planning ideas to the historical context. The objective is to develop an understanding of common planning tools, their historical development, assumptions and mechanisms.

Course Outcomes (COs):

After completion of this course the students are expected to be able to demonstrate following knowledge, skills and attitudes.

- In-depth knowledge about existing planning models and their range of applications.
- Knowledge of existing objectives of planning practices across the world.

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MPLN 102 - PLANNING HISTORY AND THEORY

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Syllabus

Unit I

10HRS

Definitions and Objectives of Planning

- Definitions of town and country planning; Orthodoxies of planning; Goal formulation, objective, scope, limitations
- Sustainability and rationality in planning; Components of sustainable urban and regional development.

Unit II

10HRS

Planning History

- Town planning in ancient India; Medieval, pre-independence, post-independence cities.
- Concepts of landmark, axis, orientation; City form as a living space; City as an organism: a physical, social, economic and political entity; City as a political statement: New Delhi, Chandigarh, Washington D.C. Brasilia etc.;
- Dynamics of the growing city, impact of industrialization and urbanization, metropolis and megalopolis.

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Unit-III

12 HRS

Theories of City Development and Planning Theories

- Theories of city development including Concentric Zone Theory, Sector Theory, Multiple Nuclei Theory and other latest theories;
- Land use and land value theory of William Alonso; Ebenezer Howard's Garden City Concept; and Green Belt Concept;
- Contribution of individuals to city planning: Lewis Mumford, Patrick Geddes, Peter Hall, etc.;
- Emerging Concepts: global city, inclusive city, safe city, etc.; City of the future and future of the city; Shadow cities, divided cities;

Unit-IV

10 HRS

Theories of planning

Models of planning: Advocacy and Pluralism in Planning; Systems approach to planning: rationalistic and incremental approaches, mixed scanning and middle range planning; Equity planning; Political Economy Model; Types of development plans, plan making process.

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References:

- Allmendinger, P. (2017) Planning Theory, Macmillan, London. Third Edition.
- Buch, M. N. (1987) Planning the Indian City, Vikas Publishing, New Delhi.
- Fainstein, S.S. and DeFilippis, J. (Eds.) (2016) Readings in Planning Theory, Wiley, London. Fourth Edition.
- Friedmann, J. (1987) Planning in the Public Domain, Princeton University Press, Princeton. Second Edition.
- Goptu, N. (2001) The Politics of the Urban Poor in Early Twentieth - Century India, Cambridge University Press, Cambridge.
- Healey, P. (2010) Making Better Places: The planning project in the twenty-first century, Palgrave Macmillan, London.
- King, A. (1976) Colonial Urban Development: Culture, Social Power, and Environment, Routledge and Kegan Paul, New York.
- Kumar, A., Sanjeev, V., and Prakash, P. (2020) City Planning in India, 1947-2017, Routledge, New York.

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Other References:

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- Planning Theory, Allmendinger Philip, Palgrave MacMillan
- Cities of the World: World Regional Urban development, Brunn S.D.et all.
-
-
- City Assembled: The Elements of Urban form through History, Kostof Spiro, Thames and Hudson
- Contemporary Urban Planning, Levy John M, Longman
- Cities of Tomorrow: An Intellectual History of Urban Planning and Design in the Twentieth Century, Hall Peter
- Urban and Regional Planning Since Independence: Retrospect and Prospect: Technical papers, National Town and Country Planners Congress, Mysore, Ministry of Urban Affairs and Employment
- Urban Planning: Theory and Practice, Rao M.P., CBS Publishers
- The Oxford Handbook of Urban Planning, Weber Rachel et all, Oxford University Press
- Urban Pattern: City Planning and Design, Gallion, Arthur B. and Eisner Simon, CBS Publishers
- Planning Theory, FALUDI, ANDREAS
- Landuse Planning: Techniques of Implementation, PATTERSON, T WILLIUM
- Planning Theory, Techniques ITPI Reader volume

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SEMESTER 1

MPLN 103 - ECONOMICS AND URBAN SOCIOLOGY

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MPLN 103	TH	ECONOMICS AND URBAN SOCIOLOGY	60	20	20	-	-	2	-	-	2

Legends: L - Lecture; T - Tutorial/Teacher Guided Student Activity; P – Practical; C - Credit;

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Course Educational Objectives (CEOs):

The course aims at introducing the concepts of Economics and Urban Sociology which are essential inputs to the planning profession. To develop knowledge to identify and address the needs of various segments of the population so as to ensure that all have an equal opportunity to both change and benefit.

Course Outcomes (COs):

After completion of this course the students are expected to be able to demonstrate following knowledge, skills and attitudes.

- Incorporate the knowledge of different planning theories and paradigms in approaching socio-economic planning process.
- Address planning needs of different segments of the population and their distinctive issues and needs with respect to living and working in the urban environment.

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Syllabus

Unit I

14 HRS

Culture and the City

Learning how culture and the city are folded into each other and how they shape each other; Man and environment relationship; Traditional patterns and trends of change in the Indian society; Concept of social structure and agency, culture and social institutions; Relations between social structures and spatial structures; Social aspects of housing and social problems in slums.

Unit II

10 HRS

Economic Resources

Defining economic resources, typology of goods, production economics, processes, laws, products and costs; Economies of scale including external economies; Valuation and typology of markets; and other macro-economic concepts.

Unit-III

8 HRS

Economic Analysis

Basics of economic analysis; Economic principles and land uses; Relationship between economic rent, land use patterns and land values.

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Unit-IV

12 HRS

Land and Real Estate Markets

Understanding the institution of the private property; Development of land and real estate and property markets; Financial balance sheet of land development; Private ownership and social control over land.

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MPLN 103	TH	ECONOMICS AND URBAN SOCIOLOGY	60	20	20	-	-	3	-	-	3

Legends: L - Lecture; T - Tutorial/Teacher Guided Student Activity; P – Practical; C - Credit;

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References:

Urban Sociology

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- Sociology, John J. Macionis, Pearson
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- Urban Problems in Sociological Perspective, Shannon, Thomas R., Waveland Press Inc
- The Metropolis and Mental Life, Simmel, Georg, New York: Free Press
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- Sociological Thought, Abrahm M. F. and Morgan J. H., MacMillan India, Madras
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- Capability and Well-Being, Sen, Amartya and M. Nussbaum. Oxford Clarendon Press
- Inclusive Growth In India, R.U. Singh A.K. Thakur, Deep and Deep Publications
- Sen's Capability Approach and Gender Inequality: Selecting Relevant Capabilities. Feminist Economics Robeyns, Ingrid
- Planning a Barrier Free Environment, Office of the Chief Commissioner for Persons with Disabilities, India
- Social areas in cities: Spatial processes and form / HERBART, D T
- Social Theory for Planning / NAILY, JOE

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M.Plan in Urban Planning (2021-2023)

MPLN 103 - ECONOMICS AND URBAN SOCIOLOGY

COURSE CODE	Category	COURSE NAME	TEACHING & EVALUATION SCHEME								
			THEORY			PRACTICAL		L	T	P	CREDITS
			END SEM University Exam	Two Term Exam	Teachers Assessment*	END SEM University Exam	Teachers Assessment*				
MPLN 103	TH	ECONOMICS AND URBAN SOCIOLOGY	60	20	20	-	-	2	-	-	2

Legends: L - Lecture; T - Tutorial/Teacher Guided Student Activity; P – Practical; 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.

References:

Economics:

- Economics, Paul A. Samuelson et all, Tata Mc Graw Hill Publication
- Micro Economics, Dominick Salvatore, Schaum’s Outline Series, Mc Graw Hill
- Micro Economics, N.C. Ray, Macmillan
- Micro Economics, Anindya Sen, Oxford University Press
- Economics, Alec Chrystal et all, Oxford University Press
- Economics – An Analytical Introduction, Amos Witztum, Oxford University Press
- General Economics, Deepashree, Tata Mc Graw Hill Publication
- Economic Planning / AGARWAL, A.N. Economic Planning in Developing Countries / JOSEPH, BONGER
- Economic for Urban Social Planning / HENDON, WILLIUM. S
- Economics of Regional Development & Planning in Third World Countries / PATTANAIAK, S.C
- Economics – A Primer for India, G. Omkarnath, Orient Blackswan

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M.Plan in Urban Planning (2021-2023)

SEMESTER 1

MPLN 104 - PLANNING TECHNIQUES

COURSE CODE	Category	COURSE NAME	TEACHING & EVALUATION SCHEME								
			THEORY			PRACTICAL		L	T	P	CRED ITS
			END SEM University Exam	Two Term Exam	Teachers Assessment*	END SEM University Exam	Teachers Assessment*				
MPLN 104	TH	PLANNING TECHNIQUES	60	20	20	-	-	2	-	-	2

Legends: L - Lecture; T - Tutorial/Teacher Guided Student Activity; P – Practical; 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 Educational Objectives (CEOs):

The course aims at introducing techniques used at various stages in planning from preliminary to advanced and their methods of selection. It focuses on familiarising planning practices in India and their manifestations in urban and regional front. Appropriate Software applications in CAD and GIS would also be taught as part of this course.

Course Outcomes (COs):

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.

- Understanding of analytical tools and techniques for assessing condition of planning areas.
- Ability to examine existing standards of planning practices in India

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M.Plan in Urban Planning (2021-2023)

MPLN 104 - PLANNING TECHNIQUES

COURSE CODE	Category	COURSE NAME	TEACHING & EVALUATION SCHEME								
			THEORY			PRACTICAL		L	T	P	CRED ITS
			END SEM University Exam	Two Term Exam	Teachers Assessment*	END SEM University Exam	Teachers Assessment*				
MPLN 104	TH	PLANNING TECHNIQUES	60	20	20	-	-	2	-	-	2

Legends: L - Lecture; T - Tutorial/Teacher Guided Student Activity; P – Practical; 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.

Syllabus

Unit I

8 HRS

Scales and Preparation of Maps

Maps as a representation of reality, Elements of Maps; Graphical, linear and areal scales, Notations involving basic discipline of maps; Measurement of areas; Learning to prepare base maps; 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.

Unit II

8 HRS

Data for Planning and Socio-Economic Surveys

Data requirements for urban and regional planning; Sources of primary and secondary data; Quantitative and Qualitative methods of data collection, Validity and reliability of data, Questionnaire design, measurement scales and their applications, sampling techniques, types of socioeconomic surveys; Self-surveys, interviews, mailed questionnaires and observer participation, focus groups etc.

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M.Plan in Urban Planning (2021-2023)

MPLN 104 - PLANNING TECHNIQUES

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			END SEM University Exam	Two Term Exam	Teachers Assessment*	END SEM University Exam	Teachers Assessment*				
MPLN 104	TH	PLANNING TECHNIQUES	60	20	20	-	-	2	-	-	2

Legends: L - Lecture; T - Tutorial/Teacher Guided Student Activity; P – Practical; C - Credit;

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Unit-III

6 HRS

Physical Surveys

Techniques of conducting surveys for land use, building use, density, structural condition of buildings, heights of buildings, land utilization and physical features of land; Data requirements for various types of regional plans; Techniques for conducting regional surveys.

Unit-IV

10 HRS

Analysis and Presentation of Data

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.

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M.Plan in Urban Planning (2021-2023)

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MPLN 104	TH	PLANNING TECHNIQUES	60	20	20	-	-	2	-	-	2

Legends: L - Lecture; T - Tutorial/Teacher Guided Student Activity; P – Practical; 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-V

8 HRS

Demographic Methods

Methods of population forecasts and projections; Lorenz Curve, Ginni Ratio, Theil's index, ratios: urban – rural, urban concentration, metropolitan concentration; Location dimensions of population groups – social area and strategic choice approach – inter connected decision area analysis

References:

- 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.

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M.Plan in Urban Planning (2021-2023)

SEMESTER 1

MPLN 105 - INFRASTRUCTURE PLANNING

COURSE CODE	Category	COURSE NAME	TEACHING & EVALUATION SCHEME								
			THEORY			PRACTICAL		L	T	P	CRED ITS
			END SEM University Exam	Two Term Exam	Teachers Assessment*	END SEM University Exam	Teachers Assessment*				
MPLN 105	TH	INFRASTRUCTURE PLANNING	60	20	20	-	-	2	-	-	2

Legends: L - Lecture; T - Tutorial/Teacher Guided Student Activity; P – Practical; 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 Educational Objectives (CEOs):

The course is an introduction to infrastructure and transport planning design principles. The focus of infrastructure part of the course is on principles of design of utilities and services in urban and regional context and familiarising with Indian standards of design. The objective of transport planning is to familiarise the students with geometric design of road networks, traffic characteristics and transportation issues.

Course Outcomes (COs):

After completion of this course the students are expected to be able to demonstrate following knowledge, skills and attitudes.

- Knowledge relating to process of delivery of urban services and mitigating gaps in infrastructure provision.
- Ability to relate with experience-based understanding of planning theory and practice through exposure to concepts, methodologies, field techniques and applications.

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MPLN 105 - INFRASTRUCTURE PLANNING

COURSE CODE	Category	COURSE NAME	TEACHING & EVALUATION SCHEME								
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			END SEM University Exam	Two Term Exam	Teachers Assessment*	END SEM University Exam	Teachers Assessment*				
MPLN 105	TH	INFRASTRUCTURE PLANNING	60	20	20	-	-	2	-	-	2

Legends: L - Lecture; T - Tutorial/Teacher Guided Student Activity; P – Practical; 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 Educational Objectives (CEOs):

Syllabus

Unit I

8 HRS

Role of Infrastructure in Development

Elements of Infrastructure (physical, social, utilities and services); Basic definitions, concepts, significance and importance; Data required for provision and planning of urban networks and services; Resource analysis, provision of infrastructure, and land requirements; Principles of resource distribution in space; Types, hierarchical distribution of facilities, Access to facilities, provision and location criteria, Norms and standards, etc.

Unit II

8 HRS

Water Supply System

Water supply systems and networks, and network mapping; Water sources, quality and quantity requirements, and 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.

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M.Plan in Urban Planning (2021-2023)

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MPLN 105	TH	INFRASTRUCTURE PLANNING	60	20	20	-	-	2	-	-	2

Legends: L - Lecture; T - Tutorial/Teacher Guided Student Activity; P – Practical; 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-III

10 HRS

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; Strom water drainage networks, and network mapping; Estimations of sewer generation and network requirements; Elements of Solid Waste Management, Classification and Characteristics of Solid Wastes; Methods for Solid waste Collection, Storage, transportation and disposal; Processing and Treatment of Solid Wastes; Land Filling methods of Solid Waste Management.

Unit-IV

8 HRS

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.

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MPLN 105 - INFRASTRUCTURE PLANNING

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			THEORY			PRACTICAL		L	T	P	CRED ITS
			END SEM University Exam	Two Term Exam	Teachers Assessment*	END SEM University Exam	Teachers Assessment*				
MPLN 105	TH	INFRASTRUCTURE PLANNING	60	20	20	-	-	2	-	-	2

Legends: L - Lecture; T - Tutorial/Teacher Guided Student Activity; P – Practical; 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-V

8 HRS

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.

References:

- 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.
- Parkin, J. and Sharma, D. (1999) Infrastructure Planning, Thomas Jelford Publishing, London.

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M.Plan in Urban Planning (2021-2023)

MPLN 105 - INFRASTRUCTURE PLANNING

COURSE CODE	Category	COURSE NAME	TEACHING & EVALUATION SCHEME								
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			END SEM University Exam	Two Term Exam	Teachers Assessment*	END SEM University Exam	Teachers Assessment*				
MPLN 105	TH	INFRASTRUCTURE PLANNING	60	20	20	-	-	2	-	-	2

Legends: L - Lecture; T - Tutorial/Teacher Guided Student Activity; P – Practical; 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.

Other References:

- Regulation and the Management of Public Utilities, C. S. Morgan, Gale
- Water Supply Engineering, S. K. Garg, Khanna Publishers
- Manual on Sewerage and Sewage Treatment, CPHEEO
- Urban Planning Manual, AAILGS Reader
- Solid Waste Management, Krishana Gopi Sanoop P, Sasikumar K, Phi Learning
- Solid Waste Management, Dewan, Sudarshan, Discovery Publishing House
- Telecommunication Management Networks (TMN) Implementation, Amani Omer, Lambert Academic Publishers 6.
- Firefighting: Management and Techniques, Overton Frank, Inkata
- Water Supply Engineering: Environmental Engineering – I, Arun Kumar Jain, Ashok Kumar Jain, B. C. Punmia, Laxmi Publications

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M.Plan in Urban Planning (2021-2023)

SEMESTER 1

MPLN 106 - HOUSING AND ENVIRONMENTAL PLANNING

COURSE CODE	Category	COURSE NAME	TEACHING & EVALUATION SCHEME								
			THEORY			PRACTICAL		L	T	P	CRED ITS
			END SEM University Exam	Two Term Exam	Teachers Assessment*	END SEM University Exam	Teachers Assessment*				
MPLN 106	TH	HOUSING AND ENVIRONMENTAL PLANNING	60	20	20	-	-	2	-	-	2

Legends: L - Lecture; T - Tutorial/Teacher Guided Student Activity; P – Practical; 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 Educational Objectives (CEOs):

The course is an introduction to the issues of urban development relevant to housing and environmental planning in India. The objective of this course is to acquaint the students with the aspects related to housing scenario, needs, strategies, policies, etc. Also create an understanding of how decision making depends on the natural environment, social, political, economic and governance factors to achieve sustainable outcomes.

Course Outcomes (COs):

After completion of this course the students are expected to be able to demonstrate following knowledge, skills and attitudes.

- Knowledge about housing supply system and determining factors in India.
- Understanding of the impact of environmental planning on various planning techniques and practices.

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M.Plan in Urban Planning (2021-2023)

MPLN 106 - HOUSING AND ENVIRONMENTAL PLANNING

COURSE CODE	Category	COURSE NAME	TEACHING & EVALUATION SCHEME								
			THEORY			PRACTICAL		L	T	P	CREDITS
			END SEM University Exam	Two Term Exam	Teachers Assessment*	END SEM University Exam	Teachers Assessment*				
MPLN 106	TH	HOUSING AND ENVIRONMENTAL PLANNING	60	20	20	-	-	2	-	-	2

Legends: L - Lecture; T - Tutorial/Teacher Guided Student Activity; P – Practical; 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.

Syllabus

Unit I

8 HRS

Problem of Housing

Significance of housing in economic and social development; Basic Terms in housing, understanding concepts of Housing need, demand, supply and shortage; Housing data analysis from Census; Housing typologies; Housing development process; Nature of housing problem in urban and rural India, Public health issues in housing; Housing for the poor, houselessness in India, old housing,

Unit II

6 HRS

Housing Policy and Finance

Evolution of housing policy in India, Role of the government and private sector in housing; housing programmes for the poor and night shelters; Examples of housing projects, Introduction to housing finance; Affordability and Cost of housing; Role of Financing Organisation. Critical Review of Current housing programmes

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M.Plan in Urban Planning (2021-2023)

MPLN 106 - HOUSING AND ENVIRONMENTAL PLANNING

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			END SEM University Exam	Two Term Exam	Teachers Assessment*	END SEM University Exam	Teachers Assessment*				
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Legends: L - Lecture; T - Tutorial/Teacher Guided Student Activity; P – Practical; C - Credit;

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Unit-III

12 HRS

Environment:

Man and Environment - Changing Perspectives in Man-Environment Relationship with focus on Issues of Population, Urbanization, Resource Depletion and Pollution; Concept of Ecology; Fundamentals of Ecosystem—Its Structure and Function; 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); Tools and Techniques for Environmental Planning and Management- Introduction to Environmental Impact Assessment, Strategic Environment Assessment and Environmental Management Plans; Environmental Policies and Initiatives Including Policies, Strategies, Protocols, Treaties; Sustainable Development (Concept and Methods)

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Shri Vaishnav Institute of Architecture

M.Plan in Urban Planning (2021-2023)

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MPLN 106	TH	HOUSING AND ENVIRONMENTAL PLANNING	60	20	20	-	-	2	-	-	2

Legends: L - Lecture; T - Tutorial/Teacher Guided Student Activity; P – Practical; C - Credit;

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Unit-IV

10 HRS

Ecosystem, Urban Ecosystem and Quantitative Ecology

Eco-system and their relevance to environment, Impact of advanced agriculture methods, urbanization and industrialization on nature; Pollution, types, sources, remedies; Urban ecosystem approach, evolution and significance; Introduction to quantitative ecology, Identification of ecological parameters for planning at different levels, Site planning, Settlement planning, Regional planning. Data needs, formats for data collection Types of analysis required to evolve ecological parameters; Environmental impact assessment, Methods and their appraisal. preparation and analysis of resource inventories and resource matrices.

Unit-V

8 HRS

Resource Planning and Management

Finiteness of resources, examples of transfer from one resource to another in history in different parts of world; Development, utilization and conservation of resources, resource planning, integrated resource planning approach; Resource regions, their problems and potentials; Resource management, traditional and contemporary approaches. Resource development in India, some selected areas (energy, water, manpower, etc.); and Government's 8 missions under the National Action Plan on Climate Change.

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M.Plan in Urban Planning (2021-2023)

MPLN 106 - HOUSING AND ENVIRONMENTAL PLANNING

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MPLN 106	TH	HOUSING AND ENVIRONMENTAL PLANNING	60	20	20	-	-	2	-	-	2

Legends: L - Lecture; T - Tutorial/Teacher Guided Student Activity; P – Practical; C - Credit;

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References:

- Jain, A.K. (2019) Housing for all, Khanna Book Publishing Co., New Delhi.
- Cedric, P. (1990) Housing and Urbanisation: A Study of India, Sage, London.
- Hardoy, J.E. and Satterthwaite, D (1989) Squatter Citizen: Life in the Urban Third World, Routledge, London.
- Kohli, V.K. (2007) Housing Finance Agencies in India, Deep and Deep, New Delhi.
- Jenkins, P., Smith, H. and Wang, Y.P. (2007) Planning and Housing in the Rapidly Urbanizing World, Routledge, London

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M.Plan in Urban Planning (2021-2023)

MPLN 106 - HOUSING AND ENVIRONMENTAL PLANNING

COURSE CODE	Category	COURSE NAME	TEACHING & EVALUATION SCHEME								
			THEORY			PRACTICAL		L	T	P	CRED ITS
			END SEM University Exam	Two Term Exam	Teachers Assessment*	END SEM University Exam	Teachers Assessment*				
MPLN 106	TH	HOUSING AND ENVIRONMENTAL PLANNING	60	20	20	-	-	2	-	-	2

Legends: L - Lecture; T - Tutorial/Teacher Guided Student Activity; P – Practical; 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.

Other References:

Housing:

- Housing: Changing Needs and New Directions, V. Gandotra, M. Shukul, N. Jaju and N. Jaiswal, Authors press
- Housing and Urbanisation- A study of India, Cedric Pugh, Sage Publications, New Delhi
- Housing Laws in India- Problems and Remedies, P.K.Sarkar , Eastern Law House Private Ltd.
- National Housing Policy, GOI, New Delhi
- Reading Material on Housing, K. Thomas Poulouse, ITPI, India
- Understanding Housing Policy, Brain Lund, The Policy Press, Great Britain
- Urban Development and Housing in India- 1947 to 2007, Rishi Muni Dwivedi, New Century Publications
- Housing Policies and Related Acts and Schemes of Government of India
- Holding Their Ground: Secure Land Tenure for the Urban Poor in Developing Countries, Durand-Lasserve, Royston L, Earthscan Publication, UK

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			THEORY			PRACTICAL		L	T	P	CRED ITS
			END SEM University Exam	Two Term Exam	Teachers Assessment*	END SEM University Exam	Teachers Assessment*				
MPLN 106	TH	HOUSING AND ENVIRONMENTAL PLANNING	60	20	20	-	-	2	-	-	2

Legends: L - Lecture; T - Tutorial/Teacher Guided Student Activity; P – Practical; 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.

- 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
- Shadow Cities: A Billion Squatters, a New Urban World, Neuwirth, Robert Taylor & Francis Group
- The Urban Housing Manual: Making Regulatory Frameworks Work for the Poor, Payne, Geoffrey and Majale, Michael, Earthscan Publication, UK

Environment:

- Fundamentals of Ecology, Odum, E.P., Barrett, G.W., Brewer, R., Thomson Brooks,
- Ecology, Impact Assessment and Environmental Planning, Westman W., John Wiley and Sons
- Integrated Environmental Planning, James K. Lein, Blackwell Publishing
- AITP Reader on Ecology & Resource Development, AITP
- AITP Reading Material on Environmental Planning and Design, Prof A. K. Maitra, SPA Delhi
- Environmental Engineering, Howard S. Peavy, Tata Mc Grawhill

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M.Plan in Urban Planning (2021-2023)

SEMESTER 1

OPEN ELECTIVE

MPLN 107 (A) – ENVIRONMENT, ENERGY AND CLIMATE CHANGE

COURSE CODE	Category	COURSE NAME	TEACHING & EVALUATION SCHEME								
			THEORY			PRACTICAL		L	T	P	CRED ITS
			END SEM University Exam	Two Term Exam	Teachers Assessment*	END SEM University Exam	Teachers Assessment*				
MPLN 107(A)	T	ENVIRONMENT, ENERGY AND CLIMATE CHANGE	-	-	-	-	-	-	2	-	2

Legends: L - Lecture; T - Tutorial/Teacher Guided Student Activity; P – Practical; 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 Educational Objectives (CEOs):

The objective of this course is to initiate students with the issues of various types of natural and man-made disasters and impart techniques of mitigation and management.

- To develop a thorough understanding of the influence of urbanization and urbanized areas on ecosystems and environments.
- To develop skills to address issues of climate change through strategic development, policy-making and decision-making for urban and rural environments.

Course Outcomes (COs):

After the completion of the course the students should be able to have:

- Ability to examine issues of sustainable planning and climate change
- Understanding to interpret findings presented in environmental impact assessments conducted for planning projects and assess the environmental, political, and policy implications of such findings.

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M.Plan in Urban Planning (2021-2023)

MPLN 107 (A) – ENVIRONMENT, ENERGY AND CLIMATE CHANGE

COURSE CODE	Category	COURSE NAME	TEACHING & EVALUATION SCHEME								
			THEORY			PRACTICAL		L	T	P	CRED ITS
			END SEM University Exam	Two Term Exam	Teachers Assessment*	END SEM University Exam	Teachers Assessment*				
MPLN 107	T	ENVIRONMENT, ENERGY AND CLIMATE CHANGE	-	-	-	-	-	-	2	-	2

Legends: L - Lecture; T - Tutorial/Teacher Guided Student Activity; P – Practical; 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.

Syllabus:

Unit I

12HRS

Environmental Management

- Environmental Impact Assessment, thresholds, indicators, audits,
- Environmental certification, lifecycle analysis,
- Environment and poverty links, environmental policy, Acts and regulations;
- Environmental education, participatory approaches, emerging concepts.
- Disaster classification, concepts, hazards, vulnerability, risks, human response to disaster, impacts

Unit II

03HRS

Energy, Climate change and Urban Development – Interface.

Unit III

09HRS

Energy Generation and Consumption.

- Energy Supply and Demand,
- Energy Consumption in cities,
- determinants of energy demand,
- Energy efficient development,

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MPLN 107 (A) – ENVIRONMENT, ENERGY AND CLIMATE CHANGE

COURSE CODE	Category	COURSE NAME	TEACHING & EVALUATION SCHEME								
			THEORY			PRACTICAL		L	T	P	CRED ITS
			END SEM University Exam	Two Term Exam	Teachers Assessment*	END SEM University Exam	Teachers Assessment*				
MPLN 107(A)	T	A. ENVIRONMENT, ENERGY AND CLIMATE CHANGE	-	-	-	-	-	-	2	-	2

Legends: L - Lecture; T - Tutorial/Teacher Guided Student Activity; P – Practical; 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 IV

12HRS

Energy Planning and Management, and Mitigation Adaptation to Climate Change.

- phenomenon of climate change,
- factors influencing climate change,
- impacts of climate change
- Compact city form,
- Transit oriented development.
- Mechanisms and measures for mitigating and adapting to climate change at various levels

Unit V

06HRS

Policies and Legislation Pertaining to Environment Management

- Plans, Policies and Strategies and Legislation at various levels

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MPLN 107 (A) – ENVIRONMENT, ENERGY AND CLIMATE CHANGE

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			THEORY			PRACTICAL		L	T	P	CRED ITS
			END SEM University Exam	Two Term Exam	Teachers Assessment*	END SEM University Exam	Teachers Assessment*				
MPLN 107(A)	T	A. ENVIRONMENT, ENERGY AND CLIMATE CHANGE	-	-	-	-	-	-	2	-	2

Legends: L - Lecture; T - Tutorial/Teacher Guided Student Activity; P – Practical; 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.

Text Books:

- Environmental Hazards: Assessing Risk and Reducing Disaster, Smith, K., David P., London, Routledge Publications
- Energy, Ecology & Environment / WILSON, RICHARDS & JONES WILLIUM • Handbook of Environmental Planning / McENRO, JAMES • Environmental Science / CUNNINGHAM, W.P.
- Integrated Environmental Planning / LEIN, J.K. • Sustainable Development / Khanna, D.D. • Man & the changing Environment / FRANK, R. G & FRANK D. N

References:

- Handbook of Environmental Planning / McENRO, JAMES
- Disaster Management Handbook, Pinkowski J., CRC Press Disaster Recovery, Brenda D. Phillips, CRC Press
- Environmental Hazards: Assessing Risk and Reducing Disaster, Smith, K., David P., London, Routledge Publications
- Integrated Environmental Planning / LEIN, J.K.
- Sustainable Development / Khanna, D.D.
- Man & the changing Environment / FRANK, R. G & FRANK D. N

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M.Plan in Urban Planning (2021-2023)

SEMESTER 1

OPEN ELECTIVE

MPLN 107 (B) – REAL, ESTATE DEVELOPMENT AND MANAGEMENT

COURSE CODE	Category	COURSE NAME	TEACHING & EVALUATION SCHEME								
			THEORY			PRACTICAL		L	T	P	CREDITS
			END SEM University Exam	Two Term Exam	Teachers Assessment*	END SEM University Exam	Teachers Assessment*				
MPLN 107 (B)	T	B. REAL, ESTATE DEVELOPMENT AND MANAGEMENT	-	-	-	-	-	2	-	2	

Legends: L - Lecture; T - Tutorial/Teacher Guided Student Activity; P – Practical; 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 Educational Objectives (CEOs):

To examine the fast-changing nature of the real estate scenario and land markets in India, particularly after the July 1991 economic reforms.

Course Outcomes (COs):

Upon the completion of this course, the students would be able:

- To examine and analyse the nature of real estate and land markets generally but analytically.
- To demonstrate links between economic, social, and political forces on one hand, and real estate on the other.

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M.Plan in Urban Planning (2021-2023)

MPLN 107 (B) – REAL ESTATE DEVELOPMENT AND MANAGEMENT

COURSE CODE	Category	COURSE NAME	TEACHING & EVALUATION SCHEME								
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			END SEM University Exam	Two Term Exam	Teachers Assessment*	END SEM University Exam	Teachers Assessment*				
MPLN 107 (B)	T	B. REAL ESTATE DEVELOPMENT AND MANAGEMENT	-	-	-	-	-	2	-	-	2

Legends: L - Lecture; T - Tutorial/Teacher Guided Student Activity; P – Practical; 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.

Syllabus:

Unit I

09HRS

Developments of Land and Real Property

Process of land development, market mechanism and land use pattern cost of development, source of finance, and financial calculation for real estate developer

Unit II

12HRS

Real Property Markets

Heterogeneity and imperfections, valuation of real property - principles and practices; private ownership and social control of land; disposal of land; land development charges and betterment levy; land use restrictions, compensation and requisition taxation of capital gain on land versus public ownerships, economic aspects of land policies at various levels of decision making.

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MPLN 107 (B) – REAL, ESTATE DEVELOPMENT AND MANAGEMENT

COURSE CODE	Category	COURSE NAME	TEACHING & EVALUATION SCHEME								
			THEORY			PRACTICAL		L	T	P	CRED ITS
			END SEM University Exam	Two Term Exam	Teachers Assessment*	END SEM University Exam	Teachers Assessment*				
MPLN 107 (B)	T	B. REAL, ESTATE DEVELOPMENT AND MANAGEMENT	-	-	-	-	-	-	2	-	2

Legends: L - Lecture; T - Tutorial/Teacher Guided Student Activity; P – Practical; 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 III

09HRS

Factors Influencing Locational Decisions

Analysis of location of specific uses like residential, industrial, commercial and institutional in the light of location theories in intra-regional and inter-regional context; Techniques of cost benefit analysis of urban development programme.

Unit IV

12HRS

Case Studies

Case studies of real estate development in public, private, partnership sectors; Real estate as facilitator of development; Development of real estate as a tool for controlling land and property prices; Transaction and renting of real estate, Lease deeds and sale deeds, sale documents, registration; Mortgage and pledging.

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Text Books:

- Mittal, S. (2018) The ABC of Real Estate in India: An Eye Opener Account of the Real Estate Industry in India, White Falcon Publishing, Chandigarh.
- 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.
- 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.

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