

**M.PLANNING
(URBAN PLANNING)**

STUDY SCHEME

**MRSPTU M.PLANNING (URBAN PLANNING) SYLLABUS
2022 BATCH ONWARDS**

Total Contact Hours = 21		Total Marks = 900						Total Credits = 21		
Semester 1 st		Contact Hours				Maximum Marks		Total Marks	Credits	Duration of Exam Hrs.
Subject Code	Subject Name	L	S	T	P	Int.	Ext.			
MPUPS1-101	Planning History and Theory	3	-	-	-	50	50	100	3	3
MPUPS1-102	Socio-economic basis for Planning	3	-	-	-	50	50	100	3	3
MPUPS1-103	Planning Techniques & Statistical Analysis	3	-	-	-	50	50	100	3	3
MPUPS1-104	Infrastructure Planning	3	-	-	-	50	50	100	3	3
MPUPS1-105	Housing Environments and Planning	3	-	-	-	50	50	100	3	3
MPUPS1-106	Planning Studio -I	2	4	-	-	250	150	400	6	Evaluation by External Viva-voce
Total		17	4	-	-	500	400	900	21	-

Total Contact Hours = 21		Total Marks = 900						Total Credits = 21		
Semester 2 nd		Contact Hours				Maximum Marks		Total Marks	Credits	Duration of Exam Hrs.
Subject Code	Subject Name	L	S	T	P	Int.	Ext.			
MPUPS1-201	City and Metropolitan Planning	3	-	-	-	50	50	100	3	3
MPUPS1-202	Transport Planning	3	-	-	-	50	50	100	3	3
MPUPS1-203	Urban Management and Governance	3	-	-	-	50	50	100	3	3
MPUPS1-204	Advanced Planning Techniques	3	-	-	-	50	50	100	3	3
MPUPS1-205	Planning Studio - II	2	4	-	-	250	150	400	6	Evaluation by External Viva-voce
Departmental Elective - I (Select any one)										
MPUPD1-211 (Elective)	Urban Heritage Conservation	3	-	-	-	50	50	100	3	3
MPUPD1-212 (Elective)	Planning for Tourism									
Mandatory Training of Six Weeks after Second Semester during Summer Vacation										
Total		17	4	-	-	500	400	900	21	-

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Total Contact Hours = 18		Total Marks = 900						Total Credits = 18		
Semester 3 rd		Contact Hours				Maximum Marks		Total Marks	Credits	Duration of Exam Hrs.
Subject Code	Subject Name	L	S	T	P	Int.	Ext.			
MPUPS1-301	Project Planning and Management	3	-	-	-	50	50	100	3	3
MPUPS1-302	Politics and Planning	3	-	-	-	50	50	100	3	3
MPUPS1-303	Planning Studio - III	3	6	-	-	250	150	100	9	Evaluation by External Viva-voce
Departmental Elective - I (Select any one)										
MPUPD1-311 (Elective)	Environment, Development and Disaster Management	3	-	-	-	50	50	100	3	3
MPUPD1-312 (Elective)	Energy, Climate Change and Urban Development									
MPUPS1-304	Review of Six Weeks Mandatory Training during Summer Vacation after Second Semester.									
Total		12	6	-	-	500	400	900	18	-

Total Contact Hours = 18		Total Marks = 1000						Total Credits = 18		
Semester 4 th		Contact Hours				Maximum Marks		Total Marks	Credits	Duration of Exam Hrs.
Subject Code	Subject Name	L	S	T	P	Int.	Ext.			
MPUPS1-401	Development Finance	3	-	-	-	50	50	100	3	3
MPUPS1-402	Legal Issues and Professional Practice	3	-	-	-	50	50	100	3	3
MPUPS1-403	Thesis	-	12	-	-	500	300	800	12	Evaluation by External Viva-voce
Total		6	12	-	-	600	400	1000	18	

- Note: (1) Credits for Theory & Studio : One Credit for one hour of teaching/Studio per week
 (2) Six Weeks Training after Second Semester during the summer vacation is **mandatory** for which the Review will be held in Third Semester.

Overall Marks / Credits

Semester	Marks	Credits
1 st	900	21
2 nd	900	21
3 rd	900	18
4 th	1000	18
Total	3700	78

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2022 BATCH ONWARDS**

PLANNING HISTORY AND THEORY			
Subject Code: MPUPS1-101	L T P C	3 - - 3	Duration: 45 Hrs.
<p>Course Objectives:</p> <ol style="list-style-type: none"> 1. To study Evolution of Cities and History of Planning. 2. To study Theories of City Development. <p>Course Outcomes:</p> <ol style="list-style-type: none"> 1. Understanding the planning process, theory and practice and its role in planning of cities. 2. Appreciate the role of historical developments in planning and its evolution and trace these influences to the current situation. 3. Developing capacity to understand multiple often conflicting factors to be balanced in planning for an urban area. 4. Identifying the key paradigms that define urban planning theory. 			
UNIT-I (8 Hours)			
<p>Evolution of City Building Relevance of the study of evolution of settlements; Hunter, gatherer, farmer and formation of organized society; Cosmological and other influences, origins and growth of cities, effects of cultural influence on physical form; Human settlements as an expression of civilizations; Basic elements of the city; Concepts of space, time, scale of cities.</p>			
UNIT-II (14 Hours)			
<p>Planning History Town planning in ancient India; classification of settlements and plans of ancient Indian villages and towns; Medieval, renaissance, industrial and post-industrial cities; City as a living spatial entity; Concepts of landmark, axis, orientation; City form as a living space; City as a political statement: New Delhi, Chandigarh, Washington D.C. Brasilia etc.; Contribution of individuals to city planning: Lewis Mumford, Patrick Geddes, Peter Hall, Camillo Sitte, Clarence Perry, C.A. Doxiadis, F.L. Wright, Le Corbusier etc; Dynamics of the growing city, impact of industrialization and urbanization, metropolis and megalopolis.</p>			
UNIT-III (8 Hours)			
<p>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.</p>			
UNIT-IV (15 Hours)			
<p>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; City as an organism: a physical, social, economic and political entity; Emerging Concepts: global city, inclusive city, safe city, etc.; City of the future and future of the city; Shadow cities, divided cities; 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.</p>			

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Recommended Text Books / Reference Books:

S. No.	Name of Authors	Titles of the Book	Edition	Name of the Publisher
1	Hall, P.	Cities of tomorrow: an intellectual history of urban planning and design in the twentieth century,	2001	Blackwell, London.
2	Birch, E.L. and Silver, C.	One Hundred Years of City Planning's Enduring and Evolving Connections, Journal of the American Planning Association, Vol.75, Issue 2, pp.113-122.	2009	
3	Sandercock, L.	Making the Invisible Visible: A Multicultural Planning History	1998	University of California Press London.
4	Brooks, M.P.	Four critical junctures in the history of the urban planning profession: An exercise in hindsight, Journal of the American Planning Association, Vol. 54, Issue 2, 241-248.	1988	
5	McLoughlin, J. B.	Urban and Regional Planning. A systems approach,	1969	Faber and Faber, London.
6	Faludi, A.	A Reader in Planning Theory,	1973	Pergamon Press, London.
7	Healey, P.	Collaborative Planning: Shaping Places in Fragmented Societies	1997	Macmillan, London.
8	Peter, G.H. and Tewdwr-Jones, M.	Urban and Regional Planning,	2011	Routledge, London. Edition.

List of Exercises / Practicals:

1	Visit to Planning Organization / Department and submit Report on adoption of Concepts and Theories by them.
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List of Assignments/Tests:

1	Test on Unit 1 or Unit 2.
2	Assignment on Unit 4.

INSTRUCTIONS TO QUESTION PAPER SETTER

1. One compulsory question containing five questions of 2 marks (10 marks), each requiring short answers, are to be set from the entire syllabus.

2. The examiner is required to set another six questions (at least one from each unit), out of which the students are required to attempt any four questions (selecting at least one from each unit).

**MRSPTU M.PLANNING (URBAN PLANNING) SYLLABUS
2022 BATCH ONWARDS**

SOCIO - ECONOMIC BASIS FOR PLANNING

Subject Code: MPUPS1-102

L T P C

Duration: 45 Hrs.

3 - - 3

Course Objectives:

1. To study Socio-cultural Profile of Indian Society in the context of Urban and Rural Settlements.
2. To study the Economic Growth and Development of Urban and Rural Settlements.

Course Outcomes:

1. Understanding the relationship between sociology and urban planning
2. Developing an insight in to social, geographical, biological and economic factors that shapes the urban environment
3. Developing the relevance to Socio-economic Issues in Urban and Regional Planning
4. Studying and analyzing the approaches to valuation and public finance

UNIT-I (9 Hours)

Nature and Scope of Sociology

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.

UNIT-II (12 Hours)

Community and Settlements

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

UNIT-III (12 Hours)

Elements of Micro and Macro 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-IV (12 Hours)

Development Economics and Lessons from Indian Experiences

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.

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Text / Reference Books:				
S. No.	Name of Authors	Titles of the Book	Edition	Name of the Publisher
1.	N. Jayapalan	Urban Sociology	2002	Atlantic Publishers & Distributors, New Delhi
2.	William G. Flanagan	Urban Sociology-images and Structures	2010	Rowman & Littlefield Publishers Inc
3.	Mani Monto, L.S. Ganesh & K. Verghese	Sustainability and Human Settlements: Fundamental Issues, Modeling and Simulation	2005	SAGE Publications Pvt. Ltd, New Delhi
4.	Dr. D N Dwivedi	Principles of Economics	2006	Vikas Publishing House
5.	Karl E. Case	Principles of Economics	2009	Pearson Education
6.	Jhingan, M	The Economics of Development and Planning	1998	Vrinda Publications, Delhi,
List of Exercises / Practicals:				
1.	Visits to a Village / Small town to ascertain Socio-economic Impact of Development and submit Report.			
List of Assignments/Tests:				
1	Test on Unit 1 or Unit 3.			
2	Assignment on Unit 2 or Unit 4			

INSTRUCTIONS TO QUESTION PAPER SETTER

1. One compulsory question containing five questions of 2 marks (10 marks), each requiring short answers, are to be set from the entire syllabus.
2. The examiner is required to set another six questions (atleast one from each unit), out of which the students are required to attempt any four questions (selecting at least one from each unit).

**MRSPTU M.PLANNING (URBAN PLANNING) SYLLABUS
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PLANNING TECHNIQUES & STATISTICAL ANALYSIS

Subject Code: MPUPS1-103

L T P C
3 - - 3

Duration: 45 Hrs.

Course Objectives:

1. To study the Database for Physical Surveys and Techniques of preparation of Base Maps.
2. To study the Methods of Population Forecast and Projections.

Course Outcomes:

1. Understanding the techniques to prepare base maps , classify and delineate region
2. Understanding the necessary information on town planning theories, principles, techniques and methodologies.
3. Knowing the Spatial standards, URDPFI guidelines, zoning regulations and development control rules and regulations.
4. Understanding the various dimensions of urban planning in past.

UNIT-I (12 Hours)

Survey Techniques and Mapping

Data base for physical surveys including land use, building use, density, building age, etc., and socio-economic surveys; Survey techniques; Land use classification or coding and expected outputs; Techniques of preparing base maps including understanding the concepts of scales, components and detailing for various levels of plans like regional plan, city plan, zoning plan, and local area plan.

UNIT-II (12 Hours)

Analytical Methods

Classification of regions, delineation techniques of various types of regions, analysis of structure of nodes, hierarchy, nesting and rank size; Scalogram, sociogram, etc.; Planning balance sheet; Threshold analysis; Input output analysis, SWOT analysis; Introduction to Techniques of system simulation, Garin and Lowry Model; Threshold Analysis, Preparation of Urban and Regional Development plans - various approaches.

UNIT-III (12 Hours)

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. Regionalization and delineation techniques for various types of regions, regional planning vis-vis National Five Year Plans.

UNIT-IV (9 Hours)

Planning Standards

Spatial standards, performance standards and benchmarks, and variable standards; URDPFI guidelines, zoning regulations and development control rules and regulations. Town typology and their characteristics, Urbanization and Urban Growth, Identification of problems and priorities, Preparation of plans; Perspective Plan, Master Plan, Development Plan, Zonal Plans, Project Plans/Schemes.

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Text / Reference Books:

S. No.	Name of Authors	Titles of the Book	Edition	Name of the Publisher
1.	Margaret Robert	An introduction to town planning techniques	1974	Hutchinson Educational, University of California
2.	Ian Braken	Urban Planning Methods	2007	Routledge,
3.	Kruekeberg D. A. and Silvers A. A.	Urban Planning Analysis	1988	John Willey and Sons Inc.

List of Exercises / Practicals:

1	Visit to a Local Body / Development Authority and submit report with relevance to adoption of Planning Techniques by them.
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List of Assignments/Tests:

1	Test on Unit 1 or Unit 2.
2	Assignment on Unit 4.

INSTRUCTIONS TO QUESTION PAPER SETTER

1. One compulsory question containing five questions of 2 marks (10 marks), each requiring short answers, are to be set from the entire syllabus.
2. The examiner is required to set another six questions (atleast one from each unit), out of which the students are required to attempt any four questions (selecting at least one from each unit).

**MRSPTU M.PLANNING (URBAN PLANNING) SYLLABUS
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INFRASTRUCTURE PLANNING

Subject Code: MPUPS1-104

L T P C
3 - - 3

Duration: 45 Hrs.

Course Objectives:

1. To study the Elements of Physical Infrastructure and its Management.
2. To study the Quantitative and qualitative assessment of infrastructure provisions and selected methodologies for suitable provisions and implementation

Course Outcomes:

1. The student shall be able to understand the specific techniques of analysis and evaluation for urban infrastructure planning
2. The student shall be able to understand the possible means of achieving project and societal objectives.
3. The student shall be able to understand the concepts of infrastructure management at various levels
4. Students will learn about the different hierarchies of the finance of infrastructure facilities.

UNIT-I (9 Hours)

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 (14 Hours)

Planning and Management of Water, Sanitation and Storm Water

Water – sources of water, treatment and storage, transportation and distribution, quality, networks, distribution losses, water harvesting, recycling and reuse, norms and standards of provision, institutional arrangements, planning provisions and management issues; Sanitation – points of generation, collection, treatment, disposal, norms and standards, grey water disposal, DEWATS, institutional arrangements, planning provisions and management issues. Storm water – rainfall data interpretation, points of water stagnation, system of natural drains, surface topography and soil characteristics, ground water replenishment, storm water collection and disposal, norms and standards, institutional arrangements, planning provisions and management issues.

UNIT-III (13 Hours)

Planning and Management of Municipal Wastes, Power and Fire

Municipal and other wastes – generation, typology, quantity, collection, storage, transportation, treatment, disposal, recycling and reuse, wealth from waste, norms and standards, institutional arrangements, planning provisions and management issues. Power – Sources of power procurement, distribution networks, demand assessment, norms and standards, planning provisions and management issues. Fire – History of fire hazards, vulnerable locations, methods of firefighting, norms and standards, planning provisions and management issues.

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UNIT-IV (9 Hours)

Economics of Urban Services

Cost recovery, economics of urban service system and networks, Infrastructure finance concepts and principles of emerging urban infrastructure finance and management issues such as BOO, BOT, BOOT etc.

Text / Reference Books:

S. No.	Name of Authors	Titles of the Book	Edition	Name of the Publisher
1	Bijlani, H.U.; Rao, P.S.N.	Water supply and sanitation in India	1990	Pub. by Oxford and IBH Publishing, New Delhi
2	Bandela, N.N; Tare, D.G.	Municipal solid waste management	2009	Pub. by B.R. Publishing
3	Mukerjee S. and Chakraborty D. (Eds)	Environmental scenario in India	2012	Routledge, London
4	Sameer Kochhar, Deepak B. Phatak, H. Krishnamurthy, Gursharan Dhanjal, (eds)	Infrastructure and Governance	2008	Academic Foundation, New Delhi

List of Exercises / Practicals :

1	Visit to a Local Body / Development Authority and submit report relevant with Infrastructure Planning.
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List of Assignments/Tests:

1	Test on Unit 1 or Unit 2.
2	Assignment on Unit 3 or Unit 4.

INSTRUCTIONS TO QUESTION PAPER SETTER

1. One compulsory question containing five questions of 2 marks (10 marks), each requiring short answers, are to be set from the entire syllabus. Any four questions (selecting at least one from each unit).
2. The examiner is required to set another six questions (atleast one from each unit), out of which the students are required to attempt.

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2022 BATCH ONWARDS**

HOUSING ENVIRONMENTS AND PLANNING

Subject Code: MPUPS1-105

L T P C
3 - - 3

Duration: 45 Hrs.

Course Objectives:

1. To introduce the Basic Definitions, Concepts and Socio-economic Dimensions related to Housing.
2. To provide a basic understanding of Housing at the Neighborhood and City level and to Appreciate the Housing Sector as an Integral Sector of Overall Town Planning System.

Course Outcomes:

1. Appreciating the housing sector as an integral part of overall town planning system
2. Understanding of housing at the neighborhood and City Level
3. Appreciating typologies of housing in relation to culture and environment factors
4. Focusing on the role of housing development and its policy context in shaping the social and physical fabric of the contemporary city

UNIT-I (10 Hours)

Concepts and Definitions

Shelter as a basic requirement, determinants of housing form, Census of India definitions, Introduction to policies, housing need, demand and supply, dilapidation, structural conditions, materials of constructions, housing age, occupancy rate, crowding, housing shortage, income and affordability, poverty and slums, houseless population. Various housing typologies viz. traditional houses, plotted development, group housing, multi-storied housing, villas, chawls, etc.

UNIT-II (12 Hours)

Social and Economic Dimensions

Housing as social security, role of housing in development of family and community well-being, status and prestige related to housing, safety, crime and insecurity, deprivation and social vulnerability, ghettoism, gender issues, housing for the elderly. Contribution of housing to micro and macro economy, contribution to national wealth and GDP, housing taxation, national budgets, fiscal concessions, forward and backward linkages.

UNIT-III (12 Hours)

Housing and the City

Understanding housing as an important land use component of city plan / master plan, considerations for carrying out city level housing studies, projections, land use provisions; Suitability of land for housing, housing stress identification, projecting housing requirements, calculating housing shortages, housing allocation.

UNIT-IV (11 Hours)

Housing Environments

Slums and squatters, night shelters, public health issues related to housing, various theories of housing, concept of green housing, green rating of housing projects; basic services for housing neighborhoods. Approaches to neighborhood living in traditional and contemporary societies, elements of neighborhood structure, Planning and design criteria for modern neighborhoods, norms and criteria for area distribution, housing and area planning standards, net residential density and gross residential density, development controls and building byelaws, URDPFI guidelines, NBC 2005 provisions and Case studies of neighborhood planning.

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Text / Reference Books:				
S. No.	Name of Authors	Titles of the Book	Edition	Name of the Publisher
1.	Dwyer, D.J.	People and Housing in Third World Cities	1981	Orient Longman
2.	Beyer Glen H,	Housing : a factual analysis	1958	The Macmillan Co. NY
3.	Abrams, Charles	Man's Struggle for Shelter in an Urbanizing World	1964	MIT, Harvard
4.	Payne, Geoffrey	Urban Housing in the Third World	1977	Routledge and Keegan Paul, USA
5.	Al Nichols, Jason Laros	Inside the Civano Project (Green Source Books): A Case Study of Large-Scale Sustainable Neighborhood Development (Mcgraw-Hill's Green source Series)	2009	McGraw-Hill Professional
6.	Douglas Farr	Sustainable Urbanism: Urban Design With Nature	2007	John Wiley & Sons
7.	Aromar Revi	Shelter in India - Sustainable Development Series	1990	StosiusInc / Advent Books Division
8.	International Institute for Energy Conservation	Eco housing Assessment criteria Version II	2009	USAID
List of Exercises / Practicals:				
1	Visit to Regional Office of HUDCO or State Housing Board and submit report.			
List of Assignments/Tests:				
1	Test on Unit 1 or Unit 2.			
2	Assignment on Unit 4.			

INSTRUCTIONS TO QUESTION PAPER SETTER

1. One compulsory question containing five questions of 2 marks (10 marks), each requiring short answers, are to be set from the entire syllabus.
2. The examiner is required to set another six questions (atleast one from each unit), out of which
3. The students are required to attempt any four questions (selecting at least one from each unit)

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PLANNING STUDIO-I					
Subject Code: MPUPS1-106	L	T	S	C	Duration: 90 Hrs.
	2	-	4	6	

Course Objectives:

1. To understand Development Issues.
2. To appreciate Contextual location of Area in relation to City.

Course Outcomes:

1. Critically analyzing relevant literature and field conditions
2. Applying planning techniques and prepare of plans at layout/zone/part of settlement level
3. Developing capacity to understand complex and interrelated factors to be considered in spatial planning
4. Developing planning insight and make acquaintance with various planning related exercises, such as, Layout Planning, Neighborhood Planning, Urban Renewal / Redevelopment, etc.

UNIT-I (40 Hours)

Introduction to Geo-Informatics

Basic concepts of GIS and to represent geographical features in GIS. Concept of digital maps and its advantages, raster and vector maps, spatial and attributes data, various types of spatial and non-spatial analysis in urban planning using GIS. Various data input methods in the ArcView of ArcGIS software, which includes geo-referencing, digitization, query building, spatial and non-spatial analysis, and final production of maps using GIS. For the purpose of digitization and data, existing data source may be used. Exercises undertaken by the students will be submitted in the form of soft copy of problems, hard copy of Some problems, and reports / assignments. In addition, a final practical examination will be conducted.

UNIT-II (50 Hours)

Site Development

Study and Design of lay out for an Industrial, Commercial, Institutional areas etc. on an existing site of about 10 hectares land .The items to be submitted may include.

- 1) Site analysis clearly indicating all physical features, infrastructural facilities and landscape features, potentials and problems on standard scale.
- 2) Design of Typed units-All plans and at least, two elevations and one section on suitable scale.
- 3) Layout of buildings and roads.
- 4) Layout showing network services trunk sewer, main waterlines and refuse collection points, etc.
- 5) Layout showing landscaping proposal along with buildings and roads all on suitable scale
- 6) Report containing introduction site analysis, area calculation s etc. followed in design process.

Text / Reference Books:

S. No.	Name of Authors	Titles of the Book	Edition	Name of the Publisher
1.	Lynch, Kevin	Site Planning		
2.	Smith, Carl, et. al.,	Residential Landscape Sustainability – A Checklist Tool	2008	Blackwell Pub., Oxford
3.	Ministry of Urban Development	Revised Tool Kit for Preparation of CDP	2009	Government of India, New Delhi

List of Exercises / Practicals:

1	Visit to Local Planning Agency and Field Visit for Data Collection and submit Report.
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2022 BATCH ONWARDS**

CITY AND METROPOLITAN PLANNING			
Subject Code: MPUPS1-201	L	T	S C
	3	-	0 3
<p>Duration: 45 Hrs.</p>			
<p>Course Objectives:</p> <ol style="list-style-type: none"> 1. To study City – Region Linkages and problems of Metro and Mega Cities. 2. To study Urban Development Policies and Problems. 			
<p>Course Outcomes:</p> <ol style="list-style-type: none"> 1. Gaining understanding of the city-region linkages and inter-dependency between city and region. 2. Getting familiar with acts and legal tools relevant to city planning. 3. Understanding the complex nature of environmental issues and development processes specifically at metro and mega cities scale. 4. Becoming capable of working for societal development addressing fulfillment of needs of all, improving the quality of life of residents. 			
UNIT-I (8 Hours)			
<p>Urban Growth and System of Cities Definition of Urbanization and Metropolitanization process; metropolis and related concepts-Urban agglomeration, Conurbation, necropolis, Primate City, metropolitan region and area of influence, megalopolis, world cities, global city, Classic and neo classic definitions. Growth of cities scale, complexity and its impact on national development, cities as engines of growth, cities as ecosystems, resources in cities. City as a three dimensional entity; Study of volumes and open space at all spatial levels, Inclusive Planning definitions and components</p>			
UNIT-II (9 Hours)			
<p>City – Region Linkages City, fringe and the periphery - physical and functional linkages, peri-urban development. Image of city and its elements: nodes, districts, paths, edges and landmarks. Centralization and decentralization processes and their impact on Form and concept for metropolitan planning and developments: Sheet, Galaxy, Core, Star, Ring and multinucleated. Stakeholders Profile and Needs, Access to Shelter, Services and Livelihoods, Urban Poor, Informal Sector, Gender, Children, Elderly, Disabled, Displaced people, etc.; Slums - dimensions, causative factors, determinants, location characteristics of settlements; Informal sector - growth, characteristics, functions, economic contributions, linkages with formal sector, impact on Urban Development</p>			
UNIT-III (14 Hours)			
<p>Metro and Mega Cities: Problems and Issues Growth trends and processes, characteristics, problems, concepts and concerns of urban sustainability, issues related to diversity and unintended growth, economic, social and environmental sustainability, quality of life, inclusivity and equity, climate change, transit oriented development, participatory planning. Inner city – issues and problems, approach to development. Inclusive zoning, development and building regulations, Slum Improvement.</p>			
<p>Participatory Planning Process and Policies, Programmes and Legislation Methods, role of stakeholders (including civil society organizations), etc.; Related Acts, Five year plans, policies and programmes at various levels.</p>			

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UNIT-IV (14 Hours)

Human Settlement Planning, Urban Development Policies and Programmes

Concepts, approaches, strategies and tools; Policies and programmes at various levels, impact on metro and mega city development. 74th Amendment Act, 1992, role of MPC. Case studies on metropolitan planning and development – mega cities and metropolitan cities

Planning interventions

Inclusive zoning, development and building regulations, Slum Improvement.

Text / Reference Books:

S. No.	Name of Authors	Titles of the Book	Edition	Name of the Publisher
1.	ITPI	City and Metropolitan Planning and Design	--	ITPI, New Delhi
2.	Ramachandran, R	Urbanization and Urban Systems in India	1998	Oxford University Press, New Delhi
3.	Bawa, V. K.	Indian Metropolis: Urbanization, Planning and Management	1987	Inter-India Publications, New Delhi
4.	MMRDA	Madras 2011: A New Perspective for Metropolitan Management	1991	MMRDA, Chennai
5.	NCRPB	Regional Plan 2021	2005	NCRPB, New Delhi
6.	DDA	Master Plan for Delhi 2021	2010	DDA, New Delhi
7.	Misra, R.P. & Misra, K.	Million Cities of India Vol. 1&2	1998	Sustainable Development Foundation, New Delhi

List of Exercises / Practicals:

1	Visit to a City / Metropolitan Planning and Development Agency and submit report.
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List of Assignments/Tests:

1	Test on Unit 1 or Unit 2.
2	Assignment on Unit 3 or Unit 4.

INSTRUCTIONS TO QUESTION PAPER SETTER

- 1) One compulsory question containing five questions of 2 marks (10 marks), each requiring short answers, are to be set from the entire syllabus.
- 2) The examiner is required to set another six questions (atleast one from each unit), out of which the students are required to attempt any four questions (selecting at least one from each unit)

**MRSPTU M.PLANNING (URBAN PLANNING) SYLLABUS
2022 BATCH ONWARDS**

TRANSPORT PLANNING					
Subject Code: MPUPS1-202	L	T	S	C	Duration: 45 Hrs.
	3	-	0	3	
<p>Course Objectives:</p> <ol style="list-style-type: none"> 1. The Role and Significance of Transport Infrastructure in Habitat Planning and in inducing Peoples' Participation in the Planning Process. 2. To understand the importance of different Sectors and their Mutual Interdependence. <p>Course Outcomes:</p> <ol style="list-style-type: none"> 1. Students will learn to address urban infrastructure challenges. 2. Students will be able to do short and long range planning for alternative infrastructure systems while designing for present and future cities and regions 3. Students will have an understanding of the infrastructure network like water supply, roads, sewer, solid waste and street lighting to enable them to evolve spatial strategy for cities and towns 4. Students will learn to identify the gaps and requirements of the infrastructure in a particular city/town and will come out with a way outs to give proper infrastructure in each and very society. 					
UNIT-I (10 Hours)					
<p>Transport systems and their types, design and operating characteristics, urban road hierarchy, planning, and management criteria for road and junction improvements, arterial improvement techniques. Transport survey and studies: study area definitions, survey and their types, sampling methods, survey techniques, programming and processing of travel data, analysis and interpretation of traffic studies. Transportation Planning Process and analytical techniques, Urban travel characteristics, urban transport interrelationship, transport planning process and modeling.</p>					
UNIT-II (11 Hours)					
<p>Traffic management, mass transit system: Problems and prospects, tramways, trolley buses, LRS and RTS operation characteristics, planning transit systems. Management of transport systems: existing organizational and legal framework, traffic and environmental management techniques. Review of existing traffic management schemes in Indian cities.</p>					
UNIT-III (12 Hours)					
<p>Transport and environment: Traffic noise, factor affecting noise statement measures, standards, air pollution standards, traffic safety, accident reporting and recording systems, factors affecting road safety , transport planning for target groups, children, adults , handicapped and women . Norms and guide lines for highway landscape, street lighting types, standards and design considerations.</p>					
UNIT-IV (12 Hours)					
<p>Economics evaluation: pricing and funding of transport services and systems, economic appraisal of highway and transport projects. Techniques for estimating direct and indirect road user costs and benefit value of time.</p>					

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2022 BATCH ONWARDS**

Text / Reference Books:				
S. No.	Name of Authors	Titles of the Book	Edition	Name of the Publisher
1	Meyer, M. D.; Miller, E. J.	Urban Transportation Planning: A Decision-Oriented Approach	2001	Pub. by McGraw-Hill
2	Black, A.	Urban Mass Transportation Planning	1995	Pub. by McGraw-Hill
3	Weiner, E.	Urban transportation planning in the United States: An historical overview	1986	Technical Report
4		Indian Roads Congress Codes		
List of Exercises / Practicals:				
1	Visit to an Infrastructure Development Agency and submit report.			
List of Assignments/Tests:				
1	Test on Unit 1 or Unit 2.			
2	Assignment on Unit 4.			

INSTRUCTIONS TO QUESTION PAPER SETTER

1. One compulsory question containing five questions of 2 marks (10 marks), each requiring short answers, are to be set from the entire syllabus.
2. The examiner is required to set another six questions (atleast one from each unit), out of which the students are required to attempt any four questions (selecting at least one from each unit).

**MRSPTU M.PLANNING (URBAN PLANNING) SYLLABUS
2022 BATCH ONWARDS**

URBAN MANAGEMENT AND GOVERNANCE			
Subject Code: MPUPS1-203	L	T	S C
	3	-	0 3
<p>Duration: 45 Hrs.</p>			
<p>Course Objectives:</p> <ol style="list-style-type: none"> 1. To comprehend the various Facets of Urban Development and Management. 2. To study issues in urban policies, practices, governance and their inter- relationship 			
<p>Course Outcomes:</p> <ol style="list-style-type: none"> 1. Understanding the practical aspects of planning processes, and the political, institutional and legal systems that direct and/or inform planning including demand, development and management. 2. Creating awareness about the critical laws used in India and their salient features relating to development of land. 3. Making the students aware of the governance mechanisms involved in development planning, administration and management. 4. Understanding the structure of local bodies and gaining knowledge of the finances involved and fiscal management of development. 			
UNIT-I (10 Hours)			
<p>Introduction to Development Management Concept, approaches, components, interfaces with national goals and political economic system. Development Management: Basic principles and process of management, Role of management in a developing economy, Strategies, Tools and Techniques; organizations involved.</p>			
UNIT-II (11 Hours)			
<p>Land and Real Estate Development Economic concepts of land, Land Pricing / valuation; Economic principles of land use; demand forecasting for land use: factors affecting land supply and demand; Land development methods, Supply Management, Demand side Management; Real estate markets, type of property development and its impact on supply and demand, method of development, environmental considerations, land acquisition act, land pooling, TDR</p>			
UNIT-III (12 Hours)			
<p>Information System and Urban Reforms Spatial and Non - spatial information systems; Urban reforms and acts and policies. Urban & regional development management policies and programmes of Government of India, AMRUT, HRIDAY Priorities</p>			
UNIT-IV (12 Hours)			
<p>Overview of Urban Governance Definition, concepts, components, government and governance, hierarchy and structure, forms of governance, process of inclusion and exclusion, Provisions in the National Development Five Year Plans. Differences between institutions and organizations; approaches to understanding organizations; types, structure and functions, their interface and conflicts, reach, and their effectiveness; Methods, process and evaluation; Present organizations and involved in urban governance.</p> <p>Urban Local Governance and Participatory Processes System, structure, functions, powers, process and resource, performance, interface with NGO's, other agencies.</p>			

**MRSPTU M.PLANNING (URBAN PLANNING) SYLLABUS
2022 BATCH ONWARDS**

Text / Reference Books:				
S.No.	Name of Authors	Titles of the Book	Edition	Name of the Publisher
1	Rakodi, C. and Llyod-Jones, T.	Urban Livelihoods: A People- Centered Approach to Reducing Poverty.	2002	Earthscan, London
2	Datta, A.	The Illegal City: Space, Law and Gender in a Delhi Squatter Settlement	2012	Ashgate, Burlington
3	Roy, A. and Ong, A. (eds.)	Worlding Cities: Asian Experiments and the Art of Being Global	2011	Wiley Blackwell, London
4	Rhodes, R.A.W.	Understanding Governance: policy networks, governance, reflexivity and accountability.	1997	Open University Press, Maidenhead,GB, Philadelphia
5	Jayal,N.G., Prakash, A. and Sharma, P.K.	Local Governance in India: decentralization and beyond.	2006	Oxford University Press, New Delhi
6	Baud, I.S.A. and Wit, J. de	New Forms of Urban Governance in India: shifts, models, networks and contestations	2008	Sage New Delhi.
List of Exercises / Practicals:				
1	Visit to development project undertaken by Local body and submit a report.			
List of Assignments/Tests:				
1	Test on Unit 1 or Unit 2.			
2	Assignment on Unit 3 or Unit 4.			

INSTRUCTIONS TO QUESTION PAPER SETTER

1. One compulsory question containing five questions of 2 marks (10 marks), each requiring short answers, are to be set from the entire syllabus.
2. The examiner is required to set another six questions (atleast one from each unit), out of which the students are required to attempt any four questions (selecting at least one from each unit).

**MRSPTU M.PLANNING (URBAN PLANNING) SYLLABUS
2022 BATCH ONWARDS**

ADVANCED PLANNING TECHNIQUES					
Subject Code: MPUPS1-204	L	T	S	C	Duration: 45 Hrs.
	3	-	0	3	
<p>Course Objectives:</p> <ol style="list-style-type: none"> 1. To study Surveying Techniques and GIS Mapping. 2. To study Analytical Planning Techniques, Report Writing and Presentation <p>Course Outcomes:</p> <ol style="list-style-type: none"> 1. Knowing the in depth knowledge about the planning techniques and assessment methods 2. Developing the ability to form research questions worthy of informing public policy. 3. Generating more equitable outcomes through policies and planning interventions. 4. Ability to conduct various investigations through the use of research techniques. 					
UNIT-I (9 Hours)					
<p>Survey Techniques Data Base for Physical surveys (including land use / building use / density / building age, etc.) and Socio-economic surveys; Questionnaire formulation, Sampling and survey techniques, etc. Land use classification / coding.</p>					
UNIT-II (9 Hours)					
<p>Introduction to Research Definition and needs of Research, Scientific research and methods, System approach of research, Levels of research: micro and macro; Major steps in the conduct scientific research, induction, deduction and verification; Selection and formulation of research problems, reviewing of literature, Designing a research, Pre-test and pilot study.</p>					
UNIT-III (13 Hours)					
<p>Research Design and implementation Approaches in research, developing a method for research; Questionnaire Design, Types of data, sampling methods; developing aims, objectives, scope, limitations; and literature research – using library, accessing the Internet, Hypothesis; meaning, importance and different concept, formulation and testing of hypothesis, Correlation and Regression Analysis - meaning, types, importance.</p>					
UNIT-IV (14 Hours)					
<p>Analytical Techniques, Presentation and Report Writing Data tabulation; Interpretation of information; Graphical presentation of data; Spatial representation of data; Types of reports with specific focus on technical report writing; Organizing the report, structure chapter organization, Writing the report (analytical findings); Referencing in text, use of software in referencing</p>					

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2022 BATCH ONWARDS**

Text / Reference Books:				
S. No.	Name of Authors	Titles of the Book	Edition	Name of the Publisher
1.	Groves R.M. Fowler F.J., Couper M.P., Lepkowski J.M., Singer E., Tourangeau R.,	Survey Methodology	2009	John Wiley and Sons
2.	Easa S., Chan Y., (ed)	Urban Planning GIS	2000	American Society of Civil Engineers,
3.	John W. Creswel	Research Design	2003	Sage Publication, California
4.	Glatthorn A. A, and Joyner R. L.	Writing the winning thesis	2005	Corwin Press, California
List of Exercises / Practicals:				
1.	Visit to a Division / Department of Local Bodies / Development Authority dealing with Surveying Techniques and submit report.			
List of Assignments/Tests:				
1.	Test on Unit 1 or Unit 2.			
2.	Assignment on Unit 4.			

INSTRUCTIONS TO QUESTION PAPER SETTER

1. One compulsory question containing five questions of 2 marks (10 marks), each requiring short answers, are to be set from the entire syllabus.
2. The examiner is required to set another six questions (atleast one from each unit), out of which the students are required to attempt any four questions (selecting at least one from each unit).

**MRSPTU M.PLANNING (URBAN PLANNING) SYLLABUS
2022 BATCH ONWARDS**

PLANNING STUDIO - II					
Subject Code: MPUPS1-205	L	T	S	C	Duration: 90 Hrs.
	2	-	4	6	
Course Objectives: <ol style="list-style-type: none"> 1. To Assess, Collect and Analyze the Information Requirements for the Study. 2. To understand the Characteristics of the City for Preparation of Sustainable Development Plan 					
Course Outcomes: <ol style="list-style-type: none"> 1. Analyzing components such as physical characteristics, natural resources, demographic characteristics, economic base, employment, shelter, transportation, social and infrastructure facilities, finance, institutional set-up, regional interdependencies etc 2. Carrying out surveys and frame proposals 3. Understanding local problems through planning surveys 4. Understanding of spatial and non-spatial data collection, presentation and interpretation in context for physical planning. 					
UNIT-I (45 Hours)					
First Assignment (Minor Problem) Study of an existing Town for its Urban Development and Planning. The proposal may include <ol style="list-style-type: none"> i. An existing land uses map indicating all its subcategories and extent and nature of use/ activity. ii. A map showing the future proposal as given in the development plan along with all facts and figures. iii. Analysis of standards adopted in the Development Plan regarding the various land uses, with suggestion of improvements and various techniques etc. iv. A comprehensive report containing introduction, reasons for selection of the Town and the planning alternatives with analysis, calculations, observations and recommendation etc. 					
UNIT-II (45 Hours)					
Second Assignment (Major Problem) The students are required to prepare a plan on the basis of identification of problems, potentials of the town studied under first assignment of Study of Town”. The scope of Comprehensive Development plan preparation will include working out the detailed requirements; formulation goals, objectives and policies; planning considerations; conceptual framework; planning proposals including zoning and phasing; and implementation strategy covering organizational and financial aspects. The Master plan shall be submitted in form of a detailed report illustrated with necessary maps, charts, drawings, and sketches.					

Text / Reference Books:

S. No.	Name of Authors	Titles of the Book	Edition	Name of the Publisher
1.	Dellinger, A.	Validity and the Review of Literature, Review in the Schools	2005	
2.	Hart, C.	Doing a Literature Review, Releasing the Social Science Research Imagination	198	London: Sage and Open University

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3.	Taylor, G.	A Student's Writing Guide: How to Plan and Write Successful Essays	2009	Cambridge University Press
4.	Neville, C.	The Complete Guide to Referencing and Avoiding Plagiarism	2007	McGraw-Hill International
5.	Punch, Keith	An Introduction to Social Research: Quantitative and Qualitative Approaches	2005	Sage
6.	Neuman, William	Basics of Social Research: Qualitative and Quantitative Approaches	2007	Pearson, Allen and Bacon
7.	Bryman, Alan	Social Research Methods	2008	Oxford University Press
8.	Finlay, B.	Statistical Methods for the Social Sciences	2009	Pearson Publisher University of Florida, US

List of Exercises / Practicals:

1	Visit to the case study town and submit report.
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List of Assignments/Tests:

1	Marked Reviews of Unit 1
2	Internal and External Jury.

**MRSPTU M.PLANNING (URBAN PLANNING) SYLLABUS
2022 BATCH ONWARDS**

URBAN HERITAGE CONSERVATION (ELECTIVE)					
Subject Code: MPUPD1-211	L	T	S	C	Duration: 45 Hrs.
	3	-	0	3	
<p>Course Objectives:</p> <ol style="list-style-type: none"> To study Natural and Cultural Heritage Conservation. To study Policies, Programs and Legislation for Heritage Conservation. <p>Course Outcomes:</p> <ol style="list-style-type: none"> Students will be able to develop a understanding of mapping and recording of physical and social layering in the city. Student will gain an insight into theoretical concepts of cultural variation and diversity in urban context Students will be able to develop the understanding to identify the key attributes of cultural significance in the built environment. Student will come up with the knowledge of the past history of a city and will learn the importance of the heritage and will try out the methods for conservation. 					
UNIT-I (10 Hours)					
<p>Introduction to Urban Heritage Typology / classification, inventories, mapping; Human habitation in historical context; Heritage as a motivating force in sustainable urban conservation and development.</p>					
UNIT-II (11 Hours)					
<p>Heritage Conservation Natural heritage conservation - typologies, policies for conservation, regulatory measures, community participation; Concept of Historic Urban Landscapes; Built heritage conservation - determinants of built form on heritage; Historic urban infrastructure and traditional water harvesting systems. Integration of historic monuments / areas / cores / urban systems in the developmental process and land use, regulatory measures and community involvement; Basic concepts of redevelopment & renewal. Intangible cultural heritage and development: issues, conservation strategies. Preparation of conservation and heritage management plans.</p>					
UNIT-III (12 Hours)					
<p>Heritage and Tourism, Policies and Programmes, Legislation Cultural and heritage based tourism - nature, potential and prospects, marketing aspects; Acts and laws recognizing conservation / regeneration; Heritage toolkit; Implications of 74th Constitution Amendment Act. National Organizations their role & functions Archeological Survey of India, IHCN, Indian National Trust for Art and Cultural Heritage (INTACH).</p>					
UNIT-IV (12 Hours)					
<p>Design in Human Habitation Social / cultural / ecological / energy determinants of design; Imagibility of the city; Structure of urban spaces – location criteria of activities and urban uses; Urban Regeneration, renewal, rehabilitation, revitalization, reconstruction and redevelopment - concepts, interventions, processes, approaches and methods, tools</p>					

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2022 BATCH ONWARDS**

Text / Reference Books:				
S. No.	Name of Authors	Titles of the Book	Edition	Name of the Publisher
1.	Luigi Fusco Girard and Peter Nijkamp (editors)	Cultural Tourism and Sustainable Local Development	2009	Ashgate, Burlington
2.	Nirmala Rao Khadpekar	Urban revitalization : perspectives and initiatives /	2008	ICFAI University Press
3.	Richard Longstreth (editor)	Cultural Landscapes: Balancing Nature and Heritage in Preservation Practice	2008	University of Minnesot a Press
4.	Cohen, Naoum	Urban Planning Conservation and Preservation	2001	McGraw-Hill
5.	Ismailb Serageldin, Ephim Shluger, Joan Martin-Brown (editors)	Historic Cities and Sacred Sites: Cultural Roots for Urban Futures	2001	The World Bank
List of Exercises / Practicals:				
1	Visit to a Heritage Conservation Site and submit report.			
List of Assignments/Tests:				
1	Test on Unit 1 or Unit 2.			
2	Assignment on Unit 4.			

INSTRUCTIONS TO QUESTION PAPER SETTER

1. One compulsory question containing five questions of 2 marks (10 marks), each requiring short answers, are to be set from the entire syllabus.
2. The examiner is required to set another six questions (at least one from each unit), out of which the students are required to attempt any four questions (selecting at least one from each unit)

**MRSPTU M.PLANNING (URBAN PLANNING) SYLLABUS
2022 BATCH ONWARDS**

PLANNING FOR TOURISM (ELECTIVE)					
Subject Code: MPUPD1-212	L	T	S	C	Duration: 45 Hrs.
3 - 0 3					
<p>Course Objectives:</p> <ol style="list-style-type: none"> 1. To study Tourism and its Relevance in Urban Development 2. To study Policies and Programmes of Tourism so as to ascertain parameters for Planning for Tourism Sector. <p>Course Outcomes:</p> <ol style="list-style-type: none"> 1. Students will be able to understand the strategies to develop an infrastructure development plan for tourist. 2. Students will be able to mark the tourist spots which are less identified and can increase the flow tourist flow 3. Students will be able to develop more tourist infrastructure related strategies. 4. Students will identify the abundant heritage sites and will revive the site and will always try to develop the tourist inflow over the site. 					
UNIT-I (10 Hours)					
<p>Introduction to Tourism Definitions, scope, nature, classification and dimension, tourism as an industry, tourism in developed and developing world.</p>					
UNIT-II (11 Hours)					
<p>Tourism Sector – impacts Relationship between Tourism and Urban Development, Tourism multiplier and forecasting methods: capacity building and carrying capacity planning for tourism projects, tourism and cultural and social change: Socio-cultural problems, environmental degradation.</p>					
UNIT-III (12 Hours)					
<p>Planning for Tourism Nature and scope of a tourism plan- key issues and stages, data requirements, surveys, role of key players / stake holders in tourism policy and planning, sustainable tourism development planning; community planning and tourism; implementation and management, role of travel and tourism promoting agencies, monitoring the tourism development; Tourism marketing - concept, techniques and strategies.</p>					
UNIT-IV (12 Hours)					
<p>Policies and Programmes Tourism policies at various levels.</p>					

Text / Reference Books:

S. No.	Name of Authors	Titles of the Book	Edition	Name of the Publisher
1.	Charles R. Goeldner , J.R. Brent Ritchie	Tourism: Principles, Practices, Philosophies	2009	John Wiley & Sons
2.	A.Satish Babu	Tourism Development in India	2008	APH Publishing Corporation , New Delhi

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2022 BATCH ONWARDS**

3.	Christopher M Law	Urban Tourism: The Visitor Economy and the Growth of Large Cities	2009	Continuum
4.	K.K. Sharma	Planning for Tourism	2003	Sarup & Sons, New Delhi
5.	Planning Commission	Working Group Report on Tourism (2012-2017)	2012	Planning Commission, GoI
6.	Ministry of Tourism	Strategic Action Plan for Tourism in India	2011	Ministry of Tourism, Government of India

List of Exercises / Practicals:

1	Visit to Ministry / Department of Tourism /ITDC/ State Tourism Development Corporation /Tourism based City and Submit Report.		
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List of Assignments/Tests:

1	Test on Unit 1 or Unit 2.
2	Assignment on Unit 3.

INSTRUCTIONS TO QUESTION PAPER SETTER

1. One compulsory question containing five questions of 2 marks (10 marks), each requiring short answers, are to be set from the entire syllabus.
2. The examiner is required to set another six questions (at least one from each unit), out of which the students are required to attempt any four questions (selecting at least one from each unit).

**MRSPTU M.PLANNING (URBAN PLANNING) SYLLABUS
2022 BATCH ONWARDS**

PROJECT PLANNING AND MANAGEMENT					
Subject Code: MPUPS1-301	L	T	S	C	Duration: 45 Hrs.
3 - 0 3					
<p>Course Objectives:</p> <ol style="list-style-type: none"> 1. To study relationship between Projects and Planning at various Levels. 2. To study Management, Implementation and Evaluation of Projects. <p>Course Outcomes:</p> <ol style="list-style-type: none"> 1. Understanding the working involved in formulating, appraising and managing the planning project. 2. Ability to understand the process of evaluating the project, checking its feasibility in context of all inputs used. 3. Developing the capability of grasping of the main issues arising in the planning process and creative strategies for implementation. 4. Understanding the relationship between Projects and governing fiscal planning at various Levels. 					
UNIT-I (10 Hours)					
<p>Project planning Introduction to Projects; Nature of planning projects; Project Life Cycle; Identification of projects</p>					
UNIT-II (11 Hours)					
<p>Project Formulation and Appraisal Relationship between projects and planning issues including sectoral policy at: Local, State and National levels Project appraisal: Market analysis – Macro environment survey, survey methods, market characterization, demand forecasting; Technical Analysis – Magnitude, processes, materials, equipment, factors of production availability, implementation schedule; suitability of the plans, layout and design, location of the project; location analysis; supporting infrastructure requirements.</p>					
UNIT-III (12 Hours)					
<p>Project Management and Implementation, and Project Evaluation and Monitoring Project characteristics - pitfalls in management of a project; Techniques of management; Planning milestones - responsibility charts and principle responsibility, principles of activity planning; Project Implementation– methods, hurdles, facilitative factors; Project culture: line management, steering committee, role of project manager; Project Control: cost and time, quality - ISI standards and its application to Indian context; Introduction to Project Management Software (Ms Projects) and its usage. Types of evaluation - concurrent, ex-ante and ex-post. Methods of evaluation, techniques of evaluation, end results, Presentation of evaluation findings, Techniques of Monitoring of Development Works.</p>					
UNIT-IV (12 Hours)					
<p>Regulatory Frameworks Governing Projects National Rehabilitation and Resettlement Policy (2007) - Social Impact mitigation; National Environmental Policy (2006) – Environmental Impact Assessment (EIA) and Environmental Management Plan (EMP)</p>					

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2022 BATCH ONWARDS**

Text / Reference Books:				
S. No.	Name of Authors	Titles of the Book	Edition	Name of the Publisher
1	Prasanna Chandra	Projects	2009	McGraw Hill, New Delhi.
2	Barker, Stephen and Cole, Rob.	Brilliant Project Management	2007	Pearson Education Limited, UK
List of Exercises / Practicals:				
1	Visit to a Local Body / Development Authority and submit report on the large scale project being undertaken by them.			
List of Assignments/Tests:				
1	Test on Unit 1 or Unit 2.			
2	Assignment on Unit 4.			

INSTRUCTIONS TO QUESTION PAPER SETTER

1. One compulsory question containing five questions of 2 marks (10 marks), each requiring short answers, are to be set from the entire syllabus.
2. The examiner is required to set another six questions (atleast one from each unit), out of which the students are required to attempt any four questions (selecting at least one from each unit

**MRSPTU M.PLANNING (URBAN PLANNING) SYLLABUS
2022 BATCH ONWARDS**

POLITICS AND PLANNING

Subject Code: MPUPS1-302

L T S C
3 - 0 3

Duration: 45 Hrs.

Course Objectives:

1. To develop a Comprehension of the Interplay of Politics in the Planning Process.
2. To understand the Social, Economic and Cultural Contexts of Politics and Planning and how it influence Development / Provision / Financial / Management of Resources and other Basic Infrastructure.

Course Outcomes:

1. Understanding the relation between politics and planning
2. Developing the capacity for resource optimization
3. Developing a comprehension of the interplay of politics in the planning process
4. Understanding the social, economic, and cultural contexts of Politics and Planning and its influence on development/ provision/ financial/ management of resources and other basic infrastructure

UNIT-I (10 Hours)

Interface between Politics and Planning

Social and economic context; State in India – political culture of the Indian State – Centre – State – Local political economy: 74th Constitution Amendment Act, State Finance Commissions; Emergence of the State in the federal set up.

UNIT-II (11 Hours)

City and the State

State as a manager of resources – property rights, norms and standards – Government market and market by Government – Regulatory State, Reforming State, and Rent Seeking State – their spatial implications; Development planning and the Indian state – Centralization, powerlessness and decentralization; spatial politics and competition; Politics of the State and bureaucracy; New State spaces, invited and contested spaces – changing role of the state.

UNIT-III (12 Hours)

Politics related to Planning and Development

Politics related to land, shelter, urban infrastructure, resources; Regeneration and redevelopment politics; politics of provision, financing and pricing; decision-making and decision taking.

UNIT-IV (12 Hours)

Politics and Civil Society

Politics and emergence of civil society – NGO, CBO and their role in planning, development and management, collective bargaining and collective action.

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2022 BATCH ONWARDS**

Text / Reference Books:				
S. No.	Name of Authors	Titles of the Book	Edition	Name of the Publisher
1.	Sarma, KSRN	Financing Urban Development in India	1979	IIPA, New Delhi
2.	Maarten, A.H.	City Politics	1989	Aldershot, Avebury
3.	Sharan, P.	Government and Politics of India	1984	New Delhi, Metropolitan Book
4.	Vettivel, Surendra, K.	Participation of Sustainable Development: Theory and Practice in Government and NGOs	1993	New Delhi, Vetri Publishers
List of Exercises / Practicals:				
1	Visit to a NGO or CBO and submit report on their Role in Planning and Development.			
List of Assignments/Tests:				
1	Test on Unit 1 or Unit 2.			
2	Assignment on Unit 4.			

INSTRUCTIONS TO QUESTION PAPER SETTER

1. One compulsory question containing five questions of 2 marks (10 marks), each requiring short answers, are to be set from the entire syllabus.
2. The examiner is required to set another six questions (atleast one from each unit), out of which the students are required to attempt any four questions (selecting at least one from each unit)

**MRSPTU M.PLANNING (URBAN PLANNING) SYLLABUS
2022 BATCH ONWARDS**

PLANNING STUDIO - III

Subject Code: MPUPS1-303

L T S C
3 - 6 9

Duration: 135 Hrs.

Course Objectives:

1. To assess the status of the Case Study City, to prepare Management Plans, to identify and formulate Projects,
2. To prepare DPR covering Physical, Environmental aspects, sequence of tasks, Cost Estimates, Project Benefits, and Institutional Framework for Project Implementation.

Course Outcomes:

1. Understanding the phasing, funding and implementation mechanism.
2. Preparing DPR covering Physical, Environmental aspects, sequence of tasks, Cost Estimates, Project Benefits etc.
3. Developing capacity to analyze issues and evolve solutions at urban level
4. Understanding the implication of law relating to planning and land development and local government, with an emphasis on statutory authority, finance, and land use control.

UNIT-I (67 Hours)

First Assignment - Re-planning of an area

Our cities and parts thereof require re-planning in the light of changing requirements of their residents. These changes can be of varying nature such as re-densification, change of land use, significant alteration in development controls, provision of parking, or other requirements as desired by the inhabitant of the area. This requires to consider such changes keeping in view the problems, constraints and potentials of such pockets and impact of such alterations on the surroundings of these pockets. The students, individually or in groups, shall be required to meet the desired outcome with essential required alterations without changing the basic character of the area as per the changed scenario. The students can take a proposed project or identify an area and its potential and replan the site. The final submission shall be in the form of various layouts and report.

UNIT-II (68 Hours)

Second Assignment - Detail Project Report of Urban Project

The focus of the studio is on management and governance aspects (in line with the other core and elective courses offered in the semester). The exercise pertains to metropolitan cities and mega cities and ranges from preparing management plans and projects related to various sectors pertaining to infrastructure, disaster risk, riverfront development etc. Students are also required to identify and formulate projects, work out the appraisals and do the feasibility, viability and implementation mechanisms of the projects. Students work on a case study town/city and have to visit the field for collection of data and interaction with city officials and stakeholders. Although planning continues to be an important aspect of the exercise, students are also exposed to project identification, formulation, and appraisal, financing mechanisms and institutional framework. Students draw from the theoretical knowledge provided in the core and elective subjects related to management, finance and governance offered in the semester and translate them in their studio exercise. The culmination of the exercise is in the form of group presentations and studio report.

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Text / Reference Books:				
S. No.	Name of Authors	Titles of the Book	Edition	Name of the Publisher
1.	Goodman,L.T.; Love; Ralph N.	Project Planning and Management: an Integrated Approach	1980	Pergamon Press, NY
2.	Little, IMD, Mirrlees, J.A.	Project Appraisal and Planning for Development Countries	1974	London, Heinemann Educational Books
3.	Rougvie, Alexander	Project Evaluation and Development	1987	London, Mitchell Publishing
4.	Choudhury, S.	Project Management	1988	New Delhi, Tata McGraw- Hill

List of Exercises / Practicals:

1	Visit to a Municipal Corporation and submit report on their approach for preparing of DPR.
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List of Assignments/Tests:

1	Marked Reviews of Unit 1.
2	External and Internal Jury.

**MRSPTU M.PLANNING (URBAN PLANNING) SYLLABUS
2022 BATCH ONWARDS**

ENVIRONMENT, DEVELOPMENT AND DISASTER MANAGEMENT (ELECTIVE)

Subject Code: MPUPD1-311

L T S C
3 - 0 3

Duration: 45 Hrs.

Course Objectives:

1. To understand the Interface between Environment and Development with a focus on Disaster Management.
2. To study the Disaster Mitigation Measures and Related Legislation of Environment and Disaster Management / Mitigation.

Course Outcomes:

1. Understanding the various factors of development and its effect on the environment
2. Understanding the different facets of environmental planning, development control, impact assessment methods, eco cities development, environmental improvement etc
3. Developing the capacity to understand the environmental consideration in spatial planning backed by theoretical understanding
4. Identifying the inter-linkages between environmental management and disaster management

UNIT-I (10 Hours)

Environment, Development and Disaster Management – Interface

Resource use, exploitation and conservation; Impact of human activities on environment; Environment and economy interaction, introduction to environmental accounting. Types of Environment: Natural, Built and Social, Concept of Resources, Types of Resources Economic, Natural, Potential vs. Actual, Non-renewable, Renewable and Perpetual Resources, Sustainable use of resources, Resources needed for a Settlement, Environmental issues in Settlements, Environmental Considerations in Urban Planning,

UNIT-II (11 Hours)

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-III (12 Hours)

Disaster Mitigation and Management

Relevance of disaster management in development and environment, disaster preparedness, prevention, displacement and development, Role and responsibilities of government and non-government organizations, Disaster Education – awareness of individuals, communities and participation at various levels; Integrating disaster mitigation in the spatial planning process, provision of infrastructure for disaster mitigation.

UNIT-IV (12 Hours)

Policies and Legislation Pertaining to Environment and Disaster Management

Policies and Legislation at various levels. Environment Protection Act 1986. Environment and sanitation issues during disasters, Stakeholders coordination in disaster response, roles and responsibilities of international organizations, disaster management legislation and policy framework (United Nation International Strategy for Disaster Risk Reduction (UNISDR), International Search and Rescue Advisory Group, (INSARAG), Global Facility for Disaster Risk Reduction (GFDRR), Asean Region Forum (ARF), Asian Disaster Reduction Centre (ADRC), SAARC Disasters Management Centre (SDMC), others. Hygo Framework of Action, Best practices/case studies in natural and manmade disaster management.

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2022 BATCH ONWARDS**

Text / Reference Books:				
S. No.	Name of Authors	Titles of the Book	Edition	Name of the Publisher
1.	Rajib Shaw	Community, Environment and Disaster Risk Management	2010	Emerald Group Publishing Limited
2.	Rajib Shaw Hari Srinivas, Anshu Sharma	Urban Risk Reduction An Asian Perspective	2009	Emerald Group Publishing Limited
3.	P C Sinha	Introduction to Disaster Management	2007	Anmol Publications, New Delhi
4.	Pardeep Sahni, Alka Dhameja, Uma Medury	Disaster Mitigation: Experiences and Reflections	2008	PHI Learning Pvt. Limited, New Delhi
5.	Jegadish Gandhi P	Disaster Mitigation & Management Post Tsunami Perspectives	2007	Deep & Deep Publications Pvt Ltd, New Delhi
6.	NDMA	Disaster Management Guidelines	2007-11	NDMA
7.	Ministry of Home Affairs	Model Amendment in Town and Country Planning Legislations, Regulation for Land Use Zoning and Building Byelaws for Structural Safety	2004	MHA
8.	Ministry of Home Affairs	National Policy on Disaster Management(NPDM)	2006	MHA
List of Exercises / Practicals:				
1	Visit NDMA / NIDM and submit the report.			
List of Assignments/Tests:				
1	Test on Unit 1 or Unit 2.			
2	Assignment on Unit 3.			

INSTRUCTIONS TO QUESTION PAPER SETTER

- One compulsory question containing five questions of 2 marks (10 marks), each requiring short answers, are to be set from the entire syllabus.
- The examiner is required to set another six questions (atleast one from each unit), out of which the students are required to attempt any four questions (selecting at least one from each unit

**MRSPTU M.PLANNING (URBAN PLANNING) SYLLABUS
2022 BATCH ONWARDS**

ENERGY, CLIMATE CHANGE AND URBAN DEVELOPMENT (ELECTIVE)

Subject Code: MPUPD1-312	L T S C	3 - 0 3	Duration: 45 Hrs.
Course Objectives:			
<ol style="list-style-type: none"> 1. To study the Determinants of Energy Supply and Demand. 2. To study relationship of Plans, Policies and Strategies with reference to Energy Planning. 			
Course Outcomes:			
<ol style="list-style-type: none"> 1. Implementing sustainability in planning process at different spatial scales 2. Familiarizing students with basic concept of economics of energy, environment and their interaction with reference to climate change. 3. Understanding the impact and adaptation of climate change. 4. Understanding mitigation strategy of climate change. 			
UNIT-I (10 Hours)			
Introduction			
Energy, Climate change and Urban Development – Interface.			
UNIT-II (11 Hours)			
Energy Generation and Consumption			
Energy Supply and Demand, Energy Consumption in cities, determinants of energy demand, phenomenon of climate change, factors influencing climate change, impacts of climate change			
UNIT-III (12 Hours)			
Energy Planning and Management, and Mitigation and Adaptation to Climate Change			
Energy efficient development, Compact city form, Transit oriented development. Mechanisms and measures for mitigating and adapting to climate change at various levels			
UNIT-IV (12 Hours)			
Plans, Policies and Strategies			
Related to energy planning, conservation, climate change mitigation and adaptation.			

Text / Reference Books:				
S. No.	Name of Authors	Titles of the Book	Edition	Name of the Publisher
1.	S.K Dash	Climate change: an Indian perspective, New Delhi	2007	Cambridge University Press
2.	Jenks, Mike; Burgess, Rod	Compact cities: Sustainable urban forms for developing countries	2000	Spon Press, London
3.	Bicknell, Jane	Adapting cities to climate change: understanding and addressing the development Change	2009	Earthscan, London
4.	Andres Duany, Jeff Speck and Mike Lydon	The Smart Growth Manual	2009	McGraw-Hill
5.	David Owen	Green Metropolis: Why Living Smaller, Living Closer, and Driving Less are the Keys to Sustainability	2009	

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List of Exercises / Practicals:	
1	Visit to a Development Authority and submit report, with focus on energy planning.
List of Assignments/Tests:	
1	Test on Unit 1 or Unit 2.
2	Assignment on Unit 3.

INSTRUCTIONS TO QUESTION PAPER SETTER

1. One compulsory question containing five questions of 2 marks (10 marks), each requiring short answers, are to be set from the entire syllabus.
2. The examiner is required to set another six questions (atleast one from each unit), out of which the students are required to attempt any four questions (selectin at least one from each unit).

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DEVELOPMENT FINANCE					
Subject Code: MPUPS1-401	L	T	S	C	Duration: 45 Hrs.
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Course Objectives:					
<ol style="list-style-type: none"> 1. To study Development Finance covering State Finance and Municipal Finance. 2. To analyze Municipal Finance and Investment Planning in relation to Development Activities. 					
Course Outcomes:					
<ol style="list-style-type: none"> 1. Gaining ability to explore efforts to regulate the finances involved in delivery of services in planned units 2. Understanding the governance structure and financial background of the various planning bodies and tools to strengthen them. 3. Gaining understanding of Municipal Finances and Investment Planning. 4. Knowledge to understand the flow of finances from Central to State Governments for any planning project. 					
UNIT-I (10 Hours)					
Overview of Development Finance					
Approaches, concepts, components, process, credit rating.					
UNIT-II (11 Hours)					
State Finance					
Inter-governmental fiscal relationship between Central, State and Urban Local Government.					
UNIT-III (12 Hours)					
Municipal Finance					
Urban fiscal reforms, municipal finance and urban inclusion, Sources of revenues and application of money; Equities; Loans; Debt financing; Municipal Bonds, land and non-land based sources; Structure of finances, fiscal problems and issues of financial management, implications of 74th Constitution Amendment Act for municipal finance, expenditure pattern, Bilateral and multi-lateral lending institutions mobilizing resources for a project - financial resources, land resources, project resources, and other resources.					
UNIT-IV (12 Hours)					
Investment Planning and Financing Mechanism					
Link with spatial plans, process, components, investment needs and budgeting for infrastructure and services. Financing of urban development, infrastructure and services – mechanisms and instruments, subsidy reduction, cost recovery, public private partnerships; Financial appraisal, investment appraisal; Financial Risk – Sources, Measures and perspectives on risk, Sensitivity analysis and pricing and cost recovery mechanism.					
Text / Reference Books:					
S. No.	Name of Authors	Titles of the Book	Edition	Name of the Publisher	
1	Mathur, O.P. and Peterson, George	State Finance Commissions and Urban Fiscal Decentralization in India	2006	NIPFP	
2.	Ministry of Finance	Report of 13 th Finance Commission	2011	Government of India, New Delhi	

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3.	Government of India	73rd and 74th Constitution Amendment, Acts	1992	Government of India, New Delhi
4.	Pandey, K.K.	Stimulating Revenue Base of ULBs in India	2010	IIPA
List of Exercises / Practicals:				
1	Visit to Finance / Budget Section of Local Bodies and submit report.			
List of Assignments/Tests:				
1	Test on Unit 1 or Unit 2.			
2	Assignment on Unit 3.			

INSTRUCTIONS TO QUESTION PAPER SETTER

1. One compulsory question containing five questions of 2 marks (10 marks), each requiring short answers, are to be set from the entire syllabus.
2. The examiner is required to set another six questions (atleast one from each unit), out of which the students are required to attempt any four questions (selecting at least one from each unit).

**MRSPTU M.PLANNING (URBAN PLANNING) SYLLABUS
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LEGAL ISSUES AND PROFESSIONAL PRACTICE

Subject Code: MPUPS1-402

L T S C
3 - 0 3

Duration: 45 Hrs.

Course Objectives:

1. To understand the Interface between Legislation and Urban Planning and to study Basic Concept of Law and Indian Constitution and the requirement of various Acts, Laws, Rules and Regulations related to Urban Planning.
2. To understand the Scope, Nature and Procedure of Professional Practice; prepare consultancy Proposals and Quote Fees and Charges for Professional Work.

Course Outcomes:

1. Gaining ability to explore efforts to regulate the finances involved in delivery of services in planned Developing ability to demonstrate knowledge of how planning intentions are implemented through policies, instruments and controls.
2. Applying awareness of the importance of evidence and argument in preparing planning proposals for sustainable development.
3. Ability to propose planning solutions within the domain of various acts controls and legislations.
4. Capability to work for development addressing fulfillment of needs of all, improving the quality of life of residents.

UNIT-I (10 Hours)

Introduction

Introduction and importance of professional practice in Planning, Interface between policy and legislation pertaining to urban development.

UNIT-II (11 Hours)

Understanding of Law

Concepts, sources, terminologies, significance of law and its relationship to Urban Planning benefits of statutory backing for schemes - eminent domain and police powers; Indian Constitution: concept and contents; provision regarding property rights.

UNIT-III (12 Hours)

Planning Legislation and Policy Formulation and Appraisal

Evolution; An over view of legal tools connected with Urban Planning and Development, Town and Country Planning Act, Improvement Trust Act, Urban Planning and Development Authorities Act – objectives, contents, procedures for preparation and implementation of Regional Plans, Master Plans and Town Planning Schemes. Various Acts related to urban governance, planning and development organizations, land resources, environment protection, and public participation in statutory planning process; Approaches of formulation of policies, appraisal of policies.

UNIT-IV (12 Hours)

Professional Practice

Aims and objectives of professional Institutes, sister bodies, professional role and responsibility of planning consultants, professional ethics, code of conduct and scale of professional charges; Formulation of project proposal and outlines, consultancy agreements and contracts, managerial aspects; Role in inter disciplinary groups: Appreciation of the decision-making processes and the process in relation to varied consultancy assignments of planning.

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Text / Reference Books:				
S. No.	Name of Authors	Titles of the Book	Edition	Name of the Publisher
1.	ITPI	Planning Legislation and professional Practice		ITPI, New Delhi
2.	Bijlani, H.U. & Balachandran	Law and Urban Land	1978	IIPA, New Delhi
3.	GoI	UDPFII Guidelines Vol. 2A	1996	ITPI, New Delhi
4.	GoI	Indian Contract Act 1872; Indian Contract Act 1872; The Arbitration and Conciliation Act 1996. Constitution of India; Constitution (73rd & 74th Amendment) Acts 1992; Model Rent control Legislation; Slum (Improvement and Clearance) Act 1956; Land Acquisition Act 1894 and amendments thereof; NCR Planning Board Act, Environment (Protection) Act 1986; Model Town Planning and Regional Planning Development Law; and other acts		
5.	Government of Maharashtra	Maharashtra Regional and Town Planning Act 1966		
6.	Government of various States	State Acts related town planning, Slum clearance, municipalities, development authorities, etc.		
7.	Kulshrestha, S. K.	Urban and Regional Planning in India: Handbook for Professional Practice	2012	Sage Publications, New Delhi
8.	ITPI	Conditions of Engagement of Professional Services and Scale of Professional Fee and Charges	2011	ITPI, New Delhi
9.	CPWD	CPWD Manual 2012	2012	CPWD, New Delhi
List of Exercises / Practicals:				
1	Visit to the office of a Senior Planning Professional and submit report, on professional practice.			
List of Assignments/Tests:				
1	Test on Unit 1 or Unit 2.			
2	Assignment on Unit 3 or Unit 4.			

INSTRUCTIONS TO QUESTION PAPER SETTER

- One compulsory question containing five questions of 2 marks (10 marks), each requiring short answers, are to be set from the entire syllabus.
- The examiner is required to set another six questions (at least one from each unit), out of which the student are required to attempt any four questions (selecting at least one from each unit)

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2022 BATCH ONWARDS**

THESIS			
Subject Code: MPUPS1-403	L T S C	Duration: 180 Hrs.	
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Course Objectives: <ol style="list-style-type: none"> 1. To develop a basic understanding of the area chosen for study (by carrying out a detailed literature review). 2. To undertake detailed exploration of the topic (by way of surveys and studies). 3. To identify issues and concerns those emerge out of the study and suggest recommendations. 			
Course Outcomes: <ol style="list-style-type: none"> 1. Conceptualizing problems from complex, real-world situations so the problems are meaningful to the intended audience and research-worthy 2. Identifying and summarize appropriate peer-reviewed literature relevant to a proposed area of research 3. Preparing constructive, tactful feedback to help colleagues improve their writing 4. Using various techniques for effective data identification and collection through current practices. 			
UNIT-I (180 Hours)			
The students are required to carry out independent research and prepare a thesis on a topic on urban planning selected by them and approved the faculty under the supervision of a research guide allocated by the department.			

Text / Reference Books:				
S. No.	Name of Authors	Titles of the Book	Edition	Name of the Publisher
1.	Brubaker, D.L. and Thomas, R.M.	Thesis and Dissertations: A Guide to Planning, Research and Writing.	-	-
2.	Rowena Murray	How to Write a Thesis (3 rd Edition)	-	Open University Press
3.	F. Abdul Rahim	Thesis Writing	2005	New Age International (P) Limited Publishers, N.D
4.	Kastens, K.Pfirman, S., Stute, M., Abbott,D. and Scholz, C.	How to Write Your Thesis	-	Colombian University
5.	Bracken, I.	Urban Planning Methods, Research and Policy Analysis	2008	Routledge
6.	Wang, X., Von Hofpe, R.	Research Methods in Urban and Regional Planning	2007	Springer
List of Exercises / Practicals:				
1	Field visit to Collect Data on selected Topic of Research.			
List of Assignments/Tests:				
1	Marked Reviews at different Stages of completion of Research work.			
2	Internal and External Jury.			

***One research paper is to be written on the Thesis work carried out and presented to his/her supervisor and the Department Research Committee (DRC). The paper, if approved, shall be communicated for publication in the journal recommended by DRC**