

Scheme of Postgraduate Programme
Master of Planning (Urban and Regional Planning)

First Year : First Semester (Integrated Semester)					
Subject Code	Subject	WCH	ESE Format		Credits
MPLN0101	Integrated Planning Studio	12		VV	12
MPLN0102	Planning History and Theory	2	WR		2
MPLN0103	Built Environment	2	WR		2
MPLN0104	Economics & Sociology	2	WR		2
MPLN0105	Demography & Quantitative Methods	2	WR		2
MPLN0106	Infrastructure Planning	2	WR		2
MPLN0107	Planning Techniques	3	WR	VV	3
	Total	25			25

WCH-WEEKLY CONTACT HOURS ESE-END SEMESTER EXAMINATION VV-VIVA-VOCE WR-WRITTEN EXAM

Scheme of Postgraduate Programme
Master of Planning (Urban and Regional Planning)

First Year : Second Semester

Subject Code	Subject	WCH		ESE Format	Credits
		T	P		
MPUR1201	Planning Studio- I (Regional Planning)	0	9	VV	9
MPUR1202	Regional Planning and Analysis	3	0	WR	3
MPUR1203	Planning Legislation and Institutional Framework	3	0	WR	3
MPUR1204	Elective I A. Transportation Planning B. Rural Area Planning and Development C. Disaster Mitigation and Management D. Urban Design and Landscape	3	0	WR	3
	Urban Governance and Finance				
MPUR1205	Seminar and Technical Report Writing	1	3	VV	4
	Total		13	12	25

WCH-WEEKLY CONTACT HOURS ESE-END SEMESTER EXAMINATION VV-VIVA-VOCE WR-WRITTEN EXAM

FIRST YEAR : SECOND SEMESTER						
Subject Name	Subject Code	Mode of Instruction	Method of Evaluation	Number of Weekly Periods	Credits	Learning Domain
Planning Studio- I (Regional Planning)	MPUR1201	Lecture, Guided Practice, Group Exercise	Viva voce	9	9	Studio
Learning Objectives	Subject Contents		Learning Outcome			
To impart necessary knowledge and skills to enable students to: <ul style="list-style-type: none"> • Synthesize knowledge and skills obtained in the core courses in planning in order to prepare a plan for a region (<i>district/metropolitan region/Special Investment region etc.</i>) • Get involved in a practicum to understand the association amongst land, resources, disparity, diversity, interdependence demography, environment, economy and equity in an regional setting • formulate alternatives planning interventions 	<p>Module 1: Understanding the Region Physical and geographical attributes of the region; Regional demographic profile; Regional economic scenario</p> <p>Module 2: Identification of the Regional Typology Settlement pattern in the region; Special characteristics of the region</p> <p>Module 3: Resource Inventory of the Region Resource mapping; Regional diversity in resource endowment; Regional disparity in development</p> <p>Module 4: Infrastructure Profile of the Region Inter and intra regional connectivity; Mapping of social, physical and economic infrastructures</p> <p>Module 5: Developing Alternative Scenarios Identification of sectoral and spatial development issues; Identification of potential thrust areas and constraints; Understanding the institutional mechanisms and statutory framework; Designing of alternative planning strategies and management plans.</p> <p>Note: Writing reports in prescribed format with referencing and appropriate maps, charts, tables and figures etc. for the required plan</p>		Upon the completion, students would be able to: <ul style="list-style-type: none"> • Appreciate the settlement pattern • Document, analyse and represent data spatially • Envision the spatio-economic growth trajectory of the region • Propose spatial and sectoral interventions at regional scale, both in urban and rural context • Write a report in the prescribed format 	References will be as per the study area and the concerned issues appropriate for the study undertaken		

Annexure-III (b)

FIRST YEAR : SECOND SEMESTER						
Subject Name	Subject Code	Mode of Instruction	Method of Evaluation	Number of Weekly Periods	Credits	Learning Domain
Regional Planning and Analysis	MPUR1202	Lecture, Case Study Method, Guided Practice, Group Exercise	Written	3	3	Knowledge and Skill
Learning Objectives	Subject Contents			Learning Outcome		
To impart necessary knowledge and skills to enable students: <ul style="list-style-type: none"> • appreciate the rationale for planning at regional level • explain the difference between regional disparity and diversity • understand various techniques of regional analysis • explain the functions of institutional mechanisms at regional level • describe the salient features of regional plans of India and abroad 	<p>Module 1: Understanding of Region Concept of region; Typology of regions; Problem region and regional problems; Rationale behind regional planning</p> <p>Module 2: Appreciating Regional Interdependence, Disparity and Diversity Regional disparity vis a vis regional diversity; Measuring regional disparity and interdependence (factor analysis and regional input-output model); Measuring regional diversity (resource endowment, physio-economic and demographic features)</p> <p>Module 3: Regional Analysis Factors and indicators of competitiveness; Shift and share analysis, Measures of concentration and dispersion / diversification: Shanon's entropy, Hirschman – Herfindahl index, Simpson index; Relative income potential model; Gravity model (log linear), Spatial interaction models; Index of spatial inequality: Lorenz curve / Spatial Gini coefficient; Localization and specialization: Location Quotient, Spatial autocorrelation; Regional Economic growth models; Cluster analysis</p> <p>Module 4: Institutional Mechanism in Regional Planning in India District planning in India in the context of Constitutional 73rd and 74th Amendment Acts; Functions of District Planning Committee (DPC) and Metropolitan Planning Committee (MPC); Regional Planning Authorities in India</p> <p>Module 5: Metropolitan Planning and Development Metropolitan planning: concepts and framework; Metropolitanization: growth and associated problems; Metropolitanization: decentralization, area of influence; Concepts of satellite towns and counter-magnets; Contemporary metropolitan planning tools and techniques</p> <p><i>(Assignments in this subject shall inter alia include critical review of national and international regional plans)</i></p>			Upon the completion, students would be able to: <ul style="list-style-type: none"> • identify the typology of a region from given characteristics • measure / map inter regional disparity / diversity • measure regional interdependence • apply the different techniques of regional analysis • refer to the role of statutory institutional mechanisms in regional planning • list the steps in metropolitan / regional planning 	<ul style="list-style-type: none"> • Methods of Regional Analysis: An Introduction to Regional Science, Walter Isard, MIT Press, Cambridge, 1960 • Regional Planning, J.G.M. Hilhorst, Rotterdam University Press, 1971 • Regional Planning, David A. Plane, (Ed.), Cheltenham Edward Elgar, 2008 • Research Methods in Urban and Regional Planning, Xinhao Wang and Rainer Hofe, Springer, 2007 • Regional Planning – Concepts, Techniques, Policies and Case Studies, R.P. Misra, , Concept Publishing Company, 2010 • An Introduction to Regional Planning, John Glasson and Tim Marshall, Routledge, 2007 • Regional Planning and Development, R.C. Chandana, Kalyani Publishers, 2015 • Regional Planning in India, Mahesh Chand and V.K. Puri, Allied Publishers Pvt. Limited, 2010 • Geography: Realms, Regions and Concepts, Harm J. De Blij and Others, Hoboken, 2014 • Readers' Volume on Regional Planning and Development, Abdul Qaiyum, ITPI, New Delhi, 2010 • The Role of Intermediate Towns in Regional Development : A Case Study, National Institute of Urban Affairs (NIUA), NIUA, New Delhi, 2004 • Regional Development and Planning in India, V.K.Nath, Concept Publication,2009 • Urban and Regional Planning Reader, Eugenie L. Birch, Oxon Routledge, 2009 	

Annexure-III (b)

Subject Name	Subject Code	Mode of Instruction	Method of Evaluation	Number of Weekly Periods	Credits	Learning Domain
Planning Legislation and Institutional Framework	MPUR1203	Theory				
Learning Objectives	Subject Contents		Learning Outcome	References		
<p>The objective of the course is to inculcate the understanding of :</p> <ul style="list-style-type: none"> • legislative framework in relation to planning and development • institutions involved and their role in various planning activities • application of law in various 	<p>Module 1:Introduction to Planning Legislation The Meaning, significance and objectives of planning legislation; Constitutional basis and provisions relating to land, Its development and use;</p> <p>Module 2: Survey of Different Planning Legislation Evolution of planning legislation in India; Overview of legal tools for urban planning & development (Town and Country Planning Act, Improvement Trust and Development Authorities Act, etc.) for any State; Overview of development control regulations- zoning, Sub-division regulations, Building Regulations and Bye Laws; Apartment Ownership Act; RERA</p> <p>Module 3: Land Related Legislations in India Legislation for land acquisition and land ownership (including understanding of land registration process, circle rates, land revenue codes, agricultural land ceiling and land policy at state level)</p> <p>Module 4: Legislation and Governance Legislation related to local government (73rd and 74th CAA, municipal acts, panchayat acts, community participation law)</p> <p>Module 5: Inter-country Comparisons of Planning Legislation Legislation on conservation of natural resources and heritage building; Inter-country comparisons for convergence and divergence of legislation case studies.</p>	<p>Upon the completion, students would be able to:</p> <ul style="list-style-type: none"> • Prepare frameworks and mechanisms related to land-based development • Relate spatial governance and development actions • Apply statutory provisions for undertaking development projects • Apply legal concepts towards addressing urban development • Compare inter-country Planning Legislations to bring out way forward 	U C Shah Constitution of India State- T&CP Acts, Municipal Acts, LR Codes, Agricultural Land Ceiling Acts, Central LARR Act, RERA Act, EP Act and related rules and notifications Add references and year			

Annexure-III (b)

Subject Name	Subject Code	Mode of Instruction	Method of Evaluation	Number of Weekly Periods	Credits	Learning Domain
Transportation Planning	MPUR1204 (A)	Lecture and Assignments	Written	3	3	Knowledge
Learning Objectives	Subject Contents		Learning Outcome	Recommended Readings		
<ul style="list-style-type: none"> To impart necessary knowledge and skills to enable students: To understand basis of land use transport relationships to gain knowledge about the underlying operating and economic principles in order to develop solutions to various public transport and NMT To gain insight into different aspects of regional connectivity planning and four stage modelling 	<p>Module 1: Overview of Transport-Land Use Integration: Transportation systems; Technological characteristics of transport modes and systems; The nature of demand and supply of transport services; The spatial structure vis-a-vis the level and quality of transport supply systems; National Urban Transport Policy 2006; Understanding sustainable development and transport; Land use and transport planning; Land use transport integration models.</p> <p>Module 2: Travel Demand Forecasting: Transportation planning process: Area delineation; Zoning (TAZ); Trip generation; Trip Distribution; Trip assignment and modal split; Software applications.</p> <p>Module 3 Transport Economics Economics of demand for and supply of transport services; Elasticities in transport Demand; Pricing and Revenue in Transport: External cost of urban transportation, Congestion pricing.</p> <p>Module 4: Public Transport and NMT Planning: Role of public transportation in urban development, Transit system planning and mode selection; Public transport network design and operation; Multimodal hubs; Pedestrianisation and non-motorised transportation- Issues, policies and case studies towards more inclusive cities.</p> <p>Module 5: Regional Transport: Regional road development strategy; Dedicated freight corridors; Transport hubs in relation to regional distribution linkages; Intercity connectivity; Urban –Rural linkages; Road and rail as competing or complementary modes.</p>		Upon the completion, students would be able to: <ul style="list-style-type: none"> Understand the key issues affecting the demand, cost, planning and management of public transport and NMT Planning the scheduling of public transport operations, demand forecasting, cost modelling, pricing policies and principles behind regulation and privatisation Analyze travel characteristics data and conduct four stage modeling and Regional transport infrastructure assessment. 	<ul style="list-style-type: none"> Modelling Transport (2011), Juan De Dios Ortuzar, Luis G. Willumsen, Publisher: John Wiley & Sons Integrated Land Use and Transport Modelling, Author: Tomas De La Barra, Publisher: Cambridge University Press. Location, Transport and Land-Use: Modelling Spatial-Temporal Information, by Yupo Chan, Publisher: Springer The Economics of Transport: A Theoretical and Applied Perspective, Jonathan Cowie, Routledge Transportation Engineering and Planning, C. S Papacostas, P. D Prevedouris PHI Learning Transportation Engineering: An Introduction, C. Jotin Khisty, B. Kent Lall Phi Learning Public Transportation Improvement, Semiat Idris, Lambert Academic Publishing The Economics of Transport: A Theoretical and Applied Perspective, Jonathan Cowie, Routledge Integrated Land Use and Transport Modelling, Author: Tomas De La Barra, Publisher: Cambridge University Press. <p>Year</p>		

Annexure-III (b)

Subject Name	Subject Code	Mode of Instruction	Method of Evaluation	Number of Weekly Periods	Credits	Learning Domain
Rural Area Planning and Development	MPUR1204 (B)	Theory	Written exam	3	3	Knowledge, skill and Value
Course Objective	Planning for sustainable rural development					
Learning Objectives	Subject Contents		Learning Outcome	Recommended Readings		
Inculcate the understanding of: - Rural society and its livelihood - Importance of natural resources for rural development - Integration between rural and urban - Rural governance and institutional mechanism - Rural issues and challenges - Rural planning and management approaches	Module 1: Introduction to Rural Livelihood and Settlement Pattern Rural livelihood: socio-economic scenario of rural settlement, skills, non-farm activities, rural-urban linkages; Source of livelihood - land, water, forest, agriculture and allied sector; Rural settlement pattern – factors, types, etc. Module 2: Rural Development Policies and Governance Pre and post independence rural policies: Five year plans, Natural resource management policies, Livelihood enhancement policies and schemes; Structure of rural governance: Panchayti Raj Institutions, Rural finance, e-governance, etc. Module 3: Rural Development - Issues and Challenges Issues in rural development: Agri-crisis, Rural poverty, Education, Health, employment, Economic infrastructure, Drinking water, Sanitation, Capacity building, Peri-urbanization, Project implementation, etc. Module 4: Natural Resource Management Irrigation management: Watershed - soil conservation, Wet land management, Flood plain zoning; Water management – drinking and domestic water, Rain water harvesting; Integrated energy management- Harnessing renewable energy; Forest resource management; Case studies Module 5: Spatial Village Development Plan Baseline scenario; Identification of issues and challenges; Data collection process and analysis; Planning approaches - Stakeholders' participation, Tools and techniques, Spatial assessment; Preparation of the development plan.		Students will gain the capacity to: - Identify the issues and challenges of the rural development - Carry rural development projects in various areas such as, impact assessment, preparation of management plan, spatial plan, etc.	<ul style="list-style-type: none"> Eleventh Five Year Plan 2007-2012: Volume I: Inclusive Growth; Volume II: Social Sector Services; Volume III: Agriculture, Rural Development, Industry, Services, and Physical Infrastructure, Planning commission, Government of India, 2008 Twelfth Five Year Plan 2012-2017: Volume I: Planning commission, Government of India, 2013 Rural Sociology, Rajendra Kumar Sharma, Atlantic Publishers & Distributors Pvt Ltd, 2011 Rural Development in India K. R. Gupta, Atlantic Publishers and Distributors Pvt Ltd; 1 edition 2017 Co-Operatives & Rural Development in India Dr. Rais Ahmad, New Century Publications; 1 edition 2013, India's Rural Transformation and Development, Thomas G. Fraser D.K. Printworld Ltd. 2013 Planning and Management for Rural Development , S. P. Singh, Mittal Publications; 1ST edition , 2003 Rural Development: Principles, Policies and Management, Kartar Singh, Sage Publication, 2009 Participatory Rural Appraisal: Principles, Methods and Application, N. Narayanasamy, Sage Publication, 2009 		

Subject Name	Subject Code	Mode of Instruction	Method of Evaluation	Number of Weekly Periods	Credits	Learning Domain
Disaster Mitigation and Management	MPUR-1204(C)	Lecture & Tutorial	Written	3	3	Knowledge
Course objective	To understand the concepts of disaster management and apply them in the context of spatial planning					
Learning Objectives	Subject Contents			Learning Outcome	Recommended Readings	
<p>The objective of the course is to inculcate understanding of :</p> <ul style="list-style-type: none"> the concept of disaster management importance of various stakeholders in the process need to use disaster vulnerability maps as overlays in spatial planning exercises need for preparing a Disaster Management Plan (DMP) 	<p>Module 1: Introduction to Disasters & Disaster Management Disasters: Concept and definition of disasters; Hazard; Vulnerability; Risk; Capacity; Disaster management: Scope, Definition, Objectives, Elements, Terms, Phases; Recent Initiatives at international, national and state levels; Types, trends, causes and consequences of disasters-Natural disasters, Surficial Processes, Atmospheric processes, Man-made disasters; Climate change impacts and urban disasters.</p> <p>Module 2 : Disaster Risk Reduction International disaster governance: Theory and practice from Hyogo to Sendai; Integrating the four research communities: Disasters, Development, Climate change and Poverty alleviation; Social capital; Adaptation and Socio- political transformation; Human security; Community resilience and Decentralized disaster governance.</p> <p>Module 3: Pre-Disaster Management Measures Preparedness : The nature of preparedness; Problem areas in preparedness; Summary of preparedness needs; Maintenance of preparedness levels; Early warning aspects; Precautionary measures prior to disaster impact; Resources relevant to preparedness arrangements; Components of prevention and mitigation.</p> <p>Module 4 : Post-Disaster Management Measures Response : Essential Components; Stakeholders' co-ordination; Human behaviour and response management; Relief measures; Recovery: Reconstruction and rehabilitation as means of development; Damage assessment; Nature of damage to houses and infrastructure due to disasters; Development of physical and economic infrastructure; Disaster resistant house construction.</p> <p>Module 5 : Disaster Management Plan Components of disaster management plan: Vulnerability assessment and risk analysis; Preventive measures and mitigation plan; Preparedness measures; Response plan; Recovery plan; Exemplary Case Studies.</p>	<p>Upon the completion, students would be able to :</p> <ul style="list-style-type: none"> apply disaster management process in spatial planning prepare a Disaster Management Plan (DMP) 	<ol style="list-style-type: none"> 1. Guidelines risk analysis-a basis for disaster risk management. Alois Kohler, Sebastian Julich and Lena Bloemertz, 2004 2. Disaster Management through Panchayati Raj. Taori, Kamal, Concept Publishing Company, 2005 3. Disaster Management Handbook. Eds. Jack Pinkowski, CRC Press, 2008 4. A Manual on Disaster Management. Dr. Parag Diwan, Pentagon Earth, 2010 5. Environmental hazards and disasters: contexts, perspectives and management. Bimal Kanti, Paul, West Sussex John Wiley, 2011 6. Natural Disasters in a Global Environment. Anthony, N., Penna and Jennifer, S., Rivers, Wiley Blackwell, 2013 			

Annexure-III (b)

Subject Name	Subject Code	Mode of Instruction	Method of Evaluation	Number of Weekly Periods	Credits	Learning Domain
Learning Objectives	Subject Contents		Learning Outcome		3	Knowledge
To impart necessary knowledge and skills to enable students: • to acquaint student with the role of urban design and landscape planning in Urban and Regional Planning • To equip them with appropriate methods and techniques.	<p>Urban Design</p> <p>Module 1 Introduction to Urban Design Scope and Objectives of Urban Design; Its Relation with Architecture and Urban Planning; Urban Design Terminology; Imagesability and Elements of Urban Design; The Social, Perceptual, Functional, Temporal and Morphological Aspects of Urban Design.</p> <p>Module 2 Urban Design Approaches Principles of Urban Spatial Organization; Methods and Emerging Approaches to Urban Design at Micro and macro level such as placemaking, ToD and form based code Landscape</p> <p>Module 3 Elements and components of Landscape Elements of Landscape- Landform, Water and Vegetation; Characteristics and Components of natural resources and Open Space Patterns at urban and regional levels;- forest, water bodies, landforms, Streets, Parks, Squares, Plazas, Gardens, Ghats and Maidans, etc</p> <p>Module 4 Landscapes at local to regional scales Principles of Understanding and Evaluating an Existing Landscape (on the basis of hydrology, geology, vegetation, climate etc); Site Planning; Site and Resource Inventory Methods, Analyses and Appraisal; Landscape Suitability Analysis; Development as a Response to Constraints and Opportunities Offered at different scales.</p> <p>Module 5 Case studies and best practices Understanding Scale and Issues of Urban Design Interventions and Strategies in Cities through Case Studies of Projects at urban and regional scale; case examples of - Campus Planning, City Centres, Transportation Corridors, ToD, Residential Neighbourhoods etc</p> <p>Understanding Scale and Issues of Landscape planning as a Component of Urban and Regional Development Proposals; Planning in the Context of Urban Extensions, New Towns, Open Spaces and networks; Plantations along road network and movement corridors; Landscaping of Recreational Areas</p>	<p>Upon the completion, students would be able to:</p> <ul style="list-style-type: none"> • Apply urban design approaches to improve built environment at different scales • Map City resource inventory for landscape planning • Evaluate and apply landscape 	<p>Suggested Readings</p> <p>Urban Design</p> <ol style="list-style-type: none"> 1. The Urban Design Reader, Elizabeth McDonald, Routledge, New York 2. Public Places Urban Spaces: Dimensions of Urban Design, Mathew Carmona, Steve Tesdell, Architectural Press, London. 3. Redesigning Cities: Principles, Practice, Implementation, Jonathan Barnett , American Planning Association , New York 4. Recommended Environments , Ian Bentley, Architectural Press, London 5. Image of the City , Kevin Lynch, MIT Press 6. Urban Design: The Architecture of Towns & Cities, Paul D. Spreiregen, R.E. Krieger Pub. 7. Town Design , Frederick Gibberd, Architectural Press, London 8. Making People Friendly Towns – Improving the Public Environment in Towns and Cities, Francis Tibbalds, Spon Press, London. 9. The Concise Townscape, Gordon Cullen, Taylor and Francis, London. 10. My Idea of India, Sunil Khilnani, Farrar Straus and Giroux. <p>Landscape</p> <ol style="list-style-type: none"> 1. Design with Nature, Ian L. McHarg, John Wiley 2. Landscape Architecture: A Manual of Environmental Planning and Design, John O. Simonds 3. Urban Landscape Design, John A. Flannery et all, The Neues Publishing Company 4. Routledge Handbook of Urban Ecology, Ian Douglas ed., Routledge 5. The Dynamic Landscape: Design, Ecology and Management of Naturalistic Urban Planning, Nigel Dunnett et all, Taylor and Francis 6. Anatomy of a Park: Essentials of Recreation Area Planning and Design, Dahl B. and Donald J. Molnar, Illinois, Waveland Press 2003 7. Basics Landscape Architecture 01: Urban Design, Ed Wall and Tim Waterman, London AVA Academia, 2009 8. Time-Saver Standards for Landscape Architecture, C.W. Harris and N.T. Dines, New York, McGraw-Hill, 1998 			

Annexure-III (b)

Subject Name	Subject Code	Mode of Instruction	Method of Evaluation	Number of Weekly Periods	Credits	Learning Domain
Learning Objectives	MPUR 1205	Lecture	Assignment, Seminar, Class Tests, Written Examination	3	3	Knowledge
To impart necessary knowledge and skills to enable students: • appreciate the constitutional sanctity of municipal governments • explain the constitution and function of municipal governments and other urban institutions / agencies • relate the context of the use of various urban management tools • explain the urban reform issues and imperatives • recognize the constitutional provisions of municipal finance • explain the framework of municipal fiscal and non fiscal resource mobilisation	Subject Contents	Module 1: Urban Governance Architecture Constitutional provision of urban governance; Composition of urban local governments; Functions of urban local governments; Composition and function of Constitutional urban institutions and urban parastatal (Metropolitan Planning Committee, Development Authorities, Improvement Trusts, SEZ, SPVs etc.) Module 2: Urban Management Tools Service level benchmarking: KPIs in benchmarking different urban services, Standardization of service level benchmarking; Citizens' Charter, Corporatization of municipal services; Service delivery improvement plan; Citizens' participation in urban governance ; Participatory Learning and Action exercise; e municipal Governance; Report card system; Innovations in urban management in India ; Reference to best practices	Learning Outcome Upon the completion, students would be able to: <ul style="list-style-type: none"> compare the functional and institutional differences amongst different urban institutions and organisations use the different context specific urban management tools justify the urban reform issues and imperatives objectively list the sources of municipal tax and non tax revenue evaluate the municipal fiscal scenario quantitatively prepare the checklists for accessing money market and capital market by the municipal government formulate municipal resource roadmap from monetary exaction and land exaction purview 	1. Constitution of India, D.D. Basu, S. Chand and Sons, New Delhi, (Latest edition / reprint) 2. India: The Challenges of Urban Governance, O.P. Mathur, National Institute of Public Finance and Policy, New Delhi 3. Local Government in India – Niraj Gopal et all., Oxford University Press, (Latest edition / reprint) 4. New Forms of Urban Governance in India, Baud I.S.A. et all., Sage, (Latest edition / reprint) 5. Public Finance: Policy Issues for India, Sudipto Mundle, Oxford University Press, (Latest edition / reprint) 6. New Issues in Panchayati Raj, D. Bandopadhyay et all., Concept Publishing (Latest edition / reprint) 7. Fiscal Decentralisation to Local Government in India, M.A. Oommen, Cambridge Scholars Publishers, (Latest edition / reprint) 8. Federalism and Fiscal Transfers in India – C. Rangarajan et all., Oxford University Press, (Latest edition / reprint) 9. Costs and Challenges of Local Urban Services: Evidence from Indian Cities – O.P. Mathur et all., Oxford University Press, (Latest edition / reprint) 10. Fiscal Federalism in India – Vithal & Sastry, Oxford University Press, (Latest edition / reprint) 11. Financing Cities in India: Municipal Reforms, Fiscal Accountability and Urban Infrastructure, P.K. Mohanty, Sage, 2016 12. Urban Governance in India, C. Nagaraja Rao, Kalpaz Publications, 2016 13. Urban Governance in India : Reforms and Challenges, T V Sujatha Kumar et al., Raj Publications, 2016		Note: Students are advised to visit the website of Ministry of Housing and Urban Affairs, Ministry of Commerce, Ministry of Finance (Expenditure Division), Government of India, NIUA, HUDCO, World Bank, UNDP, UN-HABITAT, ADB, NIPFP and refer to the papers by K.C. Sivaramkrishnan, O.P. Mathur, Kala S. Sndhar, P.K. Mohanty, Atmaram Revi, Krithi Ramamirtham, Partha Mukhopadhyay, Amitabh Kundu, Isher Judge Ahluwalia, Solomon J. Benjamin
		Module 3: Urban Governance Reforms Administrative reforms in urban governance: Human resource management, Expenditure planning, Rightsizing and outsourcing; Performance auditing of municipal staff, Structural reform in urban governance; Organisational restructuring of urban governments: Task based municipal cadre; Inter Municipality and Municipality – CBO/NGO partnership; Simplification of procedures; Capacity building of municipal functions (An overview)				
		Module 4: Local Government Finance: Constitutional Provision Constitutional provision for local government finance: Principle of fiscal federalism; Powers and functions of Central Finance Commission and State Finance Commission ; Analysis of CFC and SFC (any one State) Report; Consolidated Fund (Central and State)				
		Module 5: Municipal Finance: Fiscal and Non Fiscal Regime Categorisation of municipal revenue; Municipal finance assessment framework; Paradigm shift in municipal finance; Reforms in property tax assessment; Rationalisation of user charges; Ringfencing; Streamlining municipal tax administration; Innovations in municipal finance; Monetary exaction and Land exactions; Accessing money market and capital market; Municipal budget; an overview; FRBM; Municipal accounting and auditing (overview only)				

Annexure-III (b)

FIRST YEAR: SECOND SEMESTER		Subject Name	Subject Code	Mode of Instruction	Method of Evaluation	Number of Weekly Periods	Credits	Learning Domain	
Seminar and Technical Report Writing Learning Objectives	MPUR1206	Lecture, Guided practice, Practical	Viva voce	Viva voce	4	4	Knowledge, Research skills		
The objective of the course is to:		Subject Contents	Learning Outcome						
<ul style="list-style-type: none"> Initiate the process of literature review related to frontiers of research in U in Spatial context. To explore various methods of conducting research Acquire report writing skills 		<p>Module 1: Identification of a Research Domain</p> <p>Identification of topic of interest having relevance to planning profession; Preparation of alternative seminar proposal abstracts.</p>	<p>Upon the completion, students would be able to:</p> <ul style="list-style-type: none"> Seek out literature on a research topic from various online and printed academic/research databases Engage in logical dialogues and discourses based on past research Articulate responses to various authors, books and papers and move from argument to argument in a succinct and logical way 	<ul style="list-style-type: none"> Research Methods in Spatial Planning: A Case-Based Guide to Research Design, Elisabete Silva and Others (Ed.) Routledge, 2014 Research Methods in Urban and Regional Planning, Xinhao Wang and Rainer Hofe, Springer, 2008 Researching the City: A Guide for Students, Kevin Ward, Sage, 2014 Research Methods in the Social Sciences, B. Sommehk and C. Lewin, Vistaar, 2009 Research Methods, John Adams and Others, Sage, 2012 Research Methodology: Methods and Techniques, D.R. Kapoor, Regal Publishers, 2013 Research Methods: The Basics, Nicholas Walliman, Routledge, 2015 Research methods and statistics by Sherri L. Jackson New Delhi Cengage Learning 2010 Evaluating research articles: from start to finish by Ellen R. Girden New Delhi Sage 2011 Introduction to research methods: a practical guide for anyone undertaking a research project by Catherine Dawson; New Jersey John Wiley 2010 Case study research: what, why and How? By Peter G. Swanson New Delhi Sage 2012 Qualitative data analysis using a diaigoical approach By Paul Sullivan New Delhi Sage 2012 Understanding and applying research design By Martin Lee Abbott, New Jersey John Wiley 2013 Research methodology and quantitative methods by Rao, G. Nageswara. Hyderabad BS Pub 2012 Research Methods: The Key Concepts By Michael Hammond and Jerry Wellington; Routledge; 2013 Methodological Thinking: Basic Principles of Social Research Design by Donileen R. Loseke, Sage: 2013 Research Methodology: A Step-by-Step Guide for Beginners by Ranjit Kumar; Sage: 2014 Research Methods: Designing and Conducting Research with a Real-World Focus by Carrie A Picardi; Sage: 2014 					
		<p>Module 2: Literature Review</p> <p>Review of books and journal articles and compilation of the same to establish the body of work existing in the selected area of work; Documentation of multiple view points and colloquial arguments.</p>	<p>Module 3: Identification of Challenges and Opportunities</p> <p>Establish different arguments and outcome of other research works in the selected area of work; Identify the research gaps or taking a new stance resulting in a literature review document/ position paper.</p>	<p>Module 4: Research Design</p> <p>Defining and formulating the research problem, Framing an appropriate Research Design, Collection of data and opinions of stakeholders on the selected topic (if not a descriptive design)</p>	<p>Module 5: Report writing and Poster Presentation</p> <p>Report writing in prescribed format with referencing and appropriate maps, charts, tables and figures etc in the form of a working paper/position paper/ review paper on the selected topic. Preparation of a Poster for presentation (similar as a conference poster)</p>				

Annexure-III (b)

**Scheme of Postgraduate Programme
Master of Planning (Urban and Regional Planning)**

Second Year : Third Semester

Subject Code	Subject	Second Year : Third Semester (URP)						Credits
		WCH		ESE Format				
T	P	T	P	VV	WR			
MPUR1301	Planning Studio- II (Urban Planning) Common Pool (Elective: A. Urban Redevelopment B. Urban Futures C. Geo spatial and Big Data Analysis Elective II)	0	9	3	0	WR	VV	9
MPUR1302	A. Planning for Special Areas B. Urban Sustainability and Future City- Region C. Community Planning	3	0					3
MPUR1303	Project Planning, Appraisal and Management	3	0	WR				3
MPUR1304	Land Market and Real Estate Management	3	0	WR				3
MPUR1305	Pre-thesis Research Design	1	3			VV		3
MPUR1306	Professional Training (Optional)	0	0		VV			4
Total		13	12					25

WCH-WEEKLY CONTACT HOURS ESE-END SEMESTER EXAMINATION VV-VIVA-VOCE WR-WRITTEN EXAM

Annexure-III (b)

SECOND YEAR : III SEMESTER

Subject Name	Subject Code	Mode of Instruction	Method of Evaluation	Number of Weekly Periods	Credits	Learning Domain
Planning Studio – II (Urban Planning)	MPUR1301	Lecture, Guided Practice, Group Exercise	Viva voce	9	9	Knowledge, skill and value
Learning Objectives	Subject Contents		Learning Outcome	Recommended Readings		
Overall Objective: • Synthesize knowledge and skills obtained in the core courses in planning in order to prepare a plan for an urban area	The studio is designed to study one particular urban area and analyse its issues and develop spatial plans with thrust on critical sectors. It focuses on the preparation of integrated development plan for a selected urban area analysing all aspects of physical planning		Upon the completion, students would be able to: <ul style="list-style-type: none"> • document and analyse the settlement pattern • propose spatial and sectoral interventions at urban scale, both in urban and peri-urban context • develop logical decisions to address the complex overlays of conceptualisation, implementation and finance. • formulate alternative planning interventions • write a report in the prescribed format 	Marshall, S. E. (2011). <i>Urban Coding and Planning</i> . London: Routledge. Palermo, P. C. (2010). <i>Spatial planning and urban development: critical perspectives</i> . Dordrecht: Springer. Ward, S. V. (2004). <i>Planning and urban change</i> . London: Sage. Berke, P. R. (2006). <i>Urban Land Use Planning</i> . Chicago: University of Illinois Press. Tiesdell, S. (2013). <i>Shaping places: urban planning, design and development</i> . Oxon: Routledge. Lord, A. (2012). <i>Planning game: an information economics approach to understanding urban and environmental</i> . Oxon: Routledge. Adams, D. (2005). <i>Urban planning and the development process</i> . London: Routledge. Riddell, R. (2007). <i>Sustainable urban planning: tipping the balance</i> . Malden: Blackwell Publishing. Lai, S.-K. (2014). <i>Urban complexity and planning</i> . Surrey: Ashgate. Fernandes, B. G. (2015). <i>Fixing flawed urban planning: the case of Delhi</i> . Ghaziabad: Copal Publishing. Choudhary, P. (2015). <i>Humane approach to urban planning</i> . Sahibabad: Copal Publishing Group. Chrysoulakis, N. (2015). <i>Understanding urban metabolism: a tool for urban planning</i> . Oxon: Routledge. Espino, N. A. (2015). <i>Building the inclusive city</i> . London: Routledge. Palermo, P. C. (2015). <i>Place-making and urban development: new challenges for contemporary planning and design</i> . London: Routledge. Etingoff, K. (2017). <i>Sustainable cities: urban planning challenges and policy</i> . Oakville: Apple Academic Press. Ramasubramanian, L. (2018). <i>Essential methods for planning practitioners: skills and techniques for data analysis, visualization and communication</i> . Switzerland: Springer. Pareek, D. G. (2008). <i>Form Based Codes: A Guide for Planners, Urban Designers, Municipalities and Developers</i> . New Jersey: Wiley. Healey, P. (2007). <i>Urban complexity and spatial strategies: towards a relational planning</i> . Oxon: Routledge. Levent, T. B. (2008). <i>Urban Planning</i> . Cheltenham: Edward Elgar Publications. Dubey, R. N. (2010). <i>Urbanization and urban planning in India: vision and reality</i> . New Delhi. Ward, S. V. (2004). <i>Planning and Urban Change</i> . London: Sage. Potter, R. B. (2011). <i>Urbanisation and planning in the 3rd world</i> . Oxon: Routledge. Levy, J. M. (2013). <i>Contemporary Urban Planning</i> . Boston: Longman.		
Learning Objectives: <ul style="list-style-type: none"> • to understand how urban quality of life depends on the association amongst land, resources, disparity, diversity, interdependence, demography, environment, economy and equity in an urban setting through involvement in a practicum • How to formulate different scenarios and evaluate the same for future policy making/ plan preparation 	<p>Module 1: Identification and Formulation of Planning Objectives for the Project Literature review of various types of plans, planning processes, manuals for plan making, guidelines, case studies of different development plans.</p> <p>Module 2: Survey of the Study Area Identification of primary and secondary sources of information, questionnaire preparation (physical/ online/ maptionnaire); Survey of the study area: Data collection, Stake holder participation, Analyses and presentation of data and information</p> <p>Module 3:Review of Planning Objectives Issue identification SWOT analysis and review of planning objectives; Planning for urban area and its region (structure plan / development plan) with emphasis on: Land use, transportation networks and Infrastructure networks</p> <p>Module 4: Urban Governance and Policies Plan Implementation strategies;, project funding options, Implementation strategies including urban governance and management issues</p> <p>Module 5: Scenario Building and Implementation Strategies Developing Alternative scenarios, Implementation strategies including urban governance and management issues including urban governance and management issues Planning for urban area and its region (structure plan / development plan) with emphasis on: Land use, transportation networks and Infrastructure networks</p>					

Annexure-III (b)

SECOND YEAR : III SEMESTER						
Subject Name	Subject Code	Mode of Instruction	Method of Evaluation	Number of Weekly Periods	Credits	Learning Domain
Urban Redevelopment	MPUR1302 A (Common Pool)	Theory and Practical	Written	3	3	Knowledge and skill
Learning Objectives	Subject Contents				Learning Outcome	
<p>The objective of the course is to inculcate the understanding of :</p> <ul style="list-style-type: none"> • basic concepts in urban renewal & redevelopment • discourses relating to processes of urban renewal and change • a critical awareness of theory relating to the process of urban renewal & redevelopment • application of concepts to specific practice settings and questions 	<p>Module 1: Concepts and Theories Concepts and Theories Relevant to the Study of Urban Redevelopment; Changing Cities & Neighbourhoods; Spatial Planning and trends in urban development in developing countries; Regenerating Cities: An Overview of the Development, Delivery and Impact of Regeneration Strategies; Regeneration in Indian Cities in the Context of Global Change and Competition and Experiences in Asian Countries</p> <p>Module 2: Policy Frameworks Policy Frameworks for Urban Redevelopment The Actors, Institutions, Ideologies, Information (Evidence), Popular Opinion, The Media and Other Factors that Influence Urban Policy-Making and Policy Outcomes with Respect to Urban Renewal and Regeneration.</p> <p>Module 3: Role of Private and Public Sector Agencies The Role of Public Sector Agencies for redevelopment; Area Based Initiatives; Property-Led Policies; Investment and Funding Schemes; Role of private sector in redevelopment- Nature of In-fill; Development Potential and Pricing; Land locking and stagnation; Plot reconstitution; Renewal through Housing and Mixed Use Development; Community Participation in Renewal Schemes; Sustainable Development through Urban Renewal; Brownfield Development with Respect to Urban Renewal in Cities.</p> <p>Module 4: Urban Conservation Integrated Urban Conservation – Principles; Economic, Legal and Tourism Aspects; Planning Procedures, Inspection and Surveys; Investigation Techniques; Methods for Inventories and Documentation; Identification and Reporting on Heritage Zones; Grading and Enlisting</p> <p>Module 5: Management of Heritage Zones Programs and Techniques for Adaptive Reuse, Restoration, Rehabilitation; New Buildings in Historic Settings – Aspects and Design Methods; Implementation of Plans and Urban Management; Phasing, Resource Mobilization, Incentives; Acts and Legal Tools;</p>				<p>Upon the completion, students would be able to:</p> <ul style="list-style-type: none"> • understand the concept of Urban Redevelopment • Analyse the policies for Urban Redevelopment • Evaluate the role of Private and Public Sector Agencies • Document and report the zones for intervention • Prepare plan for urban redevelopment projects 	<ul style="list-style-type: none"> • Urban Regeneration Handbook, Roberts and Sykes, Sage, 2012 • Urban Planning and Development Process in Renewal D. Adams, UCL press, London. • Management of Regeneration, Diamond and Liddle, Routledge, London, 2005 • An Introduction to Urban Renewal, Michael Gibson, Hutchinson, 1982 • Urban Renewal: Theory and Practice, Chris Koch, Macmillan. • Gentrification and Urban Change, Ray Hutchinson, JAI press. • Fractured metropolis : improving the new city, restoring the old city, reshaping the region, by Barnett, Jonathan. New York Westview Press 1955 • Finding Delhi: loss and renewal in the megacity by Chaturvedi, Bharati. Surrey Ashgate 2009 • Urban revitalization: policies and programs by Wagner, Fritz W. ed California Sage 1995 • Re-visioning Indian cities: the urban renewal mission by Sivaramakrishnan, K. New Delhi Sage 2011

Annexure-III (b)

SECOND YEAR : III SEMESTER					
Subject Name	Subject Code	Mode of Instruction	Method of Evaluation	Number of Weekly Periods	Credits
Geo spatial and Big Data Analysis	MPUR1302 C (Common Pool)	Theory and Practical	Written	3	3
Learning Objectives	Subject Contents	Learning Outcome			

The objective of the course is to inculcate the understanding of :

- various tools available in GIS to map large data sets
- Analyzing patterns using different techniques of advanced geo-spatial analysis
- Understand the concept of Big Data

Module 1: GIS &3D Mapping Techniques
Coordinate systems and Projections, Spatial Data Models, geo-processing tools and mapping techniques , raster data analysis; Multi-platform data handling- Conversion of GIS data to CAD format and vis-a-vis; 3D mapping techniques in ArcScene.

Module 2: Spatial Analysis and Related Mapping Techniques

- Location Analysis: suitability analysis, vulnerability analysis, hotspot analysis, Application of near tool, shadow analysis;
- Identifying pattern: supervised and unsupervised classification, review of indices, Digital change detection.

Module 3: Big Data Concepts
Evolution of Concept: Cloud platform, Internet of Things and Types of Big Data; Big Data in Urban Planning and Urban Metabolism;

Module 4: Urban Sensing
Context and Currently Available Datasets for Urban Sensing, 'Real-Time' Planning, Digital Footprint; Urban Dynamics and Applications of Urban Sensing: Mobile Phone Network Data, Event Driven Network Data etc; Monitoring Land Use and Land Use Inferences, Sensing Urban Mobility and other urban issues

Module 5: Case Studies and Relevant Researches
Global and national case studies for Sensing Urban Problems, Sensing Urban Mobility, Deciphering Urban Activities etc using big data applications

Upon the completion, students would be able to:

- prepare 3D maps
- carry out data conversion between ArcGIS and CAD
- perform different Spatial Analyses
- know and use the Big Data sources for evaluating urban issues
- explore the applicability of Big Data in spatial planning

Remote Sensing and Image interpretation by Thomas Lillesand, Ralph Keifer., Wiley publication.

- Concepts and Techniques of Geographic Information Systems by Chor Pang Lo; Prentice-Hall of India Private Ltd.
- Getting to know ArcGIS Desktop by Tim Ormsby; ESRI Press.
- Mastering ArcGIS by Maribeth Price; McGrawHill.
- Applied Remote Sensing in Urban Planning, Governance and Sustainability, Netzband, Springer, India
- Environmental Modelling with GIS and Remote Sensing, Andrew Skidmore et al, CRC Press
- Geographic Information Systems and Science, PA Longley et al, John Wiley and Sons Ltd.
- GIS, Spatial Analysis, and Modelling, David J Maguire et al, ESRI Press
- Landuse Change Detection using GIS, Remote Sensing and Spatial Matrices, Mesfin T Bekalo et al, Lap Lambert Academic Publications
- Land Sustainability Evaluation using GIS and Remote Sensing Technology, Mezenzia Mengist, Vdm Verlag
- Remote Sensing and GIS Integration: Theories, Methods and Applications, Qihao Weng, McGraw Hill
- Remote Sensing and GIS, Basudeb Bhattacharya, Oxford University Press
- Big Data and Internet of Things: An Asset for Urban Planning ACM Digital Library Rathore, M. Mazhar | Ahmad, Awais | Paul, Arand
- Urban computing: enabling urban intelligence with big data SpringerLink by Zheng, Yu

Students are advised to Refer relevant papers from huge repository available on NDL I, DOAJ etc

Annexure-III (b)

SECOND YEAR : III SEMESTER		Subject Code	Mode of Instruction	Method of Evaluation	Number of Weekly Periods	Credits	Learning Domain
Subject Name						3	Knowledge
Planning for Special Areas	MPUR – 1303A	Lecture, Assignments and Case studies	Written	3			
Learning Objectives	Subject Contents	Learning Outcome	Recommended Readings				
To impart necessary knowledge and skills to enable students: <ul style="list-style-type: none"> • explain the typology of special areas • define the salient features of special areas on different aspects • explain the governance framework of special areas • identify the infrastructural needs of special areas • explain the salient features of different programmes and policies for special areas 	<p>Module 1: Classification of Special Areas Evolution and Need for Special Area Planning; Defining special areas; Typology of formal and functional special areas: boarder area, hill area, coastal area, desert area, extremist affected area, Special Economic Zones, Port City, Aerotropolis, Medi-City, Knowledge City, Heritage Area Defence Area etc.; Contemporary approaches for Special Area Planning</p> <p>Module 2: Characteristics of Special Area Socio Economic, Physiographic, Geographic And Political Features of Special Areas</p> <p>Module 3: Governance of Special Areas Legislation and Governance framework of special areas; Land management in special areas; Survey of statutes governing special areas</p> <p>Module 4: Infrastructure for Special Areas Unique infrastructural needs of special areas; Planning standards for special areas, Capital investment and funding methods, public private partnerships in development process</p> <p>Module 5: Programmes and Projects for Special Areas Survey of programmes and projects for special areas; Best practices of Special Area Planning</p>	Upon the completion, students would be able to: <ul style="list-style-type: none"> • delineate the functional domain of special areas • collate and tabulate the information on socio economic, geo historic, physical and political features • analyse the land management system in special areas • identify planning issues for special areas • refer to the relevant acts, standards, programme and policies for special areas 	<ul style="list-style-type: none"> • Special Economic Zones: Issues, Laws and Procedures , K. R. Gupta (Ed), Atlantic Publishers, 2008 • Boarder Area Development Programme Guidelines, Ministry of Home Affairs, 2008 • Special Economic Zones in India, P. K. Manoj, Deep Publications Pvt. Ltd., New Delhi, 2001 • Development of Hill Areas, G.L. Dhobal, Concept Publishing, 2005 • Integrated Development of Hill Districts in India : Issues and Approaches, R.C. Gupta, Space Bookwell , 2000 • Environmental Problems of Coastal Areas in India, Vinod Sharma, Lindsay, Allen Lane, 2011 • Knowledge and the City, Francisco J. Carillo and Others, Routledge, 2014 • Environmental Act in India, Ruma Chatterjee, Oxford University Press, 2005 • Market Towns, Neil Powe and Others (Eds.), Routledge, 2014 • CRZ Regulations, 2011, MoEF, Govt. of India • The Cantonments Act, 2006, Ministry of Law & Justice, Govt. of India • URDPFI Guidelines (Volume I and II), Ministry of Urban Development, Government of India, 2015 				

SECOND YEAR : III SEMESTER

Subject Name	Subject Code	Mode of Instruction	Method of Evaluation	Number of Weekly Periods	Credits	Learning Domain
Urban Sustainability and Future City- Region	MPUR1303 B	Lecture and Assignments	Written	3	3	Knowledge
Learning Objectives	Subject Contents		Learning Outcome	Recommended Readings		
To inculcate necessary knowledge and skills to enable students: <ul style="list-style-type: none"> • Appreciate the relevance of city regions in sustainable development. • Understand the dichotomy of sprawl and compactness in view of sustainability • To gain insight into different future city region development strategies • Explain the various regional development policies and governance issues 	<p>Module 1: Introduction: the City-Region and Sustainability Emergence of 'City-Regions' beyond nation-states, Spatial and Functional considerations of the City-Region, Eco-Region and Econo-Regions, Intelligent City Regions and Sustainability, "Free Cities and Regions"- Patrick Geddes's Theory of Planning, Regional Urban ecosystem.</p> <p>Module 2: Dichotomy of Sprawl and Compactness in View of Urban Sustainability Ecology, Energy and Economy in Sprawl and Compact Development, Infrastructure and Services, Multimodal Transport Integration for Sustainability, Strategies for Sustainable City Region Development.</p> <p>Module 3: Role of Ecological Modernization and Mega City Management Policies Ecological Modernisation: A Basis for Regional Development, Governance by Green Taxes, Regional Development Agencies and Sustainable Development, Innovation Strategies, Land and Shelter in City Regions,</p> <p>Module 4: Mega-Urban Regions and World City Formation Globalisation, the Economic Crisis and Urban Policy Issues, New pattern of Foreign Direct Investment and its impact on city regions. Role of City Regions In the era of Globalisation, Global City and Global Capital Market, Post Industrial Production Sites, Social and Spatial Polarisation.</p> <p>Module 5: Governance of City Regions Governance and Planning of Mega-City Regions, City States, Experiences of some of the International Cities like Greater London, Tokyo, Seoul, Dhaka, Karachi, Toronto, Brazil, Bangkok</p>		Upon the completion, students would be able to: <ul style="list-style-type: none"> • Analyze the intricacies involved in the management of city regions. • Formulate Strategies for integrated development of city regions • Identify alternative policy options and evaluation of the policy for future city regions. 	<ul style="list-style-type: none"> • Governance of Megacities: Fractured Thinking, Fragmented Setup K.C. Sivaramakrishnan • Future Forms and Design for Sustainable Cities, (2005) Mike Jenks and Nicola Dempsey, Architectural Press An Imprint of Elsevier • The Global City : New York, London, Tokyo Saskia Sassen, Princeton University Press • Regions of cities: metropolitan governance and planning in Australia John Abbott • Governing India's Megacities Urban Multiplicities, EPW Ashima Sood • Gouldson, A and Murphy, J (1997) Ecological modernisation: restructuring industrial economies in M Jacobs (Ed.) Greening the Millennium? The New Politics of the Environment, Oxford, Blackwell, 74-86. • Benchmarking future city-regions beyond nation-states, Igor Calzada 		

SECOND YEAR : III SEMESTER						
Subject Name	Subject Code	Mode of Instruction	Method of Evaluation	Number of Weekly Periods	Credits	Learning Domain
Community Planning	MPUR1303 C	Lecture, Self Study Assignments	Written	3	3	Knowledge and Value
Learning Objectives	Subject Contents		Learning Outcome	Recommended Readings		
<p>The objective of the course is to inculcate the understanding of :</p> <ul style="list-style-type: none"> • Concepts of Participatory Decision Making and social motivation for the same in local planning context • Principles, theoretical perspectives & stages in Community Planning processes • Methods of participation and their application in planning process 	<p>Module 1: Community Planning: History and Social Motivation History of Community Involvement in Planning; Concept of Participatory Decision Making and Legal Background; Societal Change and Community Involvement; Context, Benefits and Challenges in Community Development.</p> <p>Module 2: Community Planning: Principles and Stages Principles of Community Planning and Design; Stakeholders in the making of a Community Plan; stages in the preparation of a Community Plan; Community Planning Orientations in Urban Planning; Coordination at different scales.</p> <p>Module 3: Community Planning: Theoretical Perspectives Community planning in the Theories of Planning and Design; Current views of Community Participation; Role of Storytelling in Community Engagement; role of Advocacy Planning; Community Group Dynamics.</p> <p>Module 4: Community Participation Methods in Planning Community Participation Methods, Strategic Planning – Charrette Process, PLA Participatory Action Research, Swot Analysis, Workshops, Participation Techniques, Community Action Planning, feedback, etc; Statutes for Community Participation</p> <p>Module 5: Case Studies on Community Based Development Cases of Community Plan Preparation addressing the role of Local Authorities in Community Planning Process, community participation, neighborhood planning & community based development.</p>	<p>Upon the completion, students would be able to:</p> <ul style="list-style-type: none"> • Explain principles, methods and processes involved in community planning & development • Engage in discourses on efficacy of different methods of community participation for community planning activities • Draw upon 'lessons learnt from case studies' to prepare methodology of community participation and community action planning 	<ul style="list-style-type: none"> • The Community Planning Handbook; Nick Wates; Earthscan from Routledge (Taylor & Francis Group). 2014 • Public Consultation and Community Involvement on Planning: A Twenty-first Century Guide; Penny Norton, Martin Hughes; Earthscan from Routledge (Taylor & Francis Group). 2018 • Making Community Design Work: A Guide for Planners; Umut Toker; American Planning Association, Planners Press. 2012 • Community Participation Methods in Design and Planning; Henry Sanoff; John Wiley & Sons, Inc. 2000 • The Handbook of Community Safety, Gender and Violence Prevention: Practical Planning Tools; Carolyn Whitzman; Earthscan from Routledge. 2008 • Neighborhood Planning and Community-Based Development: The Potential and Grassroots Action; William Peterman; Sage Publications, 2000 • Low Impact Living: A Field Guide to Ecological, Affordable Community Building; Paul Chatterton; Earthscan from Routledge (Taylor & Francis Group), 2015 			

Annexure-III (b)

SECOND YEAR : III SEMESTER

Subject Name	Subject Code	Mode of Instruction	Method of Evaluation	Number of Weekly Periods	Credits	Learning Domain
Project Planning, Appraisal and Management	MPUR1304	Theory and Practical	Written	3	3	Knowledge and skill
Learning Objectives	Subject Contents		Learning Outcome			
<p>The objective of the course is to inculcate the understanding of and skills to enable students to:</p> <ul style="list-style-type: none"> • explain the project formulation process • underline the importance of project management • explain the process and constraint in formulating a project • explain the various types of project feasibility • explain the project planning process • appreciate the importance of project resource management 	<p>Module 1: Definition of Project and Project Management; Importance of Project Management; Stages of Project Life Cycle; Causes of Project Delay; Behavioural Aspects of Project Management; Role of Project Manager; Attributes of a Successful Project Manager</p> <p>Module 2: Introduction to Project Appraisal ; Types of Feasibility; Financial and Economic Appraisals; Ascertaining Project Costs and Benefits; Project Financial Appraisal Techniques – Payback Period, Benefit Cost Ratio, Net Present Value, Internal Rate of Return; Components of a Feasibility Study; Social Cost Benefit Analysis</p> <p>Module 3: Introduction to Project Planning Process of Project Planning: Project Planning during Investment Phase; Planning for Project Work (Work Breakdown Structure); Planning for Manpower and Organisation; Planning for Project Finance; Planning for Information System; Process of Project Formulation; Constraints in Project Formulation; Breakeven Analysis; Sensitivity Analysis ;Project Budgeting and Performance Budgeting</p> <p>Module 4: Project Scheduling and Monitoring Definition of Project Scheduling; Steps in Project Scheduling; Network Techniques in Project Scheduling; Activity on Arc/Node; Forward Pass and Backward Pass; Critical Path and Slack; CPM Simulation; PERT (Concept only); Gantt Chart (Concept only)</p> <p>Module 5: Project Monitoring and Evaluation Definition of Project Monitoring; Criteria for Decision Making; Parameters and Tools of Control; Use of Network Analysis in Project Monitoring; Analysis of Cost and Time; Reporting and Corrective Actions; Resource Management – Resource Loading and Resource Levelling; Project Reporting</p> <p>Types of Project Evaluation; Tools of Project Evaluation; Time Frame in Evaluation; Project Cash Flows – Elements of Cash Flow Stream; Principles of Cash Flow Estimation; Project Benefits; Sources of Funds – Disposition of Funds; Financial Closure</p>				<p>Upon the completion, students would be able to:</p> <ul style="list-style-type: none"> • list the steps in project formulation • carry out financial appraisal of a project through various methods • estimate the breakeven point • calculate CPI, SPI, PPI and cost overrun • carry out resource loading and resource levelling • estimate project cash flow • 	<ul style="list-style-type: none"> • Construction Project Management : Planning, Scheduling and Controlling, K.K. Chitkara, Tata Mc Graw Hill • Project Management, Clifford F Gray et all, Tata Mc Graw Hill • Construction Project Management, Kumar Neeraj Jha, Pearson Education • Project Management – FAQ, G.P. Sudhakar, Golgatia Publication • Project Management, Vinod M. Patel, Oxford Book Company • Project Management, S. Choudhury, Tata Mc Graw Hill • Project Management – A Managerial Approach, Samuel J. Mantel, Wiley India • Essentials of Project Management, Ramakrishna Kamaraja, Phi Learning • Project Management, R.C. Sinha, Alpha Publications • Projects: Planning, Analysis, Selection and Review, Prasanna Chandra, Tata Mc Graw Hill • Project Management for Business and Technology, John M Nicholas, Prentice Hall of India Pvt. Ltd. • Project Planning, Scheduling and Control, James P Lewis, Tata McGraw-Hill Publishing Co. Ltd.

SECOND YEAR : III SEMESTER		Subject Name	Subject Code	Mode of Instruction	Method of Evaluation	Number of Weekly Periods	Credits	Learning Domain
Learning Objectives	Subject Contents			Learning Outcome	Recommended Readings			Knowledge and Value
<p>The objective of the course is to inculcate the understanding of :</p> <ul style="list-style-type: none"> • Concepts of Land as an urban resource and its value in the planning process • Concepts of real estate management and valuation • Regulatory framework affecting land management and real estate development • Techniques of land management and real estate management used in the profession 	<p>Module 1: Economic Concepts of Land Introducing concepts of Land Economics; Evolution of Urban Land Use Planning; Economic basis of Land Use Planning; Urban Land Supply Dynamics; Land as a Saleable Commodity; Land as a Sustainable Resource</p> <p>Module 2: Theories of Land Markets Evolution of land market theories from classical to contemporary; Location Theories; Classical and Contemporary Theories; Application in Mono-centric Versus Polycentric Cities; Exceptions to the Theories; Cities without Land Markets;</p> <p>Module 3: Urban Land Management Global Urban Land Management Practices; Control of land by state and private sector; Regulatory Framework Affecting Land Supply; Methods of Urban Land Management; Best Practice Cases of Urban Land Management;</p> <p>Module 4: Real Estate and its Management Definition of Real Estate; Physical, Financial and Social Perspectives; Real Estate as a facilitator of Urban Development; Real Estate Demand Assessment and Supply Mapping; Demand – Supply Gap Analysis; Methods of Technical and Financial Feasibility Analysis of different Product and Project types; Pricing of Real Estate; Case examples;</p> <p>Module 5: Land and Real Estate Valuation Techniques of Financial viability analysis- IRR, NPV, Cost to Benefit ratio; Methods of valuation; Comparison method; residual method; Discounted Cash Flow Method; Rental methods of valuation; Rent capitalisation; Mortgages; land auctions; Cross Subsidization; Real Estate Financing;</p>	<p>Upon the completion, students would be able to:</p> <ul style="list-style-type: none"> • Apply principles of land management in urban development • Conduct real estate feasibility studies • Conduct land and real estate valuation studies • Choose appropriate methods of using real estate as tool of financing in varying urban contexts 	<ul style="list-style-type: none"> • Urban Economics, Arthur O'Sullivan, McGraw-Hill • Urban Economics and Real Estate Markets, Denise DiPasquale and William C. Wheaton, Prentice Hall • Urban Land Market and Land Price Change: A Study in the Third World Context, Amitabh Kundu, Ashgate Publishing Company. • Economics, Real Estate and the Supply of Land, Alan Evans, Wiley and Blackwell • Analyzing Land Readjustment: Economics, Law and Collective Action, Hong, Yu-Hung and Barrie Needham, Lincoln Institute of Land Policy • Urban Land Economics, Jack Harvey, Palgrave MacMillan • Urban Land Economics and Public Policy, Paul N. Balchin, Gregory H. Bull and Jeffrey L. Kieve, Palgrave MacMillan • Real Estate Finance: Theory & Practice, Terrence M. Clauert and G. Stacy Sirmans, Cengage Learning • Urban Land Policy and Public-Private Partnership for Real Estate and Infrastructure Projects, A. K. Jain, Readworthy • The Modern Economics of Housing : A Guide to Theory and Policy for Finance and Real Estate 					

Annexure-III (b)

SECOND YEAR : II SEMESTER		Subject Name	Subject Code	Mode of Instruction	Method of Evaluation	Number of Weekly Periods	Credits	Learning Domain
Pre-thesis Research Design	Learning Objectives	MPUR1306	Lecture, Self Study Assignments	Viva Voce		3	3	Knowledge and Value
The objective of the course is to: <ul style="list-style-type: none"> Initiate the process of literature review related to frontiers of research in Spatial context. To explore various methods of conducting research and forms of research design To explores different tools & techniques for qualitative and quantitative analysis Acquire report writing skills 	<p>Module 1: Identification of Domain of Thesis Identification of topic of interest having relevance to planning profession. Establishing a need for research in the chosen domain, preparing a bibliography / list of references.</p> <p>Module 2: Literature Review Review of books and journal articles and compilation of the same to establish the body of work existing in the selected area of work; Documentation of multiple view points, research methodologies, tools & techniques of analysis and arguments.</p> <p>Module 3: Selection of study area Selection of study area, identification of extent and spread of intervention; collection of data for preparation of base map and study area description, selection of other relevant case studies.</p> <p>Module 4: Finalising Topic & Establishing Research Methodology Preliminary opinion survey of stakeholders viz., decision makers, user groups, etc. on the topic selected and Development of research thrust; Application of the learnt research processes together with lessons learnt from literature review to the pre-thesis work for formulating a research topic, brief and methodology.</p> <p>Module 5: Finalising Tools & Techniques of Analysis Identification of data sources, Methods of data collection, tabulation and analysis; sample determination, selection of tools & techniques of quantitative and qualitative data analysis. Report structuring and Chapterisation.</p>	<p>Learning Outcome</p> <ul style="list-style-type: none"> Upon the completion, students would be able to: <ul style="list-style-type: none"> Seek out literature on a research topic from various online and printed academic/research databases Engage in logical dialogues and discourses based on past research Articulate responses to various authors, books and papers and move from argument to argument in a succinct and logical way to identify a research gap Select a research a research design and appropriate tools & techniques for data analysis Write and present a Research Proposal 	<p>Recommended Readings</p> <ul style="list-style-type: none"> Research Methods in Spatial Planning: A Case-Based Guide to Research Design, Elisabete Silva and Others (Ed.) Routledge, 2014 Research Methods in Urban and Regional Planning, Xinhao Wang and Rainer Hofe, Springer, 2008 Researching the City: A Guide for Students, Kevin Ward, Sage, 2014 Research Methods in the Social Sciences, B. Somkh and C. Lewin, Vistaar, 2009 Research Methods, John Adams and Others, Sage, 2012 Research Methodology: Methods and Techniques, D.R. Kapoor, Regal Publishers, 2013 Research Methods: The Basics, Nicholas Walliman, Routledge, 2015 Research methods and statistics by Sherri L. Jackson New Delhi Cengage Learning 2010 Evaluating research articles: from start to finish by Ellen R. Girden New Delhi Sage 2011 Introduction to research methods: a practical guide for anyone undertaking a research project by Catherine Dawson, New Delhi Viva Books 2010 Case study research: what, why and how? By Peter G. Swanson, New Delhi Sage 2012 Qualitative data analysis using a dialogical approach By Paul Sullivan New Delhi Sage 2012 Understanding and applying research design By Martin Lee Abbott, New Jersey John Wiley 2013 Research methodology and quantitative methods by Rao, G. Nageswara. Hyderabad BS Pub 2012 Research Methods: The Key Concepts By Michael Hammond and Jerry Wellington; Routledge; 2013 Methodological Thinking: Basic Principles of Social Research Design by Donileen R. Loseke; Sage: 2013 Research Methodology in the Built Environment: A Selection of Case Studies by Ahmed, Vian; Routledge: 201 Research Methodology: A Step-by-Step Guide for Beginners by Ranjit Kumar; Sage: 2014 Research Methods: Designing and Conducting Research with a Real-World Focus by Carrie A Picardi; Sage: 2014 					

Annexure-III (b)

**Scheme of Postgraduate Programme
Master of Planning (Urban and Regional Planning)
Second Year: Fourth Semester**

Subject Code	Subject	Second Year : Fourth Semester (URP)				Credits
		WCH	T	P	ESE Format	
MPUR1401	Thesis	0	21		VV	21
	Elective III	3	0	WR		3
MPUR1402	A. Collaborative and Co-production of services in Development B. Public Policy Analysis and Evaluation C. Politics and Planning					
MPUR1403	General Proficiency	0	0		VV	1
	Total	3	21			25

WCH- WEEKLY CONTACT HOURS ESE-END SEMESTER EXAMINATION VV-VIVA-VOCE WR-WRITTEN EXAM

Annexure-III (b)

SECOND YEAR : IV SEMESTER						
Subject Name	Subject Code	Mode of Instruction	Method of Evaluation	WCH	Credits	Learning Domain
Thesis	MPUR1401	Guided Research	Viva voce	22	22	Knowledge and Value
Learning Objectives	Subject Contents		Learning Outcome	Recommended Readings		
The objective of the course is to: <ul style="list-style-type: none"> • Develop independent critical thinking • To enhance the design/research abilities and apply the knowledge gained, skills developed and professionalism • Prepare independent report on the research work commenced during the semester • Acquire report writing skills 	Module 1: Refining of Methodology and Research Design Reconnaissance survey and checking of data availability; finding out the data gaps; Refining and Finalisation of Methodology and Research Design; questionnaire preparation and survey design. Module 2: Data Collection and Compilation Visit to the study area; meetings and discussion with relevant authorities and groups for collecting tangible and intangible information relevant for the proposed study; data collection; coding and data compilation; Module 3: Analysis and Discussion of Results Data analysis; Identifying Prospects and Concerns for the study area in the Domain of Research; Evaluating the Thrust Areas Module 4: Alternative Proposals and their Evaluation Alternative Scenario Building; Considering Alternative Possible Outcomes; 'What-if' or Simulation Analysis; Discussions on Proposals and their Evaluation. Module 5: Final Proposal Formulation Specific proposals specifically in spatial terms; Report structuring and Chapterisation;		Upon the completion, students would be able to: <ul style="list-style-type: none"> • Engage in logical dialogues and discourses based on past research • Articulate responses to various authors, books and papers and move from argument to argument in a succinct and logical way to identify a research gap • Select a research design and appropriate tools & techniques for data analysis • Conduct data analysis and analyze scenarios related to development • Formulate development related proposals or solutions • Write and present a Research Proposal 	<ul style="list-style-type: none"> • Research Methods in Spatial Planning: A Case-Based Guide to Research Design, Elisabete Silva and Others (Ed.) Routledge, 2014 • Research Methods in Urban and Regional Planning, Xinhao Wang and Rainer Hofe, Springer, 2008 • Researching the City: A Guide for Students, Kevin Ward, Sage, 2014 • Research Methods in the Social Sciences, B. Somesh and C. Lewin, Vistaar, 2009 • Research Methods, John Adams and Others, Sage, 2012 • Research Methodology: Methods and Techniques, D.R. Kapoor, Regal Publishers, 2013 • Research Methods: The Basics, Nicholas Walliman, Routledge, 2015 • Research methods and statistics by Sherri L. Jackson New Delhi Cengage Learning 2010 • Evaluating research articles: from start to finish by Ellen R. Gorden New Delhi Sage 2011 • Introduction to research methods: a practical guide for anyone undertaking a research project by Catherine Dawson; New Delhi Viva Books 2010 • Case study research: what, why and how? By Peter G. Swanson New Delhi Sage 2012 • Qualitative data analysis using a dialogical approach By Paul Sullivan New Delhi Sage 2012 • Understanding and applying research design By Martin Lee Abbott, New Jersey John Wiley 2013 • Research methodology and quantitative methods by Rao, G. Nageswara. Hyderabad BS Pub 2012 • Research Methods: The Key Concepts By Michael Hammond and Jerry Wellington; Routledge: 2013 • Methodological Thinking: Basic Principles of Social Research Design by Donileen R. Loseke; Sage: 2013 • Research Methodology in the Built Environment: A Selection of Case Studies by Ahmed, Vian; Routledge: 201 • Research Methodology: A Step-by-Step Guide for Beginners by Ranjit Kumar; Sage: 2014 • Research Methods: Designing and Conducting Research with a Real-World Focus by Carrie A Picardi; Sage: 2014 • How to write a master's thesis by Bui, Yvonne N. second edition Publisher: New Delhi Sage Publishing 2014 <p>Note: For each research topic, individual reference list/bibliography is required to be prepared. Contents Above is only for Research Methods.</p>		

SECOND YEAR : IV SEMESTER						
Subject Name	Subject Code	Mode of Instruction	Method of Evaluation	WCH	Credits	Learning Domain
Collaborative and Co-production of services in Development	MPUR1402 A	Lecture, Self Study Assignments	Written	2	2	Knowledge and Value
Learning Objectives	Subject Contents	To be developed	Learning Outcome	Recommended Readings		
The objective of the course is to inculcate the understanding of : •	Module 1: Module 2 : Module 3: Module 4: Module 5:	Upon the completion, students would be able to: •	Collaborative and Co-production of services in Development Or: PPP and Co-production of services in Development			

SECOND YEAR : IV SEMESTER						
Subject Name	Subject Code	Mode of Instruction	Method of Evaluation	WCH	Credits	Learning Domain
Public Policy Analysis and Evaluation	MPUR1402 B	Lecture, Self Study Assignments	Written	2	2	Knowledge and Value
Learning Objectives	Subject Contents		Learning Outcome	Recommended Readings		
The objective of the course is to inculcate the understanding of: • Various approaches for policy formulation, implementation and evaluation • Issues in policy analysis • Forces that influence the functioning of executive, legislature, judiciary, civil society, NGOs and administration. • The policies related to inclusive Sustainable Urban and Regional Development	Module 1: Policy Analysis Nature, Scope, Significance and Contextual Perspectives; Policy Making Approaches and Models: Power Approaches to Policy-Making, Institutional Approaches to Policy Analysis, Strategic Planning Approach for Improving Public Policy, Rational Approach and Simon's Rationality Model; Decision-Making Process and Techniques Module 2: Policy Monitoring and Evaluation Approaches and Techniques: Policy Monitoring and Evaluation; Policy Evaluation: Role, Process and Criteria; Policy Performance: Evaluating Impact Module 3: Policy-Making Process Structure of Power and Public Policy-Making Process; Power and Role of Non-Officials in Policy-Making; Policy-Making Power within the Executive; Intergovernmental Relations and Public Policy Issues Module 4: Public Policy Implementation Public Policy Implementation: Approaches and Models; Inter-Organizational Relations and Public Policy Implementation; Public Policy Delivery Agencies and Implementers; Public Policy Implementation: Gaps and Problems Module 5: Review of Policies International Agencies and Globalization of Policy Agendas; Critical Analysis of Making, Implementation and Monitoring of Policies: National Urban Sanitation Policy, National Urban Housing & Habitat Policy 2007, National Policy for Urban Street Vendors-2009, National Environmental Policy 2006, National Urban Transport Policy 2006, National Water Policy 2002 and 2012 National Urban Policy Framework 2018		Upon the completion, students would be able to: <ul style="list-style-type: none"> • List the steps in policy making • Distinguish between different approaches of policy making • Identify Forces that influence the Public Policy implementation • Review the National and International Policies related to inclusive sustainable urban and Regional Development 	<ul style="list-style-type: none"> • Urban Policy in Practice, Tim Blackman, Publisher: Routledge • Public Policy: Art and Craft of Policy Analysis, R. K. Sapru, PHI Learning Pvt. Ltd-New Delhi • Public Policy Analysis, William N. Dunn, Pearson Education • Public Policy, Analysis and Design, VK Agnihotri, Concept Publishing • Approaching Public Policy Analysis: An Introduction to Policy and Programme Research, Kent E. Portney, Prentice Hall- Gale • http://urbanindia.nic.in/policies/TransportPolicy.pdf • http://envfor.nic.in/nep/nep2006.html • http://urbanindia.nic.in/programme/uwss/NUSP.pdf • http://mhupa.gov.in/w_new/sug_npusv.pdf • http://wrmin.nic.in/writereaddata/linkimages/nwp20025617515534.pdf • http://mowr.gov.in/writereaddata/linkimages/DraftNWP2012_English9353289094.pdf 		

Annexure-III (b)

SECOND YEAR : IV SEMESTER		Mode of Instruction		Method of Evaluation	WCH	Credits	Learning Domain
Subject Name	Subject Code	Lecture, Self Study Assignments	Written		2	2	Knowledge and Value
Politics and Planning	MPUR1402 C						
Learning Objectives	Subject Contents : <i>To be developed</i>			Learning Outcome		Recommended Readings	
The objective of the course is to inculcate the understanding of :				Upon the completion, students would be able to:			
				<ul style="list-style-type: none"> • 			
	Module 1:						
	Module 2:						
	Module 3:						
	Module 4:						
	Module 5:						

SECOND YEAR : IV SEMESTER						
Subject Name	Subject Code	Mode of Instruction	Method of Evaluation	WCH	Credits	Learning Domain
General Proficiency	MPUR1403	Participation in co-curricular and extracurricular activities	Viva voce	0	1	Knowledge, Value and skills
Objective	Subject Contents			Outcome	Recommended Readings	
The objective of the course is to: • Encourage students to participate in co-curricular and extracurricular activities for overall personality development	<p>Activity type 1: Participation in Seminars, Workshops, Conferences and Short term/ online courses Participation in seminars / workshops / conferences, paper/ article presentation/ publications, participation in short-term courses or on-line courses as complimentary activity to the curriculum</p> <p>Activity type 2: Internship/ Training in professional Organisations Participate /work on project/s related to urban/ regional planning or any specialization such as infrastructure planning, environmental planning, transportation planning, real estate, housing etc. in a professional organisation as 'intern' or trainee during summer break</p> <p>Activity type 3: Community services & Physical Fitness: Participation in different sports activities at institute and at inter-institute level; Participation in institute / community services as an individual or as a group member</p> <p>Activity type 4: Activities that lead to soft-skill Development: Participation as team member / team leader in student activities; activities demonstrating effective verbal / written communication skills, ethics and inter-personal skills</p> <p>Activity type 5: Fine or Performing Arts Participation / Proficiency in Fine Arts/ Performing Arts (Dance, Drama, Music, Painting, Sketching, Art Appreciation, Creative Writing etc.)</p>			Evaluation of outcomes related to personality and professional development through co-curricular and extra-curricular activities		