

**Faculty of Architecture & Planning, Lucknow, Tagore Marg Campus-226007**  
**Masters in Urban & Regional Planning (MURP)**  
**Proposed Syllabus 2019-20**  
**1<sup>ST</sup> SEMESTER**

Name of the Course: <b>Masters in Urban &amp; Regional Planning (MURP): First Semester</b>		
Name of the Subject: <b>PLANNING THEORY AND TECHNIQUES</b>		
Subject Code: <b>MPL 101</b>	Semester: <b>First</b>	
Duration: <b>16 weeks (48 Hours)</b>	Maximum Marks: <b>100</b>	Credits: <b>3</b>
<b>Teaching Scheme</b>	<b>Examination Scheme</b>	
Lecture : <b>2 hrs. /week</b>	External Assessment: <b>Marks 50</b>	
Tutorial : <b>1 hr. /week</b>	Internal Assessment: <b>Marks 50</b>	
Aim: <b>To study History, Theory and Techniques of Urban and Regional Planning.</b>		
<b>Contents</b>		
		Hrs.
Unit - 1	<b>Evolution of City Building</b> 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.	
Unit - 2	<b>Planning History</b> Town planning in ancient India; 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, etc., Dynamics of the growing city, impact of industrialization and urbanization, metropolis and megalopolis.	
Unit - 3	<b>Definitions and Objectives of Planning</b> Definitions of town and country planning; Orthodoxies of planning; Goal formulation, objective, scope, limitations; Sustainability and rationality in planning; Components of sustainable urban and regional development.	
Unit – 4	<b>Theories of City Development and Planning Theories</b> 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, Role of Goals and Objectives	

Unit – 5	<p><b>Survey Techniques and Analytical Models</b></p> <p>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.</p> <p>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</p>
Unit – 6	<p><b>Demographic methods and Planning Standards</b></p> <p>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.</p> <p>Spatial standards, performance standards and benchmarks, and variable standards; UDPFI guidelines, zoning regulations and development control rules and regulations.</p>

**Text / 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. Fifth Edition.
9	Margaret Robert	A introduction to town	1974	Hutchinson Educational,

		planning techniques		University of California
10	Lewis B. Keeble	Principles and practice of town planning	1967	Estates Gazette
11	Ian Braken	Urban Planning Methods	2007	Routledge,
12	Kruekeberg D. A. and Silvers A. A.	Urban Planning Analysis	1988	John Willey and Sons Inc.
<b>List of Exercises / Practical:</b>				
1	Visit to Planning Organization / Department and submit Report on adoption of Concepts and Theories by them.			
2	Visit to a Local Body / Development Authority and submit report with relevance to adoption of Planning Techniques by them.			

Name of the Course: <b>Masters in Urban &amp; Regional Planning (MURP): First Semester</b>				
Name of the Subject: <b>SOCIO - ECONOMIC PLANNING</b>				
Subject Code: <b>MPL 102</b>		Semester: <b>First</b>		
Duration: <b>16 weeks (48 Hours)</b>		Maximum Marks: <b>100</b>		Credits: <b>3</b>
<b>Teaching Scheme</b>		<b>Examination Scheme</b>		
Lecture : <b>2 hrs. /week</b>		External Assessment: <b>Marks 50</b>		
Tutorial : <b>1 hr. /week</b>		Internal Assessment: <b>Marks 50</b>		
Aim: <b>To develop understanding with relevance to Socio-economic Issues in Urban and Regional Planning.</b>				
<b>Contents</b>				<b>Hrs.</b>
Unit - 1	<b>Nature and Scope of Sociology</b> 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 - 2	<b>Community and Settlements</b> Social problems of slums and squatter 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 - 3	<b>Elements of Micro and Macro Economics</b> 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 - 4	<b>Development Economics and Lessons from Indian Experiences</b> 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.			
<b>Text / Reference Books:</b>				
<b>S. No.</b>	<b>Name of Authors</b>	<b>Titles of the Book</b>	<b>Edition</b>	<b>Name of the Publisher</b>
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 / Practical:**

1.	Visits to a Village / Small town to ascertain Socio-economic Impact of Development and submit Report.
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Name of the Course: <b>Masters in Urban &amp; Regional Planning (MURP): First Semester</b>		
Name of the Subject: <b>TRAFFIC &amp; TRANSPORT PLANNING</b>		
Subject Code: <b>MPL 103</b>	Semester: <b>First</b>	
Duration: <b>16 weeks (48 Hours)</b>	Maximum Marks: <b>100</b>	Credits: <b>3</b>
<b>Teaching Scheme</b>	<b>Examination Scheme</b>	
Lecture : <b>2 hrs. /week</b>	External Assessment: <b>Marks 50</b>	
Tutorial : <b>1 hr. /week</b>	Internal Assessment: <b>Marks 50</b>	
<b>Aim: To study the Elements of Infrastructure and Role of Transport in Urban and Regional Planning.</b>		
<b>Contents</b>		<b>Hrs.</b>
Unit - 1	<b>Introduction to Basic Concepts</b> Definition, concepts, scope and utility of traffic engineering; relationship between the traffic flow variables, fundamental diagrams of traffic flow ; Definition of capacity and level of service, factors affecting capacity and level of service, static and dynamic PCU, Design service volume, capacity norms for urban roads with different widths.	
Unit - 2	<b>Design of Urban Road Infrastructure</b> Urban Road cross-sectional elements- right of way, carriageway, median, service lane, footpath, curb, camber, side slope, service road etc. for different hierarchy of urban roads; geometry of horizontal curves and vertical curves of urban roads, super elevation, sight distance, access control etc. along urban roads ; Street Lightings types and design ; guard rails; traffic signs and marking; NMT facilities, road landscape design features on urban roads.	
Unit - 3	<b>Design of Intersections</b> Types of intersections, visibility, Design principles – alignment and vertical profile, visibility, radii of curves, channelization; roundabouts- capacity and design; capacity of signalized intersection; Grade separated intersection design elements- ramp gradient, acceleration and deceleration lanes ,weaving sections, etc..	
Unit - 4	<b>Traffic Management Systems and Safety</b> Introduction to traffic signals, warrant for signals, phasing and inter green period, saturation flow, optimization of signals, Vehicle actuated signal facilities, co-ordination of traffic signal, area traffic control system; Basic principles of regulation and its enforcement; Traffic management measures, Transport System Management techniques, Road safety- collection and analysis of accident data, accident prevention strategies.	
Unit - 5	<b>Transport Infrastructure Planning, Management and Design</b> Role of transport, types of transport systems, evolution of transport modes, transport problems and mobility issues; Urban form and Transport patterns, land use – transport cycle, concept of accessibility; Hierarchy, capacity and geometric design elements of roads and intersections; Basic principles of Transport infrastructure design; Traffic and transportation surveys and studies, traffic and travel characteristics; Urban transport planning process – stages, study area, zoning, data base, concept of trip generation Transport, environment and safety issues;	

	principles and approaches of traffic management, transport system management.	
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**Text / Reference Books:**

S. No.	Name of Authors	Titles of the Book	Edition	Name of the Publisher
1	Papacostar, C.S. and Prevedons	Transportation Engineering and Planning	2001	Prentice Hall of India
2.	Kaliyali, L.R.	Transport Planning and Traffic Engineering		Khanna publishers
3.	O'Flaherty, C.A.	Transport Planning and Traffic Engineering		Butterworth Heinerman, An Imprint of Elsevier
4.	Mohinder Singh and L.R. Kadiyali	Crisis in road transport	1989	Konark Publishers Pvt. Ltd. , New Delhi
5.	L. R. Kadiyali	Traffic engineering and transportation planning	2007	Khanna Publishers, New Delhi

**List of Exercises / Practical:**

1	Visit to Traffic and Transport Section of Local Bodies / Development Authority and submit report on the aspect of Design.
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Name of the Course: <b>Masters in Urban &amp; Regional Planning (MURP): First Semester</b>				
Name of the Subject: <b>ENVIRONMENTAL PLANNING &amp; MANAGEMENT</b>				
Subject Code: <b>MPL 104</b>		Semester: <b>First</b>		
Duration: <b>16 weeks (48 Hours)</b>		Maximum Marks: <b>100</b>		Credits: <b>3</b>
<b>Teaching Scheme</b>		<b>Examination Scheme</b>		
Lecture : <b>2 hrs. /week</b>		External Assessment: <b>Marks 50</b>		
Tutorial : <b>1 hr. /week</b>		Internal Assessment: <b>Marks 50</b>		
<b>Aim: To study Theory of Environmental Planning and management.</b>				
<b>Contents</b>				<b>Hrs.</b>
Unit – 1	<b>Concepts of Ecology, Ecosystem and Environmental Planning</b> History of Environmental Planning, Development of habitat patterns, settlement structure and form in response to environmental challenges; Concepts of Ecology and Ecosystem, Urban Ecosystem.			
Unit – 2	<b>Resource Analysis and Conservation</b> Resource analysis for various ecosystems and development imperatives (land, geology, soil, climate, water, vegetation) characteristics, exploitation, causative factors for degradation, analytical techniques.			
Unit – 3	<b>Environmental Zones</b> Environmental Zones (Hill, Coastal, Arid), characteristics, resources, settlements pattern, problems and potentials, regulating mechanisms for development.			
Unit – 4	<b>Environmental Policies, Significant Conventions, Conferences</b> Environmental Policies and initiatives including policies, strategies, protocols, treaties and agreements.			
Unit – 5	<b>Environmental Management, Appropriate Technologies &amp; Management</b> Resource Management: Including management of land, water bodies and water channels, forests and wildlife, minerals. Management of Urban Areas; Management of sensitive areas – hills, coasts, arid, wetlands etc. (including participatory approaches); management of Watersheds. Techniques and case studies related to water harvesting, water treatment, recycling, waste disposal, waste minimization, and their implications. Low cost and cleaner technologies. Models of Collaboration Environmental Planning.			
Unit – 6	<b>Alternate Energy Technologies</b> Technologies related to alternate energy- Solar, Biomass, Biogas, Hydro, Wind, Nuclear and their usefulness for environment.			
<b>Text / Reference Books:</b>				
S. No.	Name of Authors	Titles of the Book	Edition	Name of the Publisher
1.	Andrews, Goudie	The Human Impact on the Natural Environment – Past, Present and Future	2006	Wiley Publishers



2.	James K. Lein	Integrated Environmental Planning	2002	Wiley Publishers
3.	V.H. Dale, Mary R. English	Tools to Aid Environmental Decision Making	Latest Edition	Swinger
4.	William Fox, Enslin Van Rooyen (eds.)	The Quest for Sustainable Development	2004	Juta & Co. Ltd., Cape Town.
5.	J.S. Singh, S.P.	Ecology Environment and	2008	Anamaya Publishers, New
6.	UNEP	Environmental Guidelines for Settlement Planning and Management	Latest Edition	UNCHS, UNEP (Habitat), Kenya
7.	Peter P. Rodgers, Kazi F. Jalal and John A. Boyd	An Introduction to Sustainable Development	2008	Prentice Hall of India
8.	Frank B. Friedman	Practical Guide to Environmental Management	9 <sup>th</sup> Edition	Environmental Law Institute, Washington.
9.		Publications of Central Pollution Control Board on Air, Water and Noise Pollution, Waste Management		<a href="http://www.cpcb.nic.in">www.cpcb.nic.in</a>
10.		New and Renewable Energy Sources		<a href="http://www.mnre.nic.in">www.mnre.nic.in</a>
11.	Eugene Odum, Murray Barrick, Gary W Barrett	Fundamentals of Ecology	2005	Cengage
<b>List of Exercises / Practical:</b>				
1	Visit to Public Health Engineering Department of Local Bodies / Development Authority / State Government and submit report.			

Name of the Course: <b>Masters in Urban &amp; Regional Planning (MURP): First Semester</b>		
Name of the Subject: <b>HOUSING, RESETTLEMENT &amp; REHABILITATION</b>		
Subject Code: <b>MPL 105</b>	Semester: <b>First</b>	
Duration: <b>16 weeks (48 Hours)</b>	Maximum Marks: <b>100</b>	Credits: <b>3</b>
<b>Teaching Scheme</b>		<b>Examination Scheme</b>
Lecture : <b>2 hrs. /week</b>	External Assessment: <b>Marks 50</b>	
Tutorial : <b>1 hr. /week</b>	Internal Assessment: <b>Marks 50</b>	
<b>Aim: To provide an Exposure to the Basic Housing and Planning Concepts and Issues.</b>		
<b>Contents</b>		
		Hrs
Unit - 1	<p><b>Concepts and Definitions</b></p> <p>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.</p>	
Unit - 2	<p><b>Urban Housing</b></p> <p>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.</p>	
Unit - 3	<p><b>Housing policies and programs in India</b></p> <p>Refugee settlements, employee housing program, National Housing Policy 1988, NHP1994, National Housing and Habitat Policy 1998, National Urban HHP 2007, National Rural Housing and Habitat Policy.</p> <p>Programs: Rajiv Awas Yojana, Indira Awas Yojana, Pradhan Mantri Awas Yojana etc.</p>	
Unit - 4	<p><b>Land Development and Resultant Resettlement</b></p> <p>Land Acquisition Models and Practices in India and elsewhere for projects. Compulsory Acquisition, land sharing and adjustment models, land pooling, negotiated land acquisition. Development induced relocation – voluntary and involuntary resettlement; Resettlement and Rehabilitation Policies. Policies of multi-lateral / bilateral funding institutions: World Bank, Asian Development Bank Policies, National Policy on Resettlement and Rehabilitation and State Policies on R and R and Sector Specific Policies in large projects such as Multi-Purpose Dam Projects, Mining projects, Highway projects, SEZ, etc., Land Acquisition Act 1987, Land Acquisition, Rehabilitation and Resettlement Act 2013</p>	
Unit - 5	<p><b>Impact of Resettlement and Rehabilitation (R and R) Plan</b></p> <p>Poverty and Social Impact Assessment for Development projects: Linear Projects (Roads, railways, etc.), vis-à-vis non-linear projects (Township / industrial area development, dams, forests). Impact on vulnerable and indigenous groups: Project</p>	

	Affected People and Project Affected Assets, Impact on Women and Children, Gender Action Plans. Resettlement Plan: Context, content, structure, principles and practices: Economic, social and physical implications of resettlement and rehabilitation. Resettlement options and strategies, Self-relocation and project facilitated relocation; Case studies in Resettlement and Rehabilitation in Development Sectors: Mining, Highways, Power, industrial and township development. Flood affected areas and other infrastructure projects such as Mumbai Transport Project.			
Unit - 6	<b>Participation as an Important Tool for Resettlement and Rehabilitation</b> Use of Participatory tools for Resettlement Planning. Institutional arrangements for R and R – Role of NGOs / CBOs and other local, state, national and international organizations in resettlement and rehabilitation, Monitoring and Evaluation of R & R interventions.			
<b>Text / Reference Books:</b>				
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
<b>List of Exercises / Practical:</b>				
1	Visit to Regional Office of HUDCO or State Housing Board and submit report.			

Name of the Course: <b>Masters in Urban &amp; Regional Planning (MURP): First Semester</b>		
Name of the Subject: <b>PLANNING STUDIO-I</b>		
Subject Code: <b>MPL 106</b>	Semester: <b>First</b>	
Duration: <b>16 weeks (160 Hours)</b>	Maximum Marks: <b>500</b>	Credits: <b>10</b>
<b>Teaching Scheme</b>	<b>Examination Scheme</b>	
Tutorial : <b>3 hrs. / week</b>	External Assessment (Viva only): <b>Marks 250</b>	
Practical : <b>7 hrs. / week</b>	Internal Assessment (TA only): <b>Marks 250</b>	
<b>Aim: To provide Appreciation of Site Planning, Area Planning, and Local Area Development Plan.</b>		
<p><b>First Assignment</b></p> <p><b>Film Appreciation (Individual Assignment)</b></p> <p>Films related to city development and socio-economic issues will be screened for students. The purpose of these films is to educate the students' understanding of various development issues and to absorb them in the planning practice. At the end of the film, a discourse around the film will also be held. After viewing the films, each student is expected to write about its main focus, city / region context, its applicability to Indian environment by answering the given questions in not more than half a page.</p> <p><b>Second Assignment</b></p> <p><b>Literature Review (Individual Assignment)</b></p> <p>Each student is expected to read the article given from a journal / book and write a summary of not more than a page (250 words only) highlighting the problem, approach, methodology, analysis, how the author arrived at the conclusion and its relevance to Indian context. There will be a negative marking for writing the same text as in the original (that is copying from the original text given to them).</p> <p><b>Third Assignment</b></p> <p><b>Area Appreciation (Group Assignment)</b></p> <p>The aim of the area appreciation exercise is to enable the students to understand and contextualize the location of the area in relation to the city, zone and area in which the particular place is situated. This is done in relation to the socio-economic, spatial and cultural characteristics of that city, zone, location, etc. The main purpose is to make the students appreciate the locational attributes of land parcels for future development in a city.</p> <p>Due to the size of the area, this exercise is done in groups of students being assigned to a particular area.</p> <p>The following planning issues at area level should be identified:</p> <ul style="list-style-type: none"> <li>• Review of the Master Plan / Zonal / Area plan in relation to the selected areas.</li> <li>• Appreciation / Analysis of ward level data.</li> <li>• Perception of areas in terms of legal / illegal / authorized / unauthorized, Slums, Urban Aesthetics.</li> <li>• Social Categorizations of people - Type of population living, people's perception about area and its planning problems.</li> </ul> <p><b>Fourth Assignment</b></p> <p><b>Site Planning (Individual Assignment)</b></p> <p>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</p>		

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.

**Fifth Assignment**

**Local Area Development Plan (Group Assignment)**

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

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

<b>Text / Reference Books:</b>				
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
<b>List of Exercises / Practical:</b>				
1	Visit to Local Planning Agency and Field Visit for Data Collection and submit Report.			

<b>2<sup>nd</sup> SEMESTER</b>		
Name of the Course: <b>Masters in Urban &amp; Regional Planning (MURP): Second Semester</b>		
Name of the Subject: <b>METROPOLITAN &amp; REGIONAL PLANNING</b>		
Subject Code: <b>MPL 201</b>	Semester: <b>Second</b>	
Duration: <b>16 weeks (48 Hours)</b>	Maximum Marks: <b>100</b>	Credits: <b>3</b>
<b>Teaching Scheme</b>	<b>Examination Scheme</b>	
Lecture : <b>2 hrs. /week</b>	External Assessment: <b>Marks 50</b>	
Tutorial : <b>1 hr. /week</b>	Internal Assessment: <b>Marks 50</b>	
<b>Aim: To study the Growth of Metro and Mega Cities and their relationship with their respective Regions; and spatial planning approaches for their Planned Development.</b>		
<b>Contents</b>		
		<b>Hrs.</b>
Unit – 1	<p><b>Urban Growth and System of Cities</b> Growth of cities scale, complexity and its impact on national development, cities as engines of growth, cities as ecosystems, resources in cities. Concepts, approaches, strategies and tools; Policies and programs at various levels, impact on metro and mega city development.</p>	
Unit – 2	<p><b>City – Region Linkages</b> City, fringe and the periphery - physical and functional linkages, peri-urban development.</p>	
Unit – 3	<p><b>Metro and Mega Cities: Problems and Issues</b> 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.</p>	
Unit – 4	<p><b>Concepts and Typology of Regions and Regional Dynamics</b> Basic Concepts in Regions, Defining a region: fluidity and purposiveness, Typology of Regions: Resource Regions, Mega, Macro, Meso, and Micro Regions; Regional Dynamics: Growth of Mega and Metro Regions: Scale, Complexity and its impact on national and international scenario, convergence and divergence. Regional Economy, competitiveness among regions, backward and leading regions in development; Special Regions: SEZ, Agro Regions, Ecological regions, etc. Core, Fringe and Periphery in a Region and its planning; Tools and techniques available for planning regions in India; Role of 73<sup>rd</sup> and 74<sup>th</sup> Constitution Amendment Acts in regional plan preparation and implementation.</p>	
Unit – 5	<p><b>Regions, Resources in India and Its Planning</b> Regions in Indian Context: Resource Regions, Corridors as regions, National, sub-national and State as a region, macro, meso and micro regions in India. Case Studies from India: NCR and Delhi Mega Region, Mumbai Mega Region, Kolkata Metro Region, Chennai Metro Region, and other Metro Regions in India. Western and Eastern Ghats, North Eastern Region, Coastal Regions, and River Valley Regions; Corridors: Golden Quadrilateral, Delhi-Mumbai, Chennai-Bangalore Industrial Corridor, North-South and East-West Corridor Regions.</p>	

<b>Text / Reference Books:</b>				
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	Balisacan, Arsenio M., Hill, Hal, (ed)	The Dynamics of Regional Development: The Philippines in East Asia	2007	ADB Institute and Edward Elgar Publishing Ltd., Cheltenham, USA
7	Chaudhuri, Ray Jayasri	An Introduction to Development and Regional Planning with special reference to India	2001	Orient Longman Ltd., Kolkata
8	TCPO	Urban and Regional Planning and Development in India	1996	TCPO, New Delhi
9	Carter, Harold	The Study of Urban Geography	1995	Edward Arnold,
10	R.P. Misra	Regional Planning, Concept, Techniques, Policies and Case Studies	2002	Concept Publishing Company, New Delhi.
11	John Glasson and Tim Marshall	Regional Planning	2007	Routledge, Oxford shire.
12	Peter Hall and Mark Tewdwr-John	Urban and Regional Planning	2008	Routledge, New York
13	Jayasri Roy Choudhuri	An Introduction to Development and Regional Planning	2001	Orient Longman Ltd, Kolkata.
<b>List of Exercises / Practical:</b>				
Visit to Regional Development Authority and submit report.				

Name of the Course: <b>Masters in Urban &amp; Regional Planning (MURP): Second Semester</b>				
Name of the Subject: <b>INFRASTRUCTURE PLANNING &amp; MANAGEMENT</b>				
Subject Code: <b>MPL 202</b>		Semester: <b>Second</b>		
Duration: <b>16 weeks (48 Hours)</b>		Maximum Marks: <b>100</b>		Credits: <b>3</b>
<b>Teaching Scheme</b>		<b>Examination Scheme</b>		
Lecture : <b>2 hrs. /week</b>		External Assessment: <b>Marks 50</b>		
Tutorial : <b>1 hr. /week</b>		Internal Assessment: <b>Marks 50</b>		
<b>Aim: To study the Significance of Infrastructure in Urban and Regional Planning and Development.</b>				
<b>Contents</b>				
				Hrs.
Unit – 1	<b>Water Supply and Sanitation</b> Quantity and quality, source of supply, transmission and distribution, treatment methods, design guidelines. Sanitation – concepts, disposal systems, low cost sanitation options; engineering aspects of sewage disposal; Wastewater – generation, disposal system Storm water drainage – systems			
Unit – 2	<b>Solid Waste Disposal and Management</b> Basic principles, generation, characteristics, collection, disposal, management.			
Unit – 3	<b>Fire and Electrification</b> Planning for fire protection, services and space standards, location criteria;			
Unit – 4	<b>Traffic and Transportation</b> Planning for infrastructure and facilities for transport			
Unit – 5	<b>Social Infrastructure and Green Infrastructure</b> Planning for Education, health, civic, cultural infrastructure, Planning for Green Infrastructure			
<b>Text / Reference Books:</b>				
S. No.	Name of Authors	Titles of the Book	Edition	Name of the Publisher
1	Gathe Donald E.; Billings, R. Bruce; Buras, Nathan,	Managing urban water supply	2003	Dordrecht, Kulwer Academic Press.
2	Ghosh, G.K.	Water of India	2000	A.P.H. Publishing Corporation
3	Yadav, Satish	Water Problems and its Management,	2004	Hope India Publications
4	W'Mays Larry	Urban Water Supply Handbook	2002	McGraw Hill Handbook
5	Butter, David	Urban Drainage	2004	David Butter & John W. Davis Spon Press (IInd Edition) London & New York, 2004.
6.	Nathanson, J.A.; John, P.E., Wiley & Sons, N.R. Brisbane	Basic Env. Technology: Water Supply, Waste Disposal & Pollution Control.	1986	
7.	Bandela, N.N.; Tare, D.G.	Municipal Solid Waste Management	2009	B.R. Publishing



8.	Holmes, J.R.	Manual on Municipal Solid Waste Management, , The Expert Committee Gol, MoUD, CPNEEO 2000 Managing Solid Waste in Developing Countries	1984	John Pub. John Wiley & Sons, Singapore.
<b>List of Exercises / Practical:</b>				
1	Visit to a Infrastructure Development Agency and submit report.			

Name of the Course: <b>Masters in Urban &amp; Regional Planning (MURP): Second Semester</b>				
Name of the Subject: <b>REMOTE SENSING &amp; GIS APPLICATION</b>				
Subject Code: <b>MPL 203</b>		Semester: <b>Second</b>		
Duration: <b>16 weeks (48 Hours)</b>		Maximum Marks: <b>100</b>		Credits: <b>3</b>
<b>Teaching Scheme</b>		<b>Examination Scheme</b>		
Lecture : <b>2 hrs. /week</b>		External Assessment: <b>Marks 50</b>		
Tutorial : <b>1 hr. /week</b>		Internal Assessment: <b>Marks 50</b>		
<b>Aim: To study the significance of Remote Sensing &amp; GIS application</b>				
<b>Contents</b>				
				Hrs.
Unit – 1	<b>Introduction to Remote Sensing</b> Introduction to Remote Sensing – Aerial and Satellite, Spatial data and Attribute data; Remote Sensing, advantages and applications, remote sensing platforms and sensors,			
Unit – 2	<b>Application of Remote Sensing</b> remote sensing data products, digital data formats and characteristics, visual image interpretation methods, digital image classification methods, geometric and radiometric corrections			
Unit – 3	<b>Introduction to GIS</b> Introduction to GIS Spatial data structures, vector and raster; spatial analysis and decision making using GIS; Environmental data sources; Exposure to Environmental Information System (ENVIS), Satellite images as input to GIS; Collection and presentation of baseline information.			
Unit – 4	<b>Application of GIS</b> Digital representation of geographic data, digitization of features, database creation, raster and vector based GIS data, overlay analysis, buffering, query, spatial analysis and 3D analysis. National Spatial Data Infrastructure in India, National Urban Information System, National Map Policy			
<b>Text / Reference Books:</b>				
S. No.	Name of Authors	Titles of the Book	Edition	Name of the Publisher
1.	Peter Geoffrey Hall	Cities of Tomorrow: An Intellectual History of Urban Planning and Design in the Twentieth Century	1996 Updated Edition	Blackwell Publishing
2.	Ian L. McHarg	Design With Nature	1995	Wiley
3.	John Randolph	Environmental Land Use Planning and Management	1 <sup>st</sup> Edition 2003	Island Press
4.	De Roo, Gert; Miller, Donald,	Compact cities and sustainable urban development: Critical assessment of policies & plans from an international perspective	2000	Ashgate Publishing
<b>List of Exercises / Practical:</b>				

1	Visit to a case study town and submit report on EIA.
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Name of the Course: <b>Masters in Urban &amp; Regional Planning (MURP): Second Semester</b>		
Name of the Subject: <b>PLANNING LEGISLATION &amp; URBAN GOVERNANCE</b>		
Subject Code: <b>MPL 204</b>	Semester: <b>Second</b>	
Duration: <b>16 weeks (48 Hours)</b>	Maximum Marks: <b>100</b>	Credits: <b>3</b>
<b>Teaching Scheme</b>		<b>Examination Scheme</b>
Lecture : <b>2 hrs. /week</b>	External Assessment: <b>Marks 50</b>	
Tutorial : <b>1 hr. /week</b>	Internal Assessment: <b>Marks 50</b>	
<b>Aim: To study the Role of Government, Private Sector and the Third Sector for Governance of Cities and Regions.</b>		
<b>Contents</b>		
<b>Unit - 1</b>	<b>Overview of Urban Governance</b> Definition, concepts, components, government and governance, hierarchy and structure, forms of governance, process of inclusion and exclusion,	<b>Hrs.</b>
<b>Unit - 2</b>	<b>Legislations pertaining to Urban Governance</b> Institutional frame and mechanism for urban governance as envisaged in the 73rd and 74th Constitution Amendment Acts.	
<b>Unit - 3</b>	<b>Institutions and Organizations</b> 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.	
<b>Unit - 4</b>	<b>Urban Local Governance and Participatory Processes</b> System, structure, functions, powers, process and resource, performance, interface with NGO's, other agencies. Stakeholders' participation, roles and responsibilities, access to government by various stakeholders.	
<b>Unit - 5</b>	<b>Law, Indian Constitution Evolution of Planning Legislation</b> Sources of law: custom, legislation and precedent; Meaning and terms of law: legislation, ordinance, bill, act, regulation, and bye-laws; Significance of law and its relationship to urban and regional planning, benefit of statutory backing, eminent domain powers and police powers; Concepts and contents related to planning, provision regarding property rights, legislative competence of Local, State and Central government to deal with various matters concerning Town and Country Planning; An over view of legal tools connected with urban and regional planning and development. Town and Country Planning Act, Improvement Trust Act, Development Authorities Act: objectives, content, procedures for provision an implementation of regional plans, master plans and town planning schemes; Concept of Arbitration, betterment levy development charges and public participation in statutory planning process, concept of structure plan, local plan and action plan under the Law. National Environmental Policy Act; Environmental Protection Act; Land Acquisition Act: Concepts, procedure for compulsory acquisition of property and determination of compensation. Acts pertaining to SEZ; disaster management, and legal aspects of innovative techniques such as Transfer of Development Rights, Accommodation Reservation (AR), Air Rights, etc.	

Unit - 6	<p><b>Habitat Laws and Significance, Development Control &amp; Professional Practice</b>  Laws relating to Slum Clearance, environment, housing, landscape and traffic, Laws relating to conservation and restoration, historical monuments, archaeological sites and remnants of national importance; contract management and execution of projects; Objectives of legal tools, critical evaluation of zoning, sub-division regulations, building regulations and bye-laws, development code zoning, periphery control, land conversion in the peri-urban areas.  Aims and objectives of professional institute, sister bodies, professional role and responsibility of planning consultants, professional ethics and code of conduct and scale of professional charges. International Agreements (GATT and WTO) and its impact in India. Formulation of Consultancy project proposal and outlines (EOI, RFP, etc); Formulation of Consultancy Contract Agreement and Contract Management Scale of Professional Charges, and Collaborative projects; Role of Inter-Disciplinary groups; appreciation of decision making process and the process in relation to varied consultancy assignments in planning. Management of office and personnel.</p>				
<b>Text / Reference Books:</b>					
S. No.	Name of Authors	Titles of the Book	Edition	Name of the Publisher	
1	Rhodes, R.A.W.	Understanding Governance: policy networks, governance, reflexivity and accountability.	1997	Open University Press, Maidenhead, GB, Philadelphia	
2	Jayal, N.G., Prakash, A. and Sharma, P.K.	Local Governance in India: decentralization and beyond.	2006	Oxford University Press, New Delhi	
3	Baud, I.S.A. and Wit, J. de	New Forms of Urban Governance in India: shifts, models, networks and contestations	2008	Sage New Delhi.	
4.	Gol.	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
<b>List of Exercises / Practical:</b>				
1	Visit to Legal Section or Division of Local Body / Development Authority or Senior Legal Advisor dealing with Planning Legislation and submit report.			

Name of the Course: <b>Masters in Urban &amp; Regional Planning (MURP): Second Semester</b>				
<b>Name of the Subject: INCLUSIVE PLANNING (ELECTIVE-I)</b>				
Subject Code: <b>MPL 205-A</b>		Semester: <b>Second</b>		
Duration: <b>16 weeks (48 Hours)</b>		Maximum Marks: <b>100</b>		Credits: <b>3</b>
<b>Teaching Scheme</b>		<b>Examination Scheme</b>		
Lecture : <b>2 hrs. /week</b>		External Assessment: <b>Marks 50</b>		
Tutorial : <b>1 hr. /week</b>		Internal Assessment: <b>Marks 50</b>		
<b>Aim: To study the various Forms, Arenas and Uses of Inclusion in the Processes of Urban and Regional Planning.</b>				
<b>Contents</b>				<b>Hrs</b>
Unit - 1	<b>Understanding Inclusive Planning</b> Definitions and components			
Unit - 2	<b>Stakeholders Profile and Needs, Access to Shelter, Services and Livelihoods</b> 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			
Unit - 3	<b>Participatory Planning Process and Policies, Programmes and Legislation</b> Methods, role of stakeholders (including civil society organizations), etc.; Related Acts, Five year plans, policies and programmes at various levels.			
Unit - 4	<b>Planning interventions</b> Inclusive zoning, development and building regulations, Slum Improvement.			
<b>Text / Reference Books:</b>				
S. No.	Name of Authors	Titles of the Book	Edition	Name of the Publisher
1	Datta, A.	The Illegal City: Space, Law and Gender in a Delhi Squatter Settlement,	2012	Ashgate, Burlington.
2	Roy, A. and Ong, A. (Eds.)	Worlding Cities: Asian Experiments and the Art of Being Global	2011	Wiley Blackwell, London.
3	Eijk, G.V.	Unequal Networks: Spatial Segregation, Relationships and Inequality in the City	2010	IOS Press, Amsterdam.
4	Harriss, J.	Antinomies of Empowerment: Observations on Civil Society, Politics and Urban Governance in India, Economic and Political	2007	
		Weekly, Vol.42, No.26, pp.2716-2724.		
<b>List of Exercises / Practical:</b>				
1	Visit to a Local Body / Authority and submit a Report with focus on Inclusive Planning being practiced by them.			

Name of the Course: <b>Masters in Urban &amp; Regional Planning (MURP): Second Semester</b>				
Name of the Subject: <b>ADVANCED TRANSPORT PLANNING (ELECTIVE-I)</b>				
Subject Code: <b>MPL 205-B</b>		Semester: <b>Second</b>		
Duration: <b>16 weeks (48 Hours)</b>		Maximum Marks: <b>100</b>		Credits: <b>3</b>
<b>Teaching Scheme</b>		<b>Examination Scheme</b>		
Lecture : <b>2 hrs. /week</b>		External Assessment: <b>Marks 50</b>		
Tutorial : <b>1 hr. /week</b>		Internal Assessment: <b>Marks 50</b>		
<b>Aim: To study Planning of Advanced Urban Transport.</b>				
<b>Contents</b>				
				Hrs.
Unit - 1	<b>Urban Transport Trends and Policies</b> Urbanization trends, urban transport systems in various cities, impact of urbanization on urban transportation; mobility trends and issues; Urban transport policies and issues related to sustainability; strategies for urban transport improvement; international best practices.			
Unit - 2	<b>Urban Transport and Land Use</b> Urban forms and structure and its impact on travel pattern, land use -transport cycle, concept of accessibility and its impact on land use, Principles of Land use-transport model			
Unit - 3	<b>Transport Planning Surveys and Studies</b> Urban transport planning process; study area delineation, zoning; data needs; surveys and studies; analytical outputs and their use.			
Unit - 4	<b>Transport Demand Modeling</b> Aggregate demand modeling approach- trip generation models, trip distribution models and its calibration, modal split models and its calibration, traffic assignment techniques; calibration and validation checks; alternate scenario development, model testing and evaluation; freight generation models.			
<b>Text / Reference Books:</b>				
S. No.	Name of Authors	Titles of the Book	Edition	Name of the Publisher
1.	Black John	Urban Transportation Planning		
2.	Hutchinson, B.G.	Principles of Urban Transportation System Planning		McGraw Hill Book
3.	Bruton, M.J.	Introduction to Transport Planning		
4.	Catanese, A.J.	New Perspective in Urban Transportation Research	1972	Lexington Books
<b>List of Exercises / Practical:</b>				
1	Visit to a Transport Planning Cell / Section of Development Authority and submit report.			

Name of the Course: <b>Masters in Urban &amp; Regional Planning (MURP): Second Semester</b>				
Name of the Subject: <b>PLANNING STUDIO - II</b>				
Subject Code: <b>MPL 206</b>		Semester: <b>Second</b>		
Duration: <b>16 weeks (160 Hours)</b>		Maximum Marks: <b>500</b>		Credits: <b>10</b>
<b>Teaching Scheme</b>		<b>Examination Scheme</b>		
Tutorial : <b>3 hrs. / week</b>		External Assessment (viva only): <b>Marks 250</b>		
Practical : <b>7 hrs. / week</b>		Internal Assessment (TA only): <b>Marks 250</b>		
Aim: <b>To carry out City Based Study focusing Planning and Design.</b>				
<b>Contents</b>				
				Hrs.
Unit - 1	<b>Geo-Informatics Laboratory Training</b> The laboratory training will be conducted in accordance with the studio exercise. 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 - 2	<b>Development Plan</b> The studio exercise focuses on the planning, development and design aspect (in line with the other core and elective courses offered in the semester). The exercise pertains to large cities and emerging metropolitan cities and ranges from preparation of sustainable development plans to sector specific themes pertaining to tourism, SEZs, etc. The studio exercise enables students to develop an approach/ framework for the task; it is field based as a database is generated that is analyzed and the plan and strategies are formulated. Initial study involves understanding of the exercise through theories, study of similar case studies, awareness of relevant norms and standards through extensive literature search. 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 analyze 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. The second exercise is a short and intensive exercise of one-month duration. It pertains to topical issues i.e. property tax reforms, informal sector, development of railway land, etc. The study is based on primary surveys and students are expected to analyze the information and arrive at recommendations.			
<b>Text / Reference Books:</b>				
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.



3.	Taylor, G.	A Student's Writing Guide: How to Plan and Write Successful Essays	2009	Cambridge University Press
4.	Colin Neville, 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
<b>List of Exercises / Practical:</b>				
1	Visit to the case study town and submit report.			