

MPLN 101 – PLANNING STUDIO – I

Sl. No.	Course Code	Course Area	Course Typology	Course Name	TEACHING SCHEME / WEEK			CREDITS	EXAMINATION SCHEME					TOTAL MARKS
					L	T	S		THEORY			STUDIO		
									Two Term Exam (20%) (MST)	Teachers Assessment (20%) (SA)	End Semester University Exam (60%) (ESUE)	Internal Assessment (50%) (IA)	External Viva (50%) (EV)	
1	MPLN 101	PL	STUDIO	PLANNING STUDIO - I	0	0	0	0	0	0	70	70	140	

Legends: L - Lecture; T - Tutorial/Teacher Guided Student Activity; S - Studio; C - Credit; MST-Mid Sem Exam, ESUE- End Semester Examination IA- Internal Assessment, EV - External Viva

*Teacher Assessment shall be based following components: Quiz/Assignment/ Project/Participation in Class.

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 exercises*. The course further gives emphasis on site visits related with Urban planning Perspective. The studio objective is to understand urban structure, form, and functioning at different scales in a city through various urban planning related exercises.

COURSE OUTCOMES (COS):

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

1. Working knowledge of how actual planning projects are functioning.
2. Collaborative development of planning solutions to real situations confronted by communities.
3. Ability to carry out policy analysis and policy planning effectively.

COURSE CONTENTS: The studio is based on the learning of following modules-


- Module 1: Analysis of 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.
- Module 2: Working process for 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.

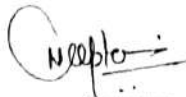
ASSIGNMENTS :

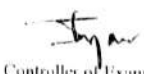
The whole studio work is divided into three main exercises.


1 • Area Appreciation (Group 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.


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					L	T	S		THEORY			STUDIO		
									Two Term Exam (20%) (MST)	Teachers Assessment (20%) (SS)	End Semester University Exam (60%) (ESE)	Internal Assessment (50%) (IA)	External Exs (50%) (EV)	
1	UPPLC131	PL	STUDIO	PLANNING STUDIO - I	0	0	6	8	0	0	0	250	250	500

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).

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 small scale land parcel 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.
- 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).

2 • 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.

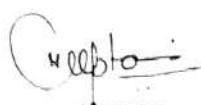
3 • Outline Development Plan (Group assignment)


An outline plan is a blueprint for development. It provides a detailed description of what a piece of land will look like when it has been fully developed including land uses, open space networks, treatment of environmentally sensitive lands, and park space. An outline plan also establishes the framework for infrastructure requirements including the road network, the servicing of the development, and ensuring the development will align with City plans, policies, and standards.


The studio exercise will focus on preparation of integrated development plan for selected urban area and shall focus on various aspects of physical and socioeconomic planning.

Initial study involves understanding of the exercise through theories, study of similar case studies, awareness of relevant norms and standards through extensive literature search.


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Sl. No.	Course Code	Course Area	Course Typology	Course Name	TEACHING SCHEDULE WEEK			CREDITS	EXAMINATION SCHEME					TOTAL MARKS
					I	II	S		THEORY		STUDIO		TOTAL	
									In-Term Exam (20%) (MTS)	Teacher Assessment (20%) (TA)	Internal Assessment (10%) (IA)	External Exam (20%) (EA)		
	URP1001	PL	STUDIO	PLANNING STUDIO - I	0	0	0	0	0	0	20	20	60	90


Students are required to prepare a comprehensive list of required data and identify probable sources before making a field visit to the case study town/city. Students are encouraged to translate learning from the core and elective subjects to the studio exercise. The introduction of GIS in the studio enables them to apply it in the studio exercise. Students are expected to analyse the data collected and come out with proposals and recommendations for planned development of the city. The entire exercise is also documented in the form of a technical report.


Prepare a checklist that features the basic requirements for preparing an outline plan. This checklist should be used as a starting point for developing an outline plan. Additional information may be requested by City administration upon review of the documents. And work in groups for the preparation of maps and proposals for the given site input.


Note: 90% attendance and above attendance should be observed as compulsory for the studio project course. For the further semester studio works, understanding of the Urban planning projects should be clearly developed till the end of the first semester.


REFERENCE READINGS

- Bureau of Indian Standards (2005) National Building Code of India, Bureau of Indian Standards, New Delhi Course Code:
- 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 (UDPFI) 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.


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MIT-N 102 - PLANNING HISTORY AND THEORY

Sl. No.	Lecture Code	Lecture Title	Lecture Type	Lecture Name	TEACHING SCHEME MARKS			EXAMINATIONS MARKS				TOTAL MARKS		
					I	T	S	THEORY		STUDIO				
1	PLN102	PLN	100	PLANNING, URBANISM AND HISTORY	2	0	0	2	20	20	60	0	0	100
									Two Term Exam (20%) (MST)	Teachers Assessment (20%) (SS)	1st Semester Internal Examinations (40%) (EBRD)	Internal Assessment (50%) (IA)	Practical Test (50%) (PT)	

Expects 1 - Lecture 1 Internal/Teacher/United Student Activity, S - Studio ; C - Credit; MST-Mid Sem Exam, ESUE- End Semester Examination, IA- Internal Assessment, EV - External Viva

*Teacher Assessment shall be based following components: Quiz/Assignment/Project/Participation in Class.

COURSE EDUCATIONAL OBJECTIVES (CEO):

•The course aims to understand 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 (CO):

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

- To demonstrate appreciation and knowledge of theories of historical urban planning.
- In-depth knowledge about existing planning models and their range of applications.
- Knowledge of existing objectives of planning practices across the world.

COURSE CONTENTS :

UNIT I - 4 HRS DURATION

DEFINITIONS AND OBJECTIVES OF PLANNING

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

UNIT II - 8 HRS DURATION

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, metropoloids and megalopolis.

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Sl. No.	Name of the Candidate	Course/Program	Source/Name	E-LEARNING		CREDITY		EXAMINATION SCHEME				TOTAL MARKS	
				SEMESTER WISE		Theory	Practical	THEORY		STUDIO			
				1	2			1	2	1	2		3
1	Pranav	PL	PLANNING	L	T	S	20	20	20	20	20	20	100

UNIT III - 6 HRS DURATION

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.;

UNIT IV - 6 HRS DURATION

FUTURE SETTLEMENTS AND CONCEPTS

- Emerging Concepts: global city, inclusive city, safe city, etc.; City of the future and future of the city; Shadow cities, divided cities;

UNIT V - 6 HRS DURATION

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.

REFERENCE READINGS

- Altenriedinger, P. (2017) Planning Theory, Macmillan, London, Third Edition
- Burch, M. N. (1987) Planning the Indian City, Vikas Publishing, New Delhi.
- Fanclien, S.S. and De Filippos, 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.
- Geogon, N. (2011) The Politics of the Urban Poor in Early Twentieth-Century India, Cambridge University Press, Cambridge
- Holroy, P. (2010) Making Urban Places: The planning project in the twenty-first century, Palgrave Macmillan, London.
- Kap, A. (1970) 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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MPN 103 - ECONOMICS AND URBAN SOCIOLOGY

Sl. No.	Course Code	Course Area	Course Title	Course Name	TEACHING SCHEDULE/ WEEKS							TOTAL MARKS	
					CREDITS								
					L	T	S	EXAMINATION SCHEME					
1	MPN 103	PL	THEORY	ECONOMICS AND URBAN SOCIOLOGY	2	10	10	20	THEORY		STUDIO		100
					1st Term Exam (20%) (MS)	2nd Term Assessment (20%) (SA)	End Semester Exam (40%) (SA)	1st Semester Exam (40%) (SA)	Internal Exam (10%) (SA)	External Exam (10%) (SA)			

Legend 1 - Lecture, T - Tutorial/Teacher Guided Student Activity, S - Studio, C - Credit, MS-Mid Sem Exam, SA- End Semester Examination, IA - Internal Assessment, EV - External Viva

*Teacher Assessment shall be based following components: Quiz/Assignment/Project/Participation in Class

COURSE EDUCATIONAL OBJECTIVES (CEOS):

- The course aims to introduce the concepts of Economics and Urban Sociology, which are the essential factor in urban planning process.
- 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.

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 an urban environment.
 - To develop the basic understanding of some key economic concepts and their application in planning.

COURSE CONTENTS :

UNIT I – 6 HRS DURATION

SOCIETY, CULTURE AND THE CITY

Sociological concepts and methods, man and environment relationships, Socio-cultural profile of Indian society and urban transformation

Transition 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.

UNIT II – 4 HRS DURATION

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 neighborhood communities. Social planning and policy, and community participation. Marginalization and concepts of inclusive planning, and gender concerns in planning.

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UNIT	TOPIC	T1 & T2		T3 & T4		T5 & T6		T7 & T8		TOTAL MARKS
		Q1	Q2	Q1	Q2	Q1	Q2	Q1	Q2	
1	Introduction to Economics	1	1	1	1	1	1	1	1	10
2	Microeconomics	1	1	1	1	1	1	1	1	10
3	Macroeconomics	1	1	1	1	1	1	1	1	10
4	Development Economics	1	1	1	1	1	1	1	1	10
5	International Trade	1	1	1	1	1	1	1	1	10
6	International Finance	1	1	1	1	1	1	1	1	10
7	Environmental Economics	1	1	1	1	1	1	1	1	10
8	Health Economics	1	1	1	1	1	1	1	1	10
9	Labour Economics	1	1	1	1	1	1	1	1	10
10	Public Economics	1	1	1	1	1	1	1	1	10
11	Monetary Economics	1	1	1	1	1	1	1	1	10
12	Banking and Finance	1	1	1	1	1	1	1	1	10
13	International Law	1	1	1	1	1	1	1	1	10
14	International Taxation	1	1	1	1	1	1	1	1	10
15	International Accounting	1	1	1	1	1	1	1	1	10
16	International Business	1	1	1	1	1	1	1	1	10
17	International Marketing	1	1	1	1	1	1	1	1	10
18	International Management	1	1	1	1	1	1	1	1	10
19	International HRM	1	1	1	1	1	1	1	1	10
20	International Labour Relations	1	1	1	1	1	1	1	1	10
21	International Industrial Relations	1	1	1	1	1	1	1	1	10
22	International Labour Law	1	1	1	1	1	1	1	1	10
23	International Labour Standards	1	1	1	1	1	1	1	1	10
24	International Labour Organization	1	1	1	1	1	1	1	1	10
25	International Labour History	1	1	1	1	1	1	1	1	10
26	International Labour Statistics	1	1	1	1	1	1	1	1	10
27	International Labour Research	1	1	1	1	1	1	1	1	10
28	International Labour Policy	1	1	1	1	1	1	1	1	10
29	International Labour Law and Practice	1	1	1	1	1	1	1	1	10
30	International Labour Law and Procedure	1	1	1	1	1	1	1	1	10
31	International Labour Law and Jurisprudence	1	1	1	1	1	1	1	1	10
32	International Labour Law and Theory	1	1	1	1	1	1	1	1	10
33	International Labour Law and Practice	1	1	1	1	1	1	1	1	10
34	International Labour Law and Procedure	1	1	1	1	1	1	1	1	10
35	International Labour Law and Jurisprudence	1	1	1	1	1	1	1	1	10
36	International Labour Law and Theory	1	1	1	1	1	1	1	1	10
37	International Labour Law and Practice	1	1	1	1	1	1	1	1	10
38	International Labour Law and Procedure	1	1	1	1	1	1	1	1	10
39	International Labour Law and Jurisprudence	1	1	1	1	1	1	1	1	10
40	International Labour Law and Theory	1	1	1	1	1	1	1	1	10

UNIT III - RURAL DEVELOPMENT

POLICIES AND CONSIDERATIONS

Syllabus: National Commission on Urbanization, Rural Habitat Policy and experiences from developing countries regarding settlement structure, growth and spatial distribution.

UNIT IV - RURAL DEVELOPMENT

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.

UNIT V - RURAL DEVELOPMENT

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.

REFERENCE READINGS

- Sociology: Anthony Giddens, Wiley
- Sociology: John J. Macionis, Pearson
- Urban Sociology: Ingers and Soterice; Farrington, William G., Prentice Hall
- Urban Problems in Sociological Perspective; Shannon, Thomas R., Waveland Press Inc
- The Metropolis and Mental Life; Simmel; George; New York: Free Press
- Key Concepts of Urban Studies; M. Gendreau; Sage London
- The State Handbook of Sociology; Popo Turner et al; Sage
- Sociology and Well-being; Sen, Anurita and M. Nandanan; Oxford: Clarendon Press
- Introduction to Sociology; R. T. Smith A. K. Thapar; Deep and Deep Publications
- Sex & Capitalism: Approach and Gender Inequality; Seeking Relevant Capitalism; Feminist Economics; Pradyum, Ingrid

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MPT N 104 – PLANNING TECHNIQUES

Sl. No.	Concepts and Areas	Topics	Lecture Notes	CLASSIFICATION			CREDITS			EXAMINATION SCHEME			TOTAL
				DISSEM	SEMI-DISSEM	NON-DISSEM	THEORY	LAB	PROJECT	THEORY	LAB	PROJECT	
1	Urban and Regional Planning	Urban Planning	Urban Form	1	1	5	10	20	20	60	0	0	100

Program : B.Tech. : I - Industrial/Teacher Guided Student Activity : S - Studio : C - Credit : MST/Std Exam, ESSE: End Semester Examination, IA: Internal Assessment, EV - External Viva

* Teacher Assessment shall be based following components: Quiz/Assignment/Project/Participation in a class.

COURSE EDUCATIONAL OBJECTIVES (CEO):

The course aims at introducing techniques used at various stages in planning, from preliminary to advanced and their methods of selection of data.

It focuses on familiarising planning practices in India and their manifestations on the urban and regional front.

COURSE OUTCOMES (CO):

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.

- To create base maps and present planning information on maps.
- To have an understanding for methods of data collection and to analyse the types of data required for planning.
- To be able to examine them for understanding the existing situation in a settlement and implementing its analysis to formulate the plans and policies.

COURSE CONTENT

UNIT I – 4 HRS DURATION

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 – 6 HRS DURATION

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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Sl. No.	Title of the Book	Author	Edition/Version	TEACHING SCHEME		EXAMINATION SCHEME					
				I	II	THEORY		SETTLED		TOTAL MARKS	
						Per Term Exam (20%) (15%)	Per Term Exam (20%) (15%)	End Semester Exam (80%) (85%)	Internal Assessment (10%) (10%)		Internal Assessment (10%) (10%)
1	Ecology & Environment	Prasad, S. S. S.	1st Edition	1	1	1	1	1	1	1	100

REFERENCE READINGS

Housing:

- Housing, Changing Streets and New Directions, V. Gandhin, M. Shukul, N. Jaju and N. Jaowal, Authors press
- Housing and Urbanisation: A study of India, Cedric Pugh, Sage Publications, New Delhi
- Housing Laws in India, Problems and Remedies, P. K. Sarker, Eastern Law House Private Ltd
- National Housing Policy (G.O.), New Delhi
- Trending Material on Housing, K. Thaman, Prabhu, IPTL, India
- Understanding Housing Policy, Hiran Land, The Policy Press, Great Britain
- Urban Development and Housing in India: 1947 to 2007, Rishi Mani Deyvish, 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, Donald Jasovic, Rowson L. Earthscan Publication, UK
- Planning, Separating, Public Purpose and Politics, Land Market Development, Low Income Housing and Public Intervention in India, Baber, Robert Leo
- Key's M.A.S Students in Development Geography
- Blackwell, A. P. H. 'Squatters, a New Urban World, Bennett, Robert Taylor & Francis Group
- Urban Housing: Theory, Model, Managing Frameworks, Work for the Poor, Payne, Geoffrey and Sharpe, Michael, Earthscan Publication, UK

Environment:

- Fundamentals of Ecology, Odum, J. P. Harper, G. W. Brown, R. Thomson Brooks
- Ecology, Impact Assessment and Environmental Planning, Werriman W., John Wiley and Sons
- Integrated Environmental Planning, James K. Lee, Blackwell Publishers
- AITP Reader on Ecology & Resource Development, AITP
- AITP Reading Material on Environmental Planning and Design, Prof. A. K. Maurya, SPA Delhi
- Environmental Engineering, Howard S. Perry, Tata Mc Grawhill

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Vishwavidyalaya Indore

S. K. Jaiswal

Controller of Examination
Sri Vashtana Vidyaapeeth
Vishwavidyalaya Indore

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Registrar
Sri Vashtana Vidyaapeeth
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MPLN 107 – FUNDAMENTALS OF INFORMATION SYSTEMS

Sl. No.	Course Code	Course Title	Credits	L.T. HRS.		S.T. HRS.		CREDITS		Total Exam Marks	Internal Assessment Marks	Total Marks
				TH	TR	TH	TR	TH	TR			
1	MPLN107	INFORMATION SYSTEMS	3	0	0	0	0	0	0	0	0	0

Legends : L – Lecture, T – Tutorial/Teacher Guided Student Activity, S – Studio, C – Credit, MST:Mid Sem Exam, ESSE: End Semester Examination, IA: Internal Assessment, EV – External Viva.

* Teacher Assessment shall be based following components: Quiz/Assignment/Project/Participation in Class.

COURSE EDUCATIONAL OBJECTIVES (CEO):

The objective of this course tends to provide a **broad understanding of the computing skills related to drawing and planning tasks**. For bringing students with different backgrounds on a common learning base. Also the fundamental knowledge of GIS planning software starts for the efficiency perspective in studio subject.

COURSE OUTCOMES (CO):

Through this course students will be able to :

- Develop proficient working skills on software , that can enable them in their urban planning projects.
- Enhance logical thinking through GIS application usage.
- To enable to work and analyze large scale areas.

COURSE CONTENT:

UNIT I – 4 HRS DURATION

INTRODUCTION TO INFORMATION SYSTEMS AND COMPONENTS

Definition of information systems , types, concepts, components, Systems approach for Planning relevance, and Basic introduction to Cad, GIS, Remote sensing.

UNIT II – 4 HRS DURATION

OVERVIEW: PRINCIPLES AND APPLICATIONS OF REMOTE SENSING (RS)

Geographic Information Systems and Type of Required Spatial Data, Raster and Vector Data Structures, Spatial Data Models, Geo-Database, Analyzing Tools and Software.

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Head of Studies,
Sri Venkateswara Vignyan
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Faculty of Studies
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Coordinator of Examination
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No.	Name of the Candidate	Registration No.	THEORY		PRACTICAL		TOTAL MARKS
			Part I (40%)	Part II (20%)	Part I (20%)	Part II (20%)	
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UNIT III – REMOTE SENSING

GLOBAL NAVIGATION SATELLITE SYSTEMS

Global Navigation Satellite Systems, Electromagnetic Spectrum, Band Combination, Reflectance, Image Interpretation and Analysis Information Systems - Information Needs

Introduction to Geo-informatics, introduction to Remote Sensing – Aerial and Satellite, introduction to GIS, Spatial data and Attribute data, Satellite images as input to GIS, Collection and presentation of baseline information

UNIT IV – REMOTE SENSING

USING PLANNING INFORMATION SYSTEMS: DATA CREATION AND CHECKING

Data Features point line, polygon creation on GIS, Different methods of creating attributes table , color changing for different features, Different file formats in GIS , Different coordinate systems

UNIT V – REMOTE SENSING

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)

REFERENCE READINGS

- Advanced Surveying - Total Station, GIS and Remote Sensing, Sathesh Corp, Perum
- Applied Remote Sensing in Urban Planning, Governance and Sustainability, Neelam, Springer, India
- Introduction to GIS and Remote Sensing, Andrew Sabharwal et al, PHI Press
- Geographic Information System and Science, PA Longley et al, John Wiley and Sons, Ltd
- GIS, Spatial Analysis, and Modeling, David J Maguire et al, ESRI Press
- Fundamentals of GIS, Remote Sensing and Spatial Statistics, Merina T DeLuzo et al, Lap Lambert Academic Publications

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MPLN IIS - CORE ELECTIVE

PLANNING SEMESTER		CREDITS		EXAMINATION SCHEME				TOTAL MARKS
				THEORY		STUDIO		
No. No.	Course Code	Course Area	Course Type	Smart Cities	Urban Planning Systems and Services (MPLN)	Urban and Sustainable Development (MPLN)	Historical and Environmental Urban Planning (MPLN)	Professional Skills (MPLN)
11	PLANNING 101	PLANNING	THEORY	1	1	1	1	1
12	PLANNING 102	PLANNING	THEORY	1	1	1	1	1
SMART CITIES AND URBAN PLANNING POLICIES								
13	PLANNING 103	PLANNING	THEORY	1	1	1	1	1
URBAN PLANNING SYSTEMS AND SERVICES (MPLN)								
14	PLANNING 104	PLANNING	THEORY	1	1	1	1	1
URBAN AND SUSTAINABLE CITIES								
15	PLANNING 105	PLANNING	THEORY	1	1	1	1	1
URBAN POLICIES AND SMART CITY MEASURES								
16	PLANNING 106	PLANNING	THEORY	1	1	1	1	1
URBAN GROWTH AND SMART CITY INSTRUMENTS - TOOLKITS, INDICES AND MODELS DEVELOPED TO MEASURE SMARTNESS.								

Legends - I - Lecture ; T - Tutorial/teacher Guided Student Activity; S - Studio ; C - Credit; MST-Mid Sem Exam; ESHE- End Semester Examination; IA - Internal Assessment ; EY - External Viva

* Teacher Assessment shall be based following components: Quiz/Assignment/Project/Participation in Class.

COURSE EDUCATIONAL OBJECTIVES (CEO):

To equip the students with knowledge of contemporary and conventional planning concepts, with related urban governance strategies and planning techniques.

This course makes them aware about changing trends and possible new solutions for futuristic works.

COURSE OUTCOMES (CO):

- By the end of the semester students will be able to draw their own understanding for urban planning spaces, and will be able to work efficiently of spatial data analysis part.
- Students will be a part of the local area development plans , at initial level engagement.
- Students will learn the basics of LDC urban site condition analysis with policy Framework knowledge.

A) SMART CITIES AND URBAN PLANNING POLICIES

COURSE CONTENT :

- Introduction to smart city concept – precessors to smart city, sustainable cities, green cities , digital cities, global cities and smart cities
- Smart city and urban society - smart economy, smart mobility , smart environment , smart lifestyle and smart governance concepts.
- Smart cities around the world - social processes , smart energy – smart buildings , smart transport other related aspects for smart , inclusive and sustainable cities.
- Urban policies and smart city measures
- Future growth and smart city instruments – toolkits , indices and models developed to measure smartness.

REFERENCE READINGS

- Planning support systems and smart cities, springer international publishing , Switzerland.
- Manual pedia noddingz – holon (2011) , transferring city governments for successful smart cities
- Stan portman , Joseph ferrin , Ji Robert Goodspeed , John Stillwell Eds (2015).

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Sl. No.	Course Code	Course Title	Course Type	Course Status	TEACHING METHOD/STYL		CREDITS		EXAMINATION SYSTEM									
					L	T	T	T	T	T	T	T	T					
1	UGPA1101A	Maths I (III)	Compulsory	Open Elective	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2	UGPA1101B	Maths II (III)	Compulsory	Open Elective	0	0	0	0	0	0	0	0	0	0	0	0	0	0

B.) URBAN INFORMATION SYSTEM AND SPATIAL ANALYSIS

COURSE CONTENT :

- Introduction to Geographic Information System and Geographic Distribution - Analysing Patterns using Spatial Statistics
- GIS applications and, in combination with introductory statistics, for resource allocation in space. Specific applications shall include network analysis; retail site-suitability; spatial housing market analysis; and predictive modelling.
- raster-based analysis related to proximity, density and interpolation
- concepts related to Ordinary Least Squares Regression, Exploratory Regression, Geographically Weighted Regression.

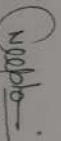
REFERENCE READINGS

- GIS Fundamentals: A First Text on Geographic Information Systems, Paul Bolstad, XanEdu Publishing Inc, 5th edition.
- Introduction to Geographic Information Systems, Kang-sheng Chang, McGraw-Hill Education.
- Urban Analytics, Alex D. Singleton, Seth Spethman and David Peich
- Modelling Discrete Competitive Facility Location, Alanman Karakulison, 2015, Springer, ISBN: 978-3-319-21340-8

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