

**DR. A.P.J. ABDUL KALAM TECHNICAL UNIVERSITY
U.P., LUCKNOW**



SYLLABUS

For

**MASTER IN URBAN & REGIONAL
PLANNING (M.U.R.P.) PROGRAMMES**

**(Effective from the Session: 2019-20)
(Approved in the 59th Academic Council)**

Faculty of Architecture & Planning, Lucknow, Tagore Marg Campus-226007
Masters in Urban & Regional Planning (MURP), Proposed Syllabus 2019-20
SCHEME OF TEACHING AND EXAMINATION

1st SEMESTER

S. NO.	SUBJECT CODE	NAME OF THE SUBJECT	PERIODS			EVALUATION SCHEME						SUBJECT TOTAL	CREDITS	DURATION OF THEORY PAPER (hrs)
			LECTURE	TUTORIAL	PRACTICAL/ STUDIO	INTERNAL ASSESMENT			ESE					
						CT	TA	TOTAL	THEORY	VIVA	TOTAL			
1	MPL - 101	Planning Theory & Techniques	2	1	0	20	30	50	50	0	50	100	3	3
2	MPL - 102	Socio-economic Planning	2	1	0	20	30	50	50	0	50	100	3	3
5	MPL - 103	Traffic & Transport Planning	2	1	0	20	30	50	50	0	50	100	3	3
4	MPL - 104	Environmental Planning & Management	2	1	0	20	30	50	50	0	50	100	3	3
3	MPL - 105	Housing, Resettlement & Rehabilitation	2	1	0	20	30	50	50	0	50	100	3	3
6	MPL - 106	Planning Studio-I	0	3	7	0	250	250	0	250	250	500	10	-
TOTAL			10	8	7			500			500			
GRAND TOTAL						25						1000	25	

2nd SEMESTER

S. NO.	SUBJECT CODE	NAME OF THE SUBJECT	PERIODS			EVALUATION SCHEME						SUBJECT TOTAL	CREDITS	DURATION OF THEORY PAPER (hrs)
			LECTURE	TUTORIAL	PRACTICAL/ STUDIO	SESSIONAL ASSESMENT			ESE					
						CT	TA	TOTAL	THEORY	VIVA	TOTAL			
1	MPL - 201	Metropolitan & Regional Planning	2	1	0	20	30	50	50	0	50	100	3	3
2	MPL - 202	Infrastructure Planning and Management	2	1	0	20	30	50	50	0	50	100	3	3
3	MPL-203	Remote Sensing & GIS Applications	2	1	0	20	30	50	50	0	50	100	3	3
4	MPL - 204	Planning Legislation & Urban Governance	2	1	0	20	30	50	50	0	50	100	3	3
5	MPL-205	Elective-I	2	1	0	20	30	50	50	0	50	100	3	3
6	MPL - 206	Planning Studio-II	0	3	7	0	250	250	0	250	250	500	10	-
7	MPL - 207	Free Elective-I*	2	1	0	-	-	-	-	-	-	-	-	-
TOTAL			12	9	7			500			500			
GRAND TOTAL						28						1000	25	

Faculty of Architecture & Planning, Lucknow, Tagore Marg Campus-226007
Masters in Urban & Regional Planning (MURP), Proposed Syllabus 2020-21
SCHEME OF TEACHING AND EXAMINATION

3rd SEMESTER

S. NO.	SUBJECT CODE	NAME OF THE SUBJECT	PERIODS			EVALUATION SCHEME						SUBJECT TOTAL	CREDITS	DURATION OF THEORY PAPER (hrs)
			LECTURE	TUTORIAL	PRACTICAL/ STUDIO	SESSIONAL ASSESMENT			ESE					
						CT	TA	TOTAL	THEORY	VIVA	TOTAL			
1	MPL - 301	Urban Management, Finance & Project Appraisal	2	1	0	20	30	50	50	0	50	100	3	3
2	MPL - 302	Institutional Analysis and Urban Governance	2	1	0	20	30	50	50	0	50	100	3	3
3	MPL-303	Research Methodology, Seminar & Report Writing	2	1	0	20	30	50	50	0	50	100	3	3
4	MPL-304	Rural and Regional Planning	2	1	0	20	30	50	50	0	50	100	3	3
5	MPL-305	Urban Design & Conservation	2	1	0	20	30	50	50	0	50	100	2	3
	MPL-306	Elective-II	2	1	0	20	30	50	50	0	50	100	2	3
6	MPL-307	Planning Studio-III & Thesis-I	0	3	7	0	200	200	0	200	200	400	9	-
7	MPL-308	Professional Training	-	-	-	-	-	-	-	yes	-	-	-	-
		TOTAL	10	8	7			500			500			
		GRAND TOTAL			25							1000	25	

4th SEMESTER

S. NO.	SUBJECT CODE	NAME OF THE SUBJECT	PERIODS			EVALUATION SCHEME						SUBJECT TOTAL	CREDITS	DURATION OF THEORY PAPER (hrs)
			LECTURE	TUTORIAL	PRACTICAL/ STUDIO	SESSIONAL ASSESMENT			ESE					
						CT	TA	TOTAL	THEORY	VIVA	TOTAL			
1	MPL - 401	Elective-III	2	1	0	20	30	50	50	0	50	100	3	3
2	MPL - 402	Thesis-II	0	0	22	0	450	450	0	450	450	900	22	-
		TOTAL	2	1	22			500			500			
		GRAND TOTAL			25							1000	25	

***Free Elective-I** is a non-credit and optional course offered as per the availability of the experts.
MPL 308 is a compulsory zero credit training, Viva will be conducted to assess the performance.

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

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

Unit – 5	<p>Survey Techniques and Analytical Models</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>Demographic methods and Planning Standards</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.
List of Exercises / Practical:				
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: Masters in Urban & Regional Planning (MURP): First Semester				
Name of the Subject: SOCIO - ECONOMIC PLANNING				
Subject Code: MPL 102		Semester: First		
Duration: 16 weeks (48 Hours)		Maximum Marks: 100		Credits: 3
Teaching Scheme		Examination Scheme		
Lecture : 2 hrs. /week		External Assessment: Marks 50		
Tutorial : 1 hr. /week		Internal Assessment: Marks 50		
Aim: To develop understanding with relevance to Socio-economic Issues in Urban and Regional Planning.				
Contents				Hrs.
Unit - 1	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 - 2	Community and Settlements 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 neighbourhood 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	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 - 4	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.			
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 / 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: Masters in Urban & Regional Planning (MURP): First Semester		
Name of the Subject: TRAFFIC & TRANSPORT PLANNING		
Subject Code: MPL 103	Semester: First	
Duration: 16 weeks (48 Hours)	Maximum Marks: 100	Credits: 3
Teaching Scheme		Examination Scheme
Lecture : 2 hrs. /week	External Assessment: Marks 50	
Tutorial : 1 hr. /week	Internal Assessment: Marks 50	
Aim: To study the Elements of Infrastructure and Role of Transport in Urban and Regional Planning.		
Contents		
		Hrs.
Unit - 1	Introduction to Basic Concepts 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	Design of Urban Road Infrastructure 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	Design of Intersections 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	Traffic Management Systems and Safety 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	Transport Infrastructure Planning, Management and Design 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.	

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.

Name of the Course: Masters in Urban & Regional Planning (MURP): First Semester				
Name of the Subject: ENVIRONMENTAL PLANNING & MANAGEMENT				
Subject Code: MPL 104		Semester: First		
Duration: 16 weeks (48 Hours)		Maximum Marks: 100		Credits: 3
Teaching Scheme		Examination Scheme		
Lecture : 2 hrs. /week		External Assessment: Marks 50		
Tutorial : 1 hr. /week		Internal Assessment: Marks 50		
Aim: To study Theory of Environmental Planning and management.				
Contents				
				Hrs.
Unit – 1	Concepts of Ecology, Ecosystem and Environmental Planning 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	Resource Analysis and Conservation Resource analysis for various ecosystems and development imperatives (land, geology, soil, climate, water, vegetation) characteristics, exploitation, causative factors for degradation, analytical techniques.			
Unit – 3	Environmental Zones Environmental Zones (Hill, Coastal, Arid), characteristics, resources, settlements pattern, problems and potentials, regulating mechanisms for development.			
Unit – 4	Environmental Policies, Significant Conventions, Conferences Environmental Policies and initiatives including policies, strategies, protocols, treaties and agreements.			
Unit – 5	Environmental Management, Appropriate Technologies & Management 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	Alternate Energy Technologies Technologies related to alternate energy- Solar, Biomass, Biogas, Hydro, Wind, Nuclear and their usefulness for environment.			
Text / Reference Books:				
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 th Edition	Environmental Law Institute, Washington.
9.		Publications of Central Pollution Control Board on Air, Water and Noise Pollution, Waste Management		www.cpcb.nic.in
10.		New and Renewable Energy Sources		www.mnre.nic.in
11.	Eugene Odum, Murray Barrick, Gary W Barrett	Fundamentals of Ecology	2005	Cengage
List of Exercises / Practical:				
1	Visit to Public Health Engineering Department of Local Bodies / Development Authority / State Government and submit report.			

Name of the Course: Masters in Urban & Regional Planning (MURP): First Semester		
Name of the Subject: HOUSING, RESETTLEMENT & REHABILITATION		
Subject Code: MPL 105	Semester: First	
Duration: 16 weeks (48 Hours)	Maximum Marks: 100	Credits: 3
Teaching Scheme		Examination Scheme
Lecture : 2 hrs. /week	External Assessment: Marks 50	
Tutorial : 1 hr. /week	Internal Assessment: Marks 50	
Aim: To provide an Exposure to the Basic Housing and Planning Concepts and Issues.		
Contents		
		Hrs
Unit - 1	<p>Concepts and Definitions</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>Urban Housing</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>Housing policies and programs in India</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>Land Development and Resultant Resettlement</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>Impact of Resettlement and Rehabilitation (R and R) Plan</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 Affected People and Project Affected Assets, Impact on Women and Children, Gender Action Plans. Resettlement Plan: Context, content, structure, principles and practices:</p>	

	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	Participation as an Important Tool for Resettlement and Rehabilitation 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.			
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 / Practical:				
1	Visit to Regional Office of HUDCO or State Housing Board and submit report.			

Name of the Course: Masters in Urban & Regional Planning (MURP): First Semester		
Name of the Subject: PLANNING STUDIO-I		
Subject Code: MPL 106	Semester: First	
Duration: 16 weeks (160 Hours)	Maximum Marks: 500	Credits: 10
Teaching Scheme		Examination Scheme
Tutorial : 3 hrs. / week		External Assessment (Viva only): Marks 250
Practical : 7 hrs. / week		Internal Assessment (TA only): Marks 250
Aim: To provide Appreciation of Site Planning, Area Planning, and Local Area Development Plan.		
<p>First Assignment Film Appreciation (Individual Assignment) Firms 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>Second Assignment Literature Review (Individual Assignment) 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>Third Assignment Area Appreciation (Group Assignment) The aim of the area appreciation exercise is to enable the students to understand and contextualize the location of the area in relation to the city, zone and area in which the particular place is situated. This is done in relation to the socio-economic, spatial and cultural characteristics of that city, zone, location, etc. The main purpose is to make the students appreciate the locational attributes of land parcels for future development in a city. Due to the size of the area, this exercise is done in groups of students being assigned to a particular area. The following planning issues at area level should be identified:</p> <ul style="list-style-type: none"> • Review of the Master Plan / Zonal / Area plan in relation to the selected areas. • Appreciation / Analysis of ward level data. • Perception of areas in terms of legal / illegal / authorized / unauthorized, Slums, Urban Aesthetics. • Social Categorizations of people - Type of population living, people's perception about area and its planning problems. <p>Fourth Assignment Site Planning (Individual Assignment) Site planning is a process whereby the optimum utilization of potential of site is considered recognizing the constraints the site has. It uses 3 dimensional space of the site and the associated locational advantages, human activities and the regulations that are assigned to a particular site. The site is developed using a set of standards / norms in a given context which varies from location to location. A student is expected to understand the intricacies and interface between various variables such as soil conditions, topography, environmental dimensions, location, spatial standards applicable to the</p>		

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.

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 / Practical:

1	Visit to Local Planning Agency and Field Visit for Data Collection and submit Report.
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2nd SEMESTER		
Name of the Course: Masters in Urban & Regional Planning (MURP): Second Semester		
Name of the Subject: METROPOLITAN & REGIONAL PLANNING		
Subject Code: MPL 201	Semester: Second	
Duration: 16 weeks (48 Hours)	Maximum Marks: 100	Credits: 3
Teaching Scheme	Examination Scheme	
Lecture : 2 hrs. /week	External Assessment: Marks 50	
Tutorial : 1 hr. /week	Internal Assessment: Marks 50	
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.		
Contents		Hrs.
Unit – 1	Urban Growth and System of Cities 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.	
Unit – 2	City – Region Linkages City, fringe and the periphery - physical and functional linkages, peri-urban development.	
Unit – 3	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.	
Unit – 4	Concepts and Typology of Regions and Regional Dynamics 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 rd and 74 th Constitution Amendment Acts in regional plan preparation and implementation.	
Unit – 5	Regions, Resources in India and Its Planning 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.	

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	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.
List of Exercises / Practical:				
Visit to Regional Development Authority and submit report.				

Name of the Course: Masters in Urban & Regional Planning (MURP): Second Semester				
Name of the Subject: INFRASTRUCTURE PLANNING & MANAGEMENT				
Subject Code: MPL 202		Semester: Second		
Duration: 16 weeks (48 Hours)		Maximum Marks: 100		Credits: 3
Teaching Scheme		Examination Scheme		
Lecture : 2 hrs. /week		External Assessment: Marks 50		
Tutorial : 1 hr. /week		Internal Assessment: Marks 50		
Aim: To study the Significance of Infrastructure in Urban and Regional Planning and Development.				
Contents				
Unit – 1	Water Supply and Sanitation 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			Hrs.
Unit – 2	Solid Waste Disposal and Management Basic principles, generation, characteristics, collection, disposal, management.			
Unit – 3	Fire and Electrification Planning for fire protection, services and space standards, location criteria;			
Unit – 4	Traffic and Transportation Planning for infrastructure and facilities for transport			
Unit – 5	Social Infrastructure and Green Infrastructure Planning for Education, health, civic, cultural infrastructure, Planning for Green Infrastructure			
Text / Reference Books:				
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.
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List of Exercises / Practical:

1	Visit to a Infrastructure Development Agency and submit report.
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Name of the Course: Masters in Urban & Regional Planning (MURP): Second Semester				
Name of the Subject: REMOTE SENSING & GIS APPLICATION				
Subject Code: MPL 203		Semester: Second		
Duration: 16 weeks (48 Hours)		Maximum Marks: 100		Credits: 3
Teaching Scheme		Examination Scheme		
Lecture : 2 hrs. /week		External Assessment: Marks 50		
Tutorial : 1 hr. /week		Internal Assessment: Marks 50		
Aim: To study the significance of Remote Sensing & GIS application				
Contents				Hrs.
Unit – 1	Introduction to Remote Sensing Introduction to Remote Sensing – Aerial and Satellite, Spatial data and Attribute data; Remote Sensing, advantages and applications, remote sensing platforms and sensors,			
Unit – 2	Application of Remote Sensing remote sensing data products, digital data formats and characteristics, visual image interpretation methods, digital image classification methods, geometric and radiometric corrections			
Unit – 3	Introduction to GIS 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	Application of GIS 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			
Text / Reference Books:				
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 st 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
List of Exercises / Practical:				
1	Visit to a case study town and submit report on EIA.			

Name of the Course: Masters in Urban & Regional Planning (MURP): Second Semester		
Name of the Subject: PLANNING LEGISLATION & URBAN GOVERNANCE		
Subject Code: MPL 204	Semester: Second	
Duration: 16 weeks (48 Hours)	Maximum Marks: 100	Credits: 3
Teaching Scheme	Examination Scheme	
Lecture : 2 hrs. /week	External Assessment: Marks 50	
Tutorial : 1 hr. /week	Internal Assessment: Marks 50	
Aim: To study the Role of Government, Private Sector and the Third Sector for Governance of Cities and Regions.		
Contents		Hrs.
Unit - 1	Overview of Urban Governance Definition, concepts, components, government and governance, hierarchy and structure, forms of governance, process of inclusion and exclusion,	
Unit - 2	Legislations pertaining to Urban Governance Institutional frame and mechanism for urban governance as envisaged in the 73rd and 74th Constitution Amendment Acts.	
Unit - 3	Institutions and Organizations 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.	
Unit - 4	Urban Local Governance and Participatory Processes 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.	
Unit - 5	Law, Indian Constitution Evolution of Planning Legislation 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>Habitat Laws and Significance, Development Control & Professional Practice</p> <p>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.</p> <p>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>			
Text / Reference Books:				
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

List of Exercises / Practical:

1	Visit to Legal Section or Division of Local Body / Development Authority or Senior Legal Advisor dealing with Planning Legislation and submit report.
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Name of the Course: Masters in Urban & Regional Planning (MURP): Second Semester				
Name of the Subject: INCLUSIVE PLANNING (ELECTIVE-I)				
Subject Code: MPL 205-A		Semester: Second		
Duration: 16 weeks (48 Hours)		Maximum Marks: 100		Credits: 3
Teaching Scheme		Examination Scheme		
Lecture : 2 hrs. /week		External Assessment: Marks 50		
Tutorial : 1 hr. /week		Internal Assessment: Marks 50		
Aim: To study the various Forms, Arenas and Uses of Inclusion in the Processes of Urban and Regional Planning.				
Contents				Hrs
Unit - 1	Understanding Inclusive Planning Definitions and components			
Unit - 2	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			
Unit - 3	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.			
Unit - 4	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	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.		
List of Exercises / Practical:				
1	Visit to a Local Body / Authority and submit a Report with focus on Inclusive Planning being practiced by them.			

Name of the Course: Masters in Urban & Regional Planning (MURP): Second Semester				
Name of the Subject: ADVANCED TRANSPORT PLANNING (ELECTIVE-I)				
Subject Code: MPL 205-B		Semester: Second		
Duration: 16 weeks (48 Hours)		Maximum Marks: 100		Credits: 3
Teaching Scheme		Examination Scheme		
Lecture : 2 hrs. /week		External Assessment: Marks 50		
Tutorial : 1 hr. /week		Internal Assessment: Marks 50		
Aim: To study Planning of Advanced Urban Transport.				
Contents				
Unit - 1	Urban Transport Trends and Policies 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.			Hrs.
Unit - 2	Urban Transport and Land Use 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	Transport Planning Surveys and Studies Urban transport planning process; study area delineation, zoning; data needs; surveys and studies; analytical outputs and their use.			
Unit - 4	Transport Demand Modeling 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.			
Text / Reference Books:				
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
List of Exercises / Practical:				
1	Visit to a Transport Planning Cell / Section of Development Authority and submit report.			

Name of the Course: Masters in Urban & Regional Planning (MURP): Second Semester				
Name of the Subject: PLANNING STUDIO - II				
Subject Code: MPL 206		Semester: Second		
Duration: 16 weeks (160 Hours)		Maximum Marks: 500		Credits: 10
Teaching Scheme		Examination Scheme		
Tutorial : 3 hrs. / week		External Assessment (viva only): Marks 250		
Practical : 7 hrs. / week		Internal Assessment (TA only): Marks 250		
Aim: To carry out City Based Study focusing Planning and Design.				
Contents				
Unit - 1		Geo-Informatics Laboratory Training		Hrs.
		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		Development Plan		
		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.		
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.

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
List of Exercises / Practical:				
1	Visit to the case study town and submit report.			

Faculty of Architecture & Planning, Lucknow, Tagore Marg Campus-226007
Masters in Urban & Regional Planning (MURP)
Proposed Syllabus 2020-21
3rd SEMESTER

Name of the Course: Masters in Urban & Regional Planning (MURP): Third Semester				
Name of the Subject: URBAN MANAGEMENT, FINANCE AND PROJECT APPRAISAL				
Subject Code: MPL 301		Semester: Third		
Duration: 16 weeks (48 Hours)		Maximum Marks: 100	Credits: 3	
Teaching Scheme		Examination Scheme		
Lecture : 2 hrs. /week		External Assessment: Marks 50		
Tutorial : 1 hr. /week		Internal Assessment: Marks 50		
Aim: To study how urban management, finance and project appraisal works				
Contents				Hrs.
Unit - 1	Introduction to Development Management Concept, approaches, components, interface with national goals and political economic system			
Unit - 2	Urban Development Management Strategies, Tools and Techniques, organizations involved			
Unit - 3	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			
Unit – 4	Information System and Urban Reforms Spatial and non-spatial information systems, urban reforms and acts and policies			
Unit – 5	Project Appraisal			
Text / Reference Books:				
S. No.	Name of Authors	Titles of the Book	Edition	Name of the Publisher
1				
2				
3				
4				
List of Exercises / Practical:				
1	Visit to			
2	Visit to a			

Name of the Course: Masters in Urban & Regional Planning (MURP): Third Semester		
Name of the Subject: INSTITUTIONAL ANALYSIS AND URBAN GOVERNANCE		
Subject Code: MPL 302	Semester: Third	
Duration: 16 weeks (48 Hours)	Maximum Marks: 100	Credits: 3
Teaching Scheme		Examination Scheme
Lecture : 2 hrs. /week	External Assessment: Marks 50	
Tutorial : 1 hr. /week	Internal Assessment: Marks 50	
Aim: To apprise the students of the local governance at sub provincial level and resource mapping of local governments with special emphasis on municipal governments in out country		
Contents		
		Hrs.
Unit - 1	Institutions in Planning Type of institutions, their role and relevance (legal, political, social, cultural and economic institutions), formal and informal institutions and spaces- their interface, conflicts, reach and their effectiveness in planning; analyzing the institution; methods, process and evaluation; role of the state in planning; market facilitative, regulatory and monopoly power	
Unit - 2	Institutions and Organizations Formal and informal institutions such as constitutions, electoral rules, property rights and civil rights. How and why people in different groups, countries and cultural context of institutions to facilitate collective action. Whether different groups construct distinctly different institutions to deal with similar problems and why similar institutions seem to work differently in different distinct societies; different between organizations and institutions, government and governance; organizations: types, concepts, theories, structure and functions: approaches to understanding organizations. Institutional building: factors and processes, institution process and networks- how the network operates; present organizations dealing with urban and regional planning. Post 73 rd and 74 th constitution amendment act, environment and the modified role and functions of local bodies, local authorities, district authorities and state level agencies; case studies	
Unit - 3	Decentralization of Powers Development planning and Indian state- centralization, powerlessness, decentralization; the institutional frame and mechanism for urban governance as envisage in 73 rd and 74 th constitution amendment act, transfer of power from centre to state and state to local government, role of the existing planning and development agencies in various states in the light of constitution amendment act; role of various institutions in the governance process and access to government by various stakeholders	
Unit - 4	Network Governance Role of the state in relation to other stakeholders (NGOs, private sector. Scientific network and international institutions), new state spaces; invited and contested spaces; changing role of the state- emergence of middle class and its socio-political space, collective bargaining and collective action; role of donor agencies; advanced locality management, resident welfare associations and other agencies in the	

	governance system. Role of people's participation in planning process: process of inclusion and exclusion in governance. E-governance and grievances, redresses system			
Text / Reference Books:				
S. No.	Name of Authors	Titles of the Book	Edition	Name of the Publisher
1.	D.D. Basu	Constitution of India		S. Chand and Sons, New Delhi
2.		Democracy, development and decentralization		Taylor and Francis, India
3.	O.P. Mathur	India: the Challenges of urban governance		National Institute of Public Finance and Policy, New Delhi
4.	Niraja Gopal	Local governance in India		Oxford University Press
5.	Baud I.S.A. et all	New Forms of Urban Governance in India		Sage Publications
6.	K.C. Sivaramkrishnan	People's Participation in Urban Governance		CSS, New Delhi
7.	P.S.N. Rao	Urban Governance and Management: Indian Initiative		Kanishka Publishers
8.	Uday Kumar Halder	Leadership and Teambuilding		Oxford University Press
9.	Bahl Roy W. et all	Developing Countries		Oxford University Press
10.	Sudipto Mundle	Public Finance, Policy Issues for India		Oxford University Press
11.	D. Bandopadhyay et all	New Issues in Panchayati raj		Concept Publishing
List of Exercises / Practical:				
1.	Visits to			

Name of the Course: Masters in Urban & Regional Planning (MURP): Third Semester		
Name of the Subject: RESEARCH METHODOLOGY, SEMINAR AND REPORT WRITING		
Subject Code: MPL 303	Semester: Third	
Duration: 16 weeks (48 Hours)	Maximum Marks: 100	Credits: 3
Teaching Scheme		Examination Scheme
Lecture : 2 hrs. /week	External Assessment: Marks 50	
Tutorial : 1 hr. /week	Internal Assessment: Marks 50	
Aim: To understand the research techniques, collection, analysis and interpretation of data and representation of data, research design with relevance to Urban and Regional Planning.		
Contents		
		Hrs.
Unit - 1	Introduction to Research Methodology Objective of Research, Types of Research, Research Methods and Methodology, Scientific method of Research, Research Process. Types of research in architecture, areas of research in architecture, qualitative and quantitative paradigms	
Unit - 2	Research Problem Definition of Research Problem, Selection of Research Problem, Need for defining the Problem, Techniques for defining a Problem, Development of hypothesis	
Unit - 3	Research Design Components of research design – formulating the research questions, hypothesis, choosing the sample, methods of data collection, analyzing the data and inferring from the data. Concepts of dependent and independent variables, unit of analysis. Defining the scope and limitations of a research plan, significance of the research outcome. Preparing time schedule & budget for a research plan.	
Unit - 4	Referencing Information Sources Using secondary sources of information: using an Encyclopaedia, bibliography card, translation card catalogue information, periodic indexes and usage, compiling preliminary bibliography; Referencing documentation sources: styles of footnotes, endnotes etc., model bibliography entries.	
Unit - 5	Sampling Design: Quantitative and Qualitative Quantitative data collection: Census and Sample survey, Implication of Sample design, Steps in Sampling, Characteristics of a good Sample design, Types of Sample design. Methods of qualitative data collection in Architecture: Interview Techniques: Questionnaires /Face to face Interviews / Internet survey. Designing a Questionnaire / Interview schedule. Visual Techniques: Observations (participant / non-participant / direct), activity mapping, accession/erosion trace observations, cognitive maps, etc.	

Unit - 6	<p>Analysis Quantitative Content Analysis: Secondary data analysis: Understanding the relative advantages, disadvantages and application of various methods mentioned above and choosing a method appropriate for a research to achieve its objectives. Data Documentation and Analysis: Understanding the nature of data collected and methods of analysis suitable for that data (graphical / numerical / descriptive). Converting data into numerical form for data analysis.</p>	
Unit - 7	<p>Introduction of Statistics Introduction to the simple statistical methods of analyzing numerical data – frequencies / percentages, mean / median / mode, correlation, chi square test – inferring from the data and interpreting the meaning of those inferences. Use of MS Excel for statistical data analysis. Presentation & Reporting: Presentation of the Data: Techniques of presenting the numerical data – graphical (pie charts, bar charts, line graphs etc.), tabulations, verbal qualitative data, architectural drawings / maps.</p>	
Unit - 8	<p>Reporting the research Different sections of a research report, technical writing and language (tense, voice, etc.), formatting of a report.</p>	

Text / Reference Books:

S. No.	Name of Authors	Titles of the Book	Edition	Name of the Publisher
1	C.R.Kothari	Research Methodology		New Age International (P) Ltd.
2.	D.K. Bhattacharya	Research Methodology		Excel Books
3.	Goodday & Hack	Research Methodology		
4.	E. Babbie	The Practice of Social Research	1983	Wadsworth Publishing Co.
5.	J.W. Creswell	Research Design: Qualitative, quantitative and mixed method approaches	2003	Sage Publications
6.	I. Dey	Qualitative data analysis: A user friendly guide for social scientists	1993	Routledge
7.	L Groat, D Wang	Architectural Research methods	2002	John Wiley & Sons Inc.
8.	H. Sanoff	Visual Research Methods in Design	1991	Van Nostrand Reinhold
9.	D. Silverman	Interpreting Qualitative Data: Methods for Analyzing Talk, Text and Interaction	1993	Sage Publications
10.	Norman K Denzin, Yvonna S Lincoln	Handbook of Qualitative Research	1994	Sage Publications

List of Exercises / Practical:

1	Visit to
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Name of the Course: Masters in Urban & Regional Planning (MURP): Third Semester		
Name of the Subject: RURAL AND REGIONAL PLANNING		
Subject Code: MPL 304	Semester: Third	
Duration: 16 weeks (48 Hours)	Maximum Marks: 100	Credits: 3
Teaching Scheme		Examination Scheme
Lecture : 2 hrs. /week	External Assessment: Marks 50	
Tutorial : 1 hr. /week	Internal Assessment: Marks 50	
Aim: To study		
Contents		
		Hrs.
Unit – 1	Introduction Decentralized Planning in India- Historical perspective, Current scenario- recent development in decentralized district level planning, 73 rd and 74 th Constitution Amendment Act, participative District Planning; Role of Planning Commission and Finance Commissions, ICT in District Planning	
Unit – 2	District Planning Data management and district level visioning, Institutional and other support for District Planning Committee, bridging gap through district planning, resource mapping and determination of funding sources, consolidation of urban and rural plans; multi-sector and multi-level integrated approach to planning (vertical and horizontal spatial integration); rural-urban spatial relationship; District development plans- guidelines for district planning; content and context and methodologies; Village development plans- an integrated approach, rural norms and standards (spatial); capacity building for decentralized planning; democratizing information; using media for district development.	
Unit – 3	Rural Development-I Introduction; meaning and scope and overview of rural development; historical perspective- rural development in India; problem/perception and identification; rural area planning- programs, policies, schemes for rural development, their coverage and outcomes; rural infrastructure development, Bharat Nirman- a business plan for rural infrastructure; Rural Building Centers, PMGSY, IAY, Rajiv Gandhi Technology Mission, Central Rural Sanitation Programme, PURA, Rural Employment Schemes; Mahatma Gandhi national Rural Employment Guarantee Act, 2005; Sampoorna Grameen Yoyana, National Social Assistance Programme, Command Area Program, Drought Prone Area Program, Backward Area Development Program, North Eastern Development Program, Technology Missions: Water, Sanitation, Electrification etc.	
Unit – 4	Rural Development-II Changing profile of rural areas of India; Consumption pattern changes, land utilization changes, cropping pattern changes, holding size changes, changes in asset ownership, its implication in the planning process; rural settlement analysis; Types, activity, environment and economic interface in rural habitat, technology in rural settlement; land utilization, types of land utilization and its relevance to planning; land conversions and its regulation/ facilitation in peri-urban areas; land	

	utilization analysis; common property and its use, tenancy and ownership, holding size and its relevance, irrigated and non-irrigated land values; sources of information for land, Information Technology in rural development, ICT in rural development, rural information system, weather forecasting, disaster minimization, market information etc. E-panchayats, energy efficient technologies and alternative technologies; inclusive development; special component plan- tribal sub plan and weaker sector plan allocation, implementation, monitoring and evaluation; North Eastern Plan	
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Text / Reference Books:

S. No.	Name of Authors	Titles of the Book	Edition	Name of the Publisher
1.				
2.				

List of Exercises / Practical:

1	Visit to
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Name of the Course: Masters in Urban & Regional Planning (MURP): Third Semester				
Name of the Subject: URBAN DESIGN AND CONSERVATION				
Subject Code: MPL 305		Semester: Third		
Duration: 16 weeks (48 Hours)		Maximum Marks: 100		Credits: 2
Teaching Scheme		Examination Scheme		
Lecture : 2 hrs. /week		External Assessment: Marks 50		
Tutorial : 1 hr. /week		Internal Assessment: Marks 50		
Aim: To provide an Exposure to the Basic Housing and Planning Concepts and Issues.				
Contents				
				Hrs
Unit - 1	Introduction to urban design Early examples of Urban Design in classical and pre-industrial cities – Heritage and the roots of our modern concepts in urban design, Objectives and scope of urban design, Basic functions, principles and techniques. Value enhancement, aesthetics and conservation aspects.			
Unit - 2	Parts of urban design Surveys in Urban Areas, Scale in Urban design, urban mass, perceiving & mapping a city, Urban Space. Urban activity & circulation. Examples at regional, metropolitan, Urban and project level, Designing the parts of city - central areas, the town center, civic spaces, shopping centers, Industrial Areas and estates. Residential areas & Housing.			
Unit - 3	Techniques of urban design Techniques of Urban Design with emphasis on public policies, conservation and economic considerations, Road forms, serial, grid-iron, Hierarchy of access routes - Pedestrian areas and malls & Urban elements, Legal aspects, Planning and Design parameters for New towns; studying of emergent techniques of urban design such as tactile city, ephemeral city, guerrilla intervention, soft intervention, compact city, walkable city, slow city, instant city, zero carbon city, smart city etc.			
Unit - 4	Introduction to Vernacular architecture Introduction to Vernacular architecture - nature, purpose and scope. Importance of sustainable material, resources, climate-sensitivity, Creativity and design in limited means.			
Unit - 5	Vernacular as a shelter Study of examples of Vernacular architecture in history of the world architecture, with a special emphasis on Indian architecture to understand shelter based on functions, building materials and construction techniques, art and craft, local conditions, traditions, climate and geography, religion & culture.			
Unit - 6	Learning from Vernacular Works of architects in contemporary architecture whose works are influenced by the Vernacular Architecture of the region. Details adapted in modern context by using old/new materials , systems and contexts; studying examples in Indian context, studying of works of various Indian architects with respect to interpretation of vernacular architecture in modern context			
Text / Reference Books:				
S. No.	Name of Authors	Titles of the Book	Edition	Name of the Publisher
1.				
2.				
List of Exercises / Practical:				
1	Visit to			

Name of the Course: Masters in Urban & Regional Planning (MURP): Third Semester				
Name of the Subject: DISASTER MANAGEMENT AND MITIGATION (ELECTIVE-II)				
Subject Code: MPL 306-A		Semester: Third		
Duration: 16 weeks (48 Hours)		Maximum Marks: 100	Credits: 2	
Teaching Scheme		Examination Scheme		
Lecture : 2 hrs. /week		External Assessment: Marks 50		
Tutorial : 1 hr. /week		Internal Assessment: Marks 50		
Aim: To provide an Exposure to the Basic Housing and Planning Concepts and Issues.				
Contents				Hrs
Unit - 1	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.			
Unit - 2	Environmental Management Environment impact assessment, thresholds, indicators, audits, environmental certification, lifecycle analysis, environment and property links, environmental policy, acts and regulations; environmental education, participatory approaches, emerging concepts, disaster classification, concepts, hazards, vulnerability, risks, human resources to disaster, impacts			
Unit - 3	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 - 4	Policies and Legislation pertaining to environment and disaster management Policies and legislation at various levels			
Text / Reference Books:				
S. No.	Name of Authors	Titles of the Book	Edition	Name of the Publisher
1.				
2.				
List of Exercises / Practical:				
1	Visit to			

Name of the Course: Masters in Urban & Regional Planning (MURP): Third Semester				
Name of the Subject: ENERGY AND CLIMATE CHANGE (ELECTIVE-II)				
Subject Code: MPL 306-B		Semester: Third		
Duration: 16 weeks (48 Hours)		Maximum Marks: 100		Credits: 2
Teaching Scheme		Examination Scheme		
Lecture : 2 hrs. /week		External Assessment: Marks 50		
Tutorial : 1 hr. /week		Internal Assessment: Marks 50		
Aim: To understand the causes of climate change, factors of energy consumption and their mitigation.				
Contents				Hrs
Unit - 1	Introduction Energy, climate change and urban development interface; early history of research in global warming, Rachel Carson, PAT theory, measuring global warming, global warming and climate change, various conventions on climate change, Kyoto protocol, Vienna Convention, Paris Convention, United Nation Framework for Climate Change, 2 degree reduction, 1.5 degree reduction, various countries on climate change, India's response towards climate change, IPCC, Habitat III etc.			
Unit - 2	Energy generation and consumption Energy supply and demand; energy consumption in cities; determinants of energy demand, phenomenon of climate change, factors influencing climate change, climate change and urbanization, climate change and peri-urban and rural areas, impacts of climate change, impact of climate change on Indian cities, impact of climate change on peri-urban and rural areas of India, measuring the impact using various techniques, use of GIS to measure the impact of climate change, study of Urbanization Index, UII, NVDI, NWDI, Shannon's entropy, centrality etc.			
Unit - 3	Energy planning and management, 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 - 4	Plans, Policies and Strategies Various policies and strategies taken for climate change mitigation and adaptation, Sustainability Development Goals, implementation of such goals in various countries and India, National Action Plan on Climate Change, State Action Plan on Climate Change, performance of various states, National Adaptation Fund, National Mission on sustainable Habitat, Smart city concept, Smart City Mission in India, performances of various states under Smart City Mission			
Text / Reference Books:				
S. No.	Name of Authors	Titles of the Book	Edition	Name of the Publisher
1.				
2.				
List of Exercises / Practical:				
1	Visit to			

Name of the Course: Masters in Urban & Regional Planning (MURP): Third Semester		
Name of the Subject: LAND MARKET AND MANAGEMENT (ELECTIVE-II)		
Subject Code: MPL 306-C	Semester: Third	
Duration: 16 weeks (48 Hours)	Maximum Marks: 100	Credits: 2
Teaching Scheme		Examination Scheme
Lecture : 2 hrs. /week	External Assessment: Marks 50	
Tutorial : 1 hr. /week	Internal Assessment: Marks 50	
Aim: To develop understanding of market forces, demand-supply, pricing and development of land.		
Contents		
		Hrs
Unit - 1	<p>Land Economics, Land Policy and Land Markets</p> <p>Economic principles of land use, concept of rent and its application, demand forecasting for land, factors affecting land supply and demand; market conditions-formal and informal, legal and illegal;; instruments of land policy and impact on markets; planning instruments, market development instruments, financial development instruments, fiscal instruments, other supportive instruments; market by government and government by markets; regulation, monopoly power and its use, private development, rent-seeking and its impact on land supply, access to land by various segments of population, PPP in land</p>	
Unit - 2	<p>Supply Side Management</p> <p>Property rights; ownership, user and exchange rights; its implication on land supply, land development; type, cost, methods of disposal, corruption and land markets; corruption, black money and land markets; relation between land, share and gold markets, regulation in land markets, social justice and land distribution, collective action of the state and regulation of its supply of land- overall impact of regulation on land prices; master plan, zoning and other planning regulations and their impact on supply. Land Management Techniques: private land assembly, co-operatives in land development, FDI in land development, land pooling and plot reconstitution, transfer of development rights, land sharing and land lease</p>	
Unit - 3	<p>Demand Side Management</p> <p>Income elasticity of land, business cycles and its impact on demand for land, externalities and internalities in land development and induced demand, economic growth and demand for land; changes in tastes and preferences and its effect on type of land; poor and their demand; physical, fiscal, financial and legal incentives for inducing or restricting the demand for land; mega investments and its effects on land</p>	
Unit - 4	<p>Land pricing and Real Estate Markets</p> <p>Land valuation techniques, land pricing, subsidies, auctions; type of developments; plotted, flatted system, and their effect on land pricing, hedonistic pricing, land price behavior in urban centers, constructing the land price index; market conditions-real estate cycles, market efficiency, market forecasting, cartels, collusion, rent seekers and real estate market, agents in real estate markets, risks, real estate regulatory bill and its likely impact; land information system, land record in rural areas (examples from Karnataka, Andhra Pradesh etc.), transparency in land transaction, methods of publicizing land prices and land price monitoring</p>	

Text / Reference Books:				
S. No.	Name of Authors	Titles of the Book	Edition	Name of the Publisher
1.	Arthur O'Sullivan	Urban Economics		Mcgraw-Hill
2.	Denise DiPasquale, William C. Wheaton	Urban Economics and Real Estate Markets		Prentice Hall
3.	Amitabh Kundu	Urban Land Market and Land Price Change: A study in the Third World Context		Ashgate Publishing Company
4.	Jack harvey	Urban Land Economics		Palgrave MacMillan
5.	Terrence M. Claurette, G. Stacy Sirmans	Real Estate Finance: Theory and Practice		Cangage Learning
6.	A.K. Jain	Urban Land Policy and Public- Private Partnership for Real Estate and Infrastructure Projects		Readworthy
List of Exercises / Practical:				
1	Visit to			

Name of the Course: Masters in Urban & Regional Planning (MURP): Third Semester		
Name of the Subject: PLANNING STUDIO III & THESIS –I		
Subject Code: MPL 307	Semester: Third	
Duration: 16 weeks (160 Hours)	Maximum Marks: 400	Credits: 9
Teaching Scheme		Examination Scheme
Tutorial : 3 hrs. / week	External Assessment (viva only): Marks 100+100=200	
Practical : 7 hrs. / week	Internal Assessment (TA only): Marks 100+100=200	
Aim: To understand the practical planning aspects of a region (district/ mega/ metro region)		
Contents		Hrs.
Module1 A:	Concepts and Hierarchy Spatial data infrastructure: Concepts, Contents, Nature and SDI hierarchy; global, national, regional and local SDI initiatives, building a SDI and using it in planning and decision making process; open geospatial consortium- ISO standards (TC2_1), data streaming and mining in spatial data infrastructure	
Unit - 1		
Unit - 2	From Global to Local SDI applications National SDI initiative; NRDMS; multi-level spatial data infrastructure, NSDI, assimilation and dissemination and data warehouse, state SDI, NCT Delhi SDI, Karnataka and Kerala Portals, case studies from various levels, Karnataka's land management program, Bhoomi, geo portal assisting local to state level planning process, Gujarat's tax program etc., application to coastal area planning	
Unit - 3	SDI applications in planning and decision support SDI- location based technology development, interoperability arrangement for geospatial data and ontology mapping, application in population datasets, natural resource repository, integrated water resource management, mKrishi- application in agriculture and rural development, geospatial application in transport, disaster management and conservation, spatio-temporal data modeling and analysis, 3D mapping of land and its use in city and regional planning, geo visualization of landscapes, rural and urban	
Unit - 4	Technology in SDI and decision support system Real time technologies and their application; landslide monitoring in Himalayan region, web based spatio-temporal prediction of landslides, decentralization planning in Uttarakhand-web based model, satellite based and other real time technologies and their use in identifying physical transformation, its application in urban and rural areas, slum formation, illegal colonies, flash flood warning system in river and coastal belt etc.	
Unit - 5	District Planning/ Regional Planning The students will be given a live case study to understand the complexity of planning of a region, inter-sector, scalar interface, integration etc. The focus will be to understand the scale of the problem and how to tackle them. It is expected that the approach will be mostly in terms of governance, which the students have acquired through theory subjects in the previous semesters. It is also expected that the students will present the final output to stakeholders to get their viewpoint.	
Module1 B:	In this stage the student shall complete all relevant literature reading to select a topic for thesis in consultation with the supervisor. The student shall complete	

	<p>works related to the selection, justification of topic and area of research and societal and professional relevance. The student requires giving interim juries and also supporting the supervisor in research works. All relevant study and work relating to literature study, site justification, case studies and site visits should be complete. It is also mandatory for each student to publish a research paper in an approved ISSN numbered journal and or International Conference in India or abroad which should have published the entire paper in proceedings.</p> <p>Note: Module 1A and 1B shall be held parallel and the marking weightage shall be 50%. Separate Viva Voice shall be taken for each student.</p> <p>Composition Of Jury Panel For Final (External) Evaluation / Examination Of Thesis.</p> <p>INTERNAL EXAMINERS-</p> <ul style="list-style-type: none"> • An Architect/Planner Director / Principal / Head of the Department / Professor of the parent institution / university. • Faculty/Planner as member. <p>EXTERNAL EXAMINERS-</p> <ul style="list-style-type: none"> • An Architect/Planner Director / Principal / Head of the Department / Professor of other than the parent institution / university. • An eminent architect/planner from the profession with at least 15 years of field experience. <p>Thesis Guide(s) as member, but not part of evaluation. Further the Thesis Coordinator will act as facilitator.</p>	
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Text / Reference Books:

S. No.	Name of Authors	Titles of the Book	Edition	Name of the Publisher
1.				
2.				

List of Exercises / Practical:

1	Visit to
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Name of the Course: Masters in Urban & Regional Planning (MURP): Third Semester		
Name of the Subject: PROFESSIONAL TRAINING		
Subject Code: MPL 308	Semester: Third	
Duration: 4 weeks	Maximum Marks: 0	Credits: 0
Teaching Scheme	Examination Scheme	
Tutorial : N.A.	External Assessment (viva only): Satisfactory/ Unsatisfactory	
Practical : N.A.	Internal Assessment (TA only): Not Applicable (certification from concerned organization)	
Aim: To expose the students to the profession of planning and foster links with industry		
Contents		
		Hrs
Unit – 1	<p>Concepts and Hierarchy</p> <p>The student is expected to work in any project related to urban planning or any specialization such as infrastructure planning, environmental planning, transportation planning, housing etc.</p> <p>Individual contribution of the student in the project handled, in any of the stages of work undertaken (data analyses, project formulation, policy framing etc.) is expected</p> <p>Each student shall undergo professional training for a minimum 4 weeks in an establishment approved by the coordinator.</p> <p>Each student is required to submit a performance report from the place of training and a detailed report of the works undertaken by him/her.</p> <p>The content of the report should contain a brief introduction of the organization, list of work undertaken, description of individual projects worked upon, role of the student supported by verification by the organization.</p> <p>Note-</p> <p>The student is required to undertake summer training after 2 semesters of course study, in any government, private or research organization undertaking regional and urban planning works. The practical training shall be for a minimum period of 4 weeks. The practical training will commence during the summer break between second and third semester. However, if due to certain unavoidable issues, any student is unable to take the training after the 2nd semester, he/she shall take the training after the completion of the 4th Semester.</p> <p>If the student as per the clause mentioned above is unable to take the training after the completion of the 2nd Semester, his/her 3rd semester results shall reflect carryover. Once the student has completed the training after the 4th Semester all his/her results shall be declared. The results shall reflect if the student has completed training successfully and satisfactorily or not after assessing the performance through Viva. In the Marksheet it will be mentioned: “Training Completed, Satisfactory Performance”.</p>	

4th SEMESTER				
Name of the Course: Masters in Urban & Regional Planning (MURP): Fourth Semester				
Name of the Subject: PLANNING TECHNIQUES- QUANTITATIVE ANALYSIS (ELECTIVE-III)				
Subject Code: MPL 401-A		Semester: Fourth		
Duration: 16 weeks (48 Hours)		Maximum Marks: 100	Credits: 3	
Teaching Scheme		Examination Scheme		
Lecture : 2 hrs. /week		External Assessment: Marks 50		
Tutorial : 1 hr. /week		Internal Assessment: Marks 50		
Aim: To introduce techniques used for planning at various stages from preliminary to advanced				
Contents				Hrs.
Unit – 1	Survey techniques and Mapping Data base for physical surveys including land use, building use, etc. and socio-economic surveys; survey techniques, land use classification or coding and expected outputs; techniques of preparing base maps including understanding the concept of scales, components and detailing for various levels of plans like regional plan, city plan, zoning plan and local area plan			
Unit – 2	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			
Unit – 3	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- inner connected decision area analysis			
Unit – 4	Planning Standards Spatial standards, performance standards and benchmarks and variable standards; UDPFI guidelines, zoning regulations and development control rules and regulations			
Text / Reference Books:				
S. No.	Name of Authors	Titles of the Book	Edition	Name of the Publisher
1.	R. Ramchandran	Urbanization and urban systems in India		Oxford University Press
2.	K. Siddhartha, S. Mukherjee	Cities urbanization and Urban systems		Kisalaya Publications
3.	j. Glasson	Regional Planning		Open University Press
4	R. Knowles, J. Wareing	Economic and Social Geography made simple		Rupa and Company
5	C.P. Lo, A.K.W. Yeang	Concepts and technique of Geographic Information Systems		PHI Learning Pvt. Ltd.
6		Planning techniques for AITP		Reader on Institute of town Planners India
7	Ministry of Urban Affairs and Employment	UDPFI Guidelies Volume I		Govt. of India, New Delhi
8	Thomas M. Lillesand et all.	Remote Sensing and Image Interpretation		John Wiley and Sons Ltd
9	Basudeb Bhatta	Remote sensing and GIS		Oxford University Press
List of Exercises / Practical:				
Visit to				

Name of the Course: Masters in Urban & Regional Planning (MURP): Fourth Semester		
Name of the Subject: POLITICS AND PUBLIC POLICY (ELECTIVE-III)		
Subject Code: MPL 401-B	Semester: Fourth	
Duration: 16 weeks (48 Hours)	Maximum Marks: 100	Credits: 3
Teaching Scheme	Examination Scheme	
Lecture : 2 hrs. /week	External Assessment: Marks 50	
Tutorial : 1 hr. /week	Internal Assessment: Marks 50	
Aim: To provide an in-depth study of the various approaches for policy formulation, implementation and evaluation		
Contents		Hrs.
Unit - 1	State as a manager of resources and politics of provision Political culture of Indian State, State and local political economy, emergence of state in the federal set up; politics of the state and bureaucracy, politics and emergence of civil society; regeneration and redevelopment politics; property rights, norms and standards, government market and market by government; regulatory state, reforming state, rent seeking state and their special implications; land use politics, politics of provision of housing in urban and rural areas, infrastructure; decision making, decision-taking process; financing and pricing, case studies from India and abroad on planning and political decisions in their impact on rural and urban development; examples from South Korea; conversion of rural land to urban land, FSI changes and resultant changes in land use and form: China, USA and other countries	
Unit - 2	Nature and making of public policy Nature of public problems, planning as a public issue- policy analysis and process; six steps in policy analysis: how are policies made, who influences the policy agenda and what issues affect policy's 'success' and 'failure'? What can we learn from how different countries approach similar policy problems? Theoretical frameworks, the role of institutions in the policy process and the motivation of policy actors; classical rational problem solving model; limitations in public sector and the private sector; establishing analysis	
Unit - 3	Public Policy Analysis and strategic policy planning Overview of policy process models; policy initiations; multi-stream approaches, policy implementation analysis, life-course approach to policy analysis, case studies in policy planning analysis, policy integration, possible areas of integration in planning; differences between strategic planning management in public and private sectors, mission statements and goal setting techniques, strategic decisions and evaluation, strategic leadership, coordination and networks, crisis management, transformational strategic management	
Unit - 4	Public Policy Management and delivery How are new information and communication technologies shaping public service delivery? E-governance, e-panchayats, e-markets etc.; transparency, accountability, accessibility, participatory mechanisms; trends and pressures that effect public service organizations, market based arrangements, multi-service provider arrangements in public sector setting, benchmarks in policy management, land, environment, health, water and other policies- integration and disintegration of policies- frequency and commitments to change; global commitments; MDG, environment etc. and its commitments at the national, state and local level, land policy; interest groups, acts/ agents and policy making process	
Text / Reference Books:		

S. No.	Name of Authors	Titles of the Book	Edition	Name of the Publisher
1.	Tim Blackman	Urban Policy in Practice		Routledge
2.	R.K. Sapro	Public Policy: Art and craft of policy analysis		PHI Learning Pvt. Ltd, New Delhi
3.	William N. Dunn	Public Policy Analysis		Pearson Edition
4.	VK Agnihotri	Public Policy, Analysis and Design		Concept Publishing
List of Exercises / Practical:				
1	Visit to			

Name of the Course: Masters in Urban & Regional Planning (MURP): Fourth Semester		
Name of the Subject: FINANCING DEVELOPMENT (ELECTIVE-III)		
Subject Code: MPL 401-C	Semester: Fourth	
Duration: 16 weeks (48 Hours)	Maximum Marks: 100	Credits: 3
Teaching Scheme		Examination Scheme
Lecture : 2 hrs. /week	External Assessment: Marks 50	
Tutorial : 1 hr. /week	Internal Assessment: Marks 50	
Aim: To provide an acquittance with governance structure and fiscal and financial background of the local governments and tools and techniques to strengthen them		
Contents		
		Hrs.
Unit - 1	Financing: Introduction Methods of financing; fiscal transfers constitution, 73 rd and 74 th amendment of constitution and funding; central and state finance commissions, own source funding, equities, debt financing, sell out, refinancing, co-financing, venture capital issues in project financing	
Unit - 2	Role of finance commissions Distribution of revenues between union and state; finance commission- historical perspective, role of CFCs (First to 13 th CFC), deviations in sharing formula by 13 th CFC and its impact o urban and rural infrastructure provision, service level bench marks in infrastructure and related funds transfer, state finance commissions and fund transfers to local bodies, issues and recommendations	
Unit - 3	Reforms at local level Property tax reforms, accounting reforms and accounting standards, own source financing, credit rating of bonds, pooled financing of projects, standards and regulations	
Unit - 4	PPP as a funding option and PPP management Hierarchy of roads; national, state, district, other district roads, village roads; standards, provision and institutions involved; investment, pricing and maintenance; access, coverage and conditions; national, state and district policies towards roads; National Highway Project; golden quadrilateral, north-south and east-west corridors and its impact on regional space, PMGSY and its impact on village connectivity, BRDO; border roads and backward regions, forward and backward regions in terms of road provision, conventional and alternative energy sources and policies and programs towards energy at various levels; demand and supply projections, investment and pricing,; trans-boundary issues in production, sharing; privatization issues; nuclear energy; issues involved and probable spatial impact	
Unit - 5	Behavioral Orientation for Governance Team building and Leadership; conflict management, change management, stress management Constitutional Provision for Local Finance Principle of Fiscal Federalism- Inter Governmental Fiscal Transfer, constitution, powers and functions of Central Finance Commission (CFC) and State Finance Commission (CFC), analysis of current CFC and SFC report; consolidated fund; centrally sponsored schemes related to urban/rural physical planning and related sectors Municipal Finance Plan and non-plan financing (planning commission and finance commission); categorization of municipal resources of revenue; internal vs external revenue; capital vs revenue receipt, municipal finance assessment framework; municipal finance; paradigm shift, reforms in	

<p>municipal finance; unit area method in property tax calculation, rationalization of user charges; ringfencing; streamlining municipal tax administration</p> <p>Innovations in local resource mobilization</p> <p>Monetary exaction (betterment levy, impact fee, external development charges, vacant land development tax), land exaction (TDP, town planning scheme, accommodation reservation, monetization of underutilized public assets, special assessment districts, valorization charges, external finance; debt financing, role of financial intermediaries, municipal bond, pooled finance</p> <p>Local government fiscal regime</p> <p>Local government budget, normal budget, performance budget, gender budget (concept only); salient features of fiscal responsibility and Budget Management Act, 2003, fiscal devolution vis a vis fiscal dependency of local bodies, fiscal indicators- revenue dependency ratio (RDR), fiscal autonomy ratio (FAR), expenditure decentralization ration (EDR), municipal accounting and auditing (overview only)</p>				
Text / Reference Books:				
S. No.	Name of Authors	Titles of the Book	Edition	Name of the Publisher
1.				
2.				
List of Exercises / Practical:				
1	Visit to			

Name of the Course: Masters in Urban & Regional Planning (MURP): Fourth Semester				
Name of the Subject: RESETTLEMENT AND REHABILITATION (ELECTIVE-III)				
Subject Code: MPL 401-D		Semester: Fourth		
Duration: 16 weeks (48 Hours)		Maximum Marks: 100		Credits: 3
Teaching Scheme		Examination Scheme		
Lecture : 2 hrs. /week		External Assessment: Marks 50		
Tutorial : 1 hr. /week		Internal Assessment: Marks 50		
Aim: To provide an acquaintance with governance structure and fiscal and financial background of the local governments and tools and techniques to strengthen them				
Contents				
Unit - 1	Land development and resultant resettlement 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.			Hrs.
Unit - 2	Impact of resettlement and rehabilitation (R and R) plan Poverty and social impact assessment for development project; linear projects (roads, railways etc.), vis-à-vis non-linear projects (township/ industrial area development, dams, forests), impact on vulnerable and indigenous groups; project 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, 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 - 3	Rehabilitation Policies, assessing the livelihood losses, livelihood impact assessment and skill mapping surveys, income restoration strategies, training strategy for skill upgradation and meeting demands for shifting economic profiles in the development areas			
Unit - 4	Participation as an important tool for resettlement and rehabilitation 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 and R intervention			
Text / Reference Books:				
S. No.	Name of Authors	Titles of the Book	Edition	Name of the Publisher
1.				
2.				
List of Exercises / Practical:				
1	Visit to			

Name of the Course: Masters in Urban & Regional Planning (MURP): Fourth Semester				
Name of the Subject: THESIS-II				
Subject Code: MPL 402		Semester: Fourth		
Duration: 16 weeks		Maximum Marks: 900		Credits: 22
Teaching Scheme		Examination Scheme		
Tutorial : hrs. / week		External Assessment (viva only): Marks 450		
Practical : hrs. / week		Internal Assessment (TA only): Marks 450		
Aim: To develop independent critical thinking and design research abilities and apply the knowledge gained, skilled developed and professionalism inculcated over the last three semesters in an exercise of own interest and significant complexity				
Contents				Hrs.
Unit - 1	<p>Thesis Students are expected to write a thesis on the topic selected by them with the constant guidance from faculty members; students are expected to obtain the skills in understanding the various aspects of regional planning and apply them in their thesis work. Quality work in the thesis is expected, leading to get the results published in one international conference/ Journal of international repute.</p> <p>Composition Of Jury Panel For Internal Evaluation Of Thesis At Every Stage - There shall be one or more jury panels. Each panel shall consist of the following - Senior faculty member, an architect/planner, (Professor/Asso. Professor) of the Department of the parent institution / university. Junior faculty member, an architect/planner, (Asst. Professor) of the Department of the parent institution / university. Thesis Guide(s). There shall be FOUR juries/presentations for each student in order to assess.</p> <p>Composition Of Jury Panel For Final (External) Evaluation / Examination Of Thesis. - There shall be one or more jury panels. Each panel shall consist of the following - An Architect/Planner Director / Principal / Head of the Department / Professor of the parent institution / university. An Architect/Planner Director / Principal / Head of the Department / Professor of other than the parent institution / university. An eminent architect/planner from the profession with at least 15 years of field experience. Thesis Guide(s) as member, but not part of evaluation. Further the Thesis Coordinator (s) will act as facilitator.</p>			
Text / Reference Books:				
S. No.	Name of Authors	Titles of the Book	Edition	Name of the Publisher
1.				
2.				
List of Exercises / Practical:				
1	Visit to			