

**PANDIT LAKHMI CHAND**  
**STATE UNIVERSITY OF PERFORMING AND VISUAL ARTS, ROHTAK**  
(A State University established under Haryana Act No. 24 of 2014)



**FACULTY OF URBAN PLANNING & ARCHITECTURE**  
**MASTER OF PLANNING (URBAN & REGIONAL)**  
**SCHEME OF EXAMINATION AND SYLLABUS**  
Programme Code: MURP  
Duration – 2 Years Full Time  
CHOICE BASED CREDIT SYSTEM  
ACADEMIC SESSION 2019-20 ONWARDS

# **SCHEME OF EXAMINATION**

	<b>Semester-I</b>	<b>Semester –II</b>	<b>Semester-III</b>	<b>Semester- IV</b>
<b>Core subjects (Studio +Laboratory)</b>	Planning Studio (Area Plan)	Planning Studio (Village/block level/Regional plan /RURBAN area )	Planning Studio (Action plan/ project/special Areas)	Planning Thesis
<b>Skills</b>	Remote sensing & GIS Lab	Advanced GIS	<ul style="list-style-type: none"> <li>• Research Methodology</li> <li>• Seminar on Emerging Planning Concerns</li> </ul>	
<b>Theory</b>	Planning Theory & Planning History	Regional Planning & Development	Climate change & Disaster Management	Professional Practice and Planning legislation
	Planning Techniques	Transport Planning and management	Urban Governance and Finance	
	Infrastructure Planning	Housing & Community Planning	Project Appraisal & Management	
	Environment and Ecology	Land economics and Real estate		
	Urban Sociology & Economics	Urban Heritage and Conservation		
	Demography Studies	Urban redevelopment		
<b>Electives</b>	Urban Design	Planning for tourism	<ul style="list-style-type: none"> <li>• Design for special areas</li> <li>• Inclusive Planning</li> </ul>	<ul style="list-style-type: none"> <li>• PPP in Urban Development</li> <li>• Public policy</li> </ul>
<b>Other</b>			Summer Practical Training (6 weeks)	

## SEMESTER-I

Paper Code	Course Category	Course Title	Course Credits	Internal Evaluation/ Sessional Marks	External Evaluation		Total Marks	Duration of Exam
					Portfolio Marks	Theory Marks		
MURP/101	CORE	Planning Studio (Area Plan, ODP)	12	90	210	-	300	-
MURP/102	CORE	Planning Theory	03	25	-	50	75	2 hrs.
MURP/103	DSE	Planning History	02	15	-	35	50	2 hrs.
MURP/104	DSE	Planning Techniques	03	25	-	50	75	2 hrs.
MURP/105	DSE	Infrastructure Planning	03	25	-	50	75	2 hrs.
MURP/106	DSE	Environment & Ecology	02	15	-	35	50	2 hrs.
MURP/107	SEC	Urban Sociology & Economics	03	75	-	-	75	
MURP/108	SEC	Demography Studies	02	50	-	-	50	
<b>List of Open Elective Courses for Master of Planning Students</b>								
M/OE/112	OE	Film Appreciation	02	15	-	35	50	2 hrs
M/OE/113	OE	Mural-I	02	15	35	-	50	2 hrs.
M/OE/114	OE	Design Thinking	02	15	-	35	50	2 hrs.
<b>Total</b>			<b>32</b>	<b>335</b>	<b>465</b>		<b>800</b>	

**Note: Students may choose 01 Course from the list of Open Elective Courses.**

## SEMESTER-II

Paper Code	Subject Category	Course Title	Course Credits	Internal Evaluation/ Sessional Marks	External Evaluation		Total Marks	Duration of Exam
					Portfolio Marks	Theory Marks		
MURP/201	CORE	Planning Studio (Village/block level / Regional Plan/ URBAN AREA)	12	90	210	-	300	
MURP/202	CORE	Regional Planning & Development	03	30	-	70	100	3 hrs.
MURP/203	DSE	Transport Planning and management	03	25	-	50	75	2 hrs.
MURP/204	DSE	Housing & Community Planning	02	15	-	25	50	2 hrs.
MURP/205	DSE	Land economics and Real estate	03	25	-	50	75	2 hrs.
MURP/206	DSE	Urban Heritage and Conservation	02	15	-	35	50	2 hrs.
MURP/207	SEC	Remote Sensing & GIS	03	50	-	-	50	
MURP/208	SEC	Urban redevelopment	02	50	-	-	50	
<b>List of Open Elective Courses for Master of Planning Students</b>								
M/OE/212	OE	Cinema of the World	02	15	-	35	50	2 hrs
M/OE/213	OE	Mural-II	02	15	35	-	50	
M/OE/214	OE	Design Philosophy and Critique	02	15	-	35	50	2 hrs
<b>Total</b>			<b>32</b>	<b>315</b>	<b>485</b>		<b>800</b>	

**Note: Students may choose any 01 Course from the list of Open Elective Courses.**

## SEMESTER-III

Paper Code	Subject Category	Course Title	Course Credits	Internal Evaluation/ Sessional Marks	External Evaluation		Total Marks	Duration of Exam
					Portfolio Marks	Theory Marks		
<b>MURP/301</b>	CORE	Planning Studio (Action plan/ project/special Areas)	12	90	210	-	300	
<b>MURP/302</b>	CORE	Climate Change & Disaster Management	04	30	-	70	100	3 hrs.
<b>MURP/303</b>	DSE	Urban Governance and Finance	03	25	-	50	75	2 hrs.
<b>MURP/304</b>	DSE	Project Appraisal & Management	03	25	-	50	75	2 hrs.
<b>MURP/305</b>	DSE	Seminar on Emerging Planning Concerns	03	75	-	-	75	
<b>MURP/306</b>	DSE	Research Methodology	03	75	-	-	75	
<b>MURP/307</b>	SEC	Summer Practical Training (6 weeks)	02	50	-	-	50	
<b>MURP/308</b>	SEC	<i>Elective -I</i> <ul style="list-style-type: none"> <li>• Inclusive Planning</li> <li>• Design for special areas</li> </ul>	02	50	-	-	50	
<b>Total</b>			<b>32</b>	<b>420</b>	<b>380</b>		<b>800</b>	

## SEMESTER-IV

<b>Paper Code</b>	<b>Course Category</b>	<b>Course Title</b>	<b>Course Credits</b>	<b>Sessional Marks</b>	<b>Portfolio Marks</b>	<b>Theory Marks</b>	<b>Total Marks</b>	<b>Duration of Exam</b>
MURP/401	CORE	Planning Thesis	26	195	455	-	650	
MURP/402	CORE	Professional Practice and Planning legislation	03	25	-	50	75	2 hrs.
MURP/403	DSE	<i>Elective -2</i> PPP in Urban Development Public policy	03	25	-	50	75	2 hrs.
<b>Total</b>			<b>32</b>	<b>245</b>	<b>455</b>	<b>100</b>	<b>800</b>	

# **SYLLABUS**



## SEMESTER-I

Paper Code	Course Category	Course Title	Course Credits	Internal Evaluation/ Sessional Marks	External Evaluation		Total Marks	Duration of Exam
					Portfolio Marks	Theory Marks		
MURP/101	CORE	Planning Studio (Area Plan, ODP)	12	90	210	-	300	-
MURP/102	CORE	Planning Theory	03	25	-	50	75	2 hrs.
MURP/103	DSE	Planning History	02	15	-	35	50	2 hrs.
MURP/104	DSE	Planning Techniques	03	25	-	50	75	2 hrs.
MURP/105	DSE	Infrastructure Planning	03	25	-	50	75	2 hrs.
MURP/106	DSE	Environment & Ecology	02	15	-	35	50	2 hrs.
MURP/107	SEC	Urban Sociology & Economics	03	75	-	-	75	
MURP/108	SEC	Demography Studies	02	50	-	-	50	
<b>List of Open Elective Courses for Master of Planning Students</b>								
M/OE/112	OE	Film Appreciation	02	15	-	35	50	2 hrs
M/OE/113	OE	Mural-I	02	15	35	-	50	2 hrs.
M/OE/114	OE	Design Thinking	02	15	-	35	50	2 hrs.
<b>Total</b>			<b>32</b>	<b>335</b>	<b>465</b>		<b>800</b>	

**Note: Students may choose 01 Course from the list of Open Elective Courses.**

## **Paper-1 : Planning Studio (Area Plan/ODP)**

**Paper Code: MURP/101**

**Course Credits : 12**

### **Course Objectives:**

- The objective of this exercise would be to learn various methods of surveying to collect different types of data and represent and interpret them to give meaningful observations on the planning and development of the area.

### **Course Content:**

Each student or group is required to prepare a site plan of an area. Area may be residential, commercial, industrial, institutional, parks and open spaces, transport nagar. The students are required to identify the features of aforesaid selected area and work out the compatibility of various uses with the help of norms and standards. They will further carry out the literature review with an emphasis of its applications in the selected site. The students should work out the constraints of the site and achieve the objective of healthy living environment.

Thrust of the exercise would be on:

- Understanding the zone in the context of the city.
- Mapping of Regional Networks and Linkages
- Preparation of Base Map of the area through primary surveys and updating secondary data
- Socio-economic profiling of the area through surveys
- Physical and Social infrastructure mapping
- Gap Analysis and issue identification
- Formulation of broad outlines of Intervention Strategies and Development Blueprint.

### **Suggested Readings:**

1. India. Ministry of Urban, Affairs and Employment. (2014).URDPFI Guidelines, Government of India, New Delhi.
2. Rafael Cuesta, Christine Sarris. Paola Signoretta, J. C Moughtin. (2012).Urban Design: Methods & Techniques. New York: Routledge.
3. Majid Hussein, (2002). Fundamentals of Physical. Geography, 2<sup>nd</sup>ed. New Delhi:Rawat Publications.
4. PartapRao, (1985). Urban Theory and Practice. New Delhi: CBS Publication
5. Planning Legislation like Acts, Policies, Schemes, Vision Documents

## Paper-2 : Planning Theory

Paper Code: MURP/102

Course Credits : 03

### Course Objectives:

- The objective of this course is to equip students with advanced concepts of Geoinformatics with special emphasis on applications in Urban and Regional Planning.

### Course Content:

#### Unit-1

Definitions of theory in general; Definitions of planning theory, Definition of paradigm and its various stages of development by Kuhn; Significance of planning theory; Espoused theories and theories in use

#### Unit-2

Classical Concepts of City Form- Concepts of Garden City, City Beautiful, Linear City and others. Contribution to Modern City Planning by Lewis Mumford, Patrick Geddes, Peter Hall, Jane Jacobs, Chadwick and others, Theories of Urban Structure and Land Use- Concentric Zone Theory, Sector Theory, Multiple Nuclei Theory, Land Use and Land Value Theory etc. Theories of Settlement Systems in Regional Context -Spatial Models of Location, Size and Spacing of Settlements; Rank Size Rule; Central Place Theory; Loschian Theory; Cumulative Causation Theory; Core Periphery Model; Growth Poles and Centres; Gravity Model; Classification of Settlements, Models of Planning: Pluralism in Planning; Systems. Approach to Planning: Rationalistic and Incremental Approaches, Mixed Scanning, Advocacy Planning and Action Planning, Equity Planning

#### Unit-3

Public interest and its forms; History and significance of public participation; Methods of public participation; Impediments to public participation and conditions for effective public participation; Public participation and empowerment; Participation, policy formulation and implementation, Sustainability and rationality in planning; Components of sustainable urban and regional development; Globalization, internationalization, modernism and postmodernism debate; Pragmatism in planning; Regime theory and urban politics

#### Unit-4

Compact city approach: concept, advantages and limitations; Forms of cities in developing world, Forms of cities in the developed world; Forms of cities in the former and present socialist countries, Need for evaluation; Inseparability of planning and evaluation; Planning theories and evaluation; Methods of evaluating development plans; Theories of implementation of planning policies and development plans

### Note:

- Detailed teaching programme to be made before the commencement of the semester and circulated to the students at the commencement of the semester.
  - Examiner will set seven questions in total, covering the whole syllabus. Students will have to attempt 4 Questions in all.
  - All the questions carry equal marks [12.5 X 4 = 50]
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**Suggested Readings:**

1. Classic Readings in Urban Planning. New York :McGraw-Hill.
2. Healey, P. Planning Theory. Pergamon Press
3. Allmendinger, Philip. Planning Theory. London: Palgrave MacMillan.
4. Brunn, S.D.et al.Cities of the World: World Regional Urban development.
5. Spiro, Kostof. City Assembled: The Elements of Urban form through History. London: Thames & Hudson.
6. Levy, John M. Contemporary Urban Planning. London: Longman.
7. Peter, Hall. Cities of Tomorrow: An Intellectual History of Urban Planning and Design in the Twentieth Century.
8. National Town and Country Planners Congress (Mysore). Urban and Regional Planning Since Independence : Retrospect and Prospect : Technical papers. New Delhi: India, Ministry of Urban Affairs and Employment.
9. Rao, M.P. Urban Planning : Theory and Practice. New Delhi: CBS Publishers.
10. Rachel, Weber et al. Oxford Handbook of Urban Planning, Oxford: Oxford University Press
11. Gallion, Arthur B. and Eisner, Simon. Urban Pattern: City Planning and Design, New Delhi: CBS Publishers.

## **Paper-3 : Planning History**

**Paper Code: MURP/103**

**Course Credits : 02**

### **Course Objectives:**

- To initiate the student to the historic growth and development of settlements across civilizations and the evolution of civic planning as a discipline through theories and concepts of modern planning thought. The course shall be delivered through theoretical inputs and seminar presentations by students on selected topics.

### **Course Content:**

The course would include the following broad areas of planning knowledge:

#### **Unit-1**

Place making in History from caves to agrarian society; the historical context of urbanization; Town Planning considerations (Site selection and planning process) in ancient India from ancient texts and treatises;

#### **Unit-2**

Classification of ancient Indian settlements Characteristics of cities and planning considerations in ancient classic civilizations: Greek urban civilization, Roman urban civilization, Egyptian urban civilization and Mesopotamian urban civilization;

#### **Unit-3**

Medieval Town Planning and renaissance in Europe: case studies; Industrial revolution and its impact on city planning in Europe Medieval Town Planning in India and influence of Indo-Sarsenic culture: (case studies: Fatehpur Sikri; Shahjahanabad); Post-medieval town planning: Sikh towns, Site selection and characteristics, case study- Amritsar; Principles of British Colonial settlement planning in India; Industrial Towns Movement in India, Case Study- Rourkela

#### **Unit-4**

Capital Cities in India: case study- Bhubaneswar; Town Improvement and City Beautiful Movements; Planning Thought: Ebenezer Howard- Concept of Garden City, Planning Philosophy of Patrick Geddes, Patrick Abercrombie- Planning Philosophy and surveys to be performed for planning, Sorya Y. Mata- Linear city, Tony Garnier- Concept of Industrial City, Planning concepts of Le Corbusier, Clarence Arthur Perry- Principles of Neighbourhood planning and Design, F.L. Wright- Broadacre City, New Towns in India: Chandigarh, Auroville.

### **Note:**

- Detailed teaching programme to be made before the commencement of the semester and circulated to the students at the commencement of the semester.
  - Examiner will set seven questions in total, covering the whole syllabus. Students will have to attempt 4 Questions in all.
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- All the questions carry equal marks
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**Suggested Readings:**

1. Hall, P. (2014). "Cities of Tomorrow: An Intellectual History of Urban Planning and Design Since 1880". Hoboken: John Wiley.
2. Fainstein, S. (2012). "Readings in Planning Theory", 3rd ed. Oxford: Blackwell Publishing.
3. Hall, P. (2002). "Cities of Tomorrow: An Intellectual History of Urban Planning and Design in the 21st Century". Oxford: Blackwell Publishing.
4. Ward, S. (2002). "Planning the Twentieth Century City", The Advanced Capitalist World. Chichester: John Wiley.
5. Hall, P. (1998). "Cities in Civilization; Culture, Technology and Urban Order". London: Weidenfield and Nicolson.
6. Stein, M. J. (1995). "Classic Readings in Urban Planning". New York: McGraw-Hill.
7. Nath, R. (1995). "Medieval Indian History and Architecture". New Delhi: APH Publishing.
8. Lynch, K. (1981). "Theory of Good City Form". London: Cambridge Publications.
9. Gallion, A. (1963). "The Urban pattern; City Planning and Design. New York: D. Van Nostrand.

## **Paper-4 : Planning Techniques**

**Paper Code: MURP/104**

**Course Credits : 03**

### **Course Objectives:**

- The objective of the course Planning Techniques is to introduce techniques used for planning at various stages from preliminary to advanced. As this is a subject from integrated course the techniques broadly used by all courses of specialization have been considered while designing this course.

### **Course Content:**

#### **Unit-1**

Planning definitions and concept, Categories of Planning (economic, social and physical) and their integration; Planning at different levels, Town as a physical, social, economic and functional entity, Town typology and their characteristics, Urbanization and Urban Growth, Identification of problems and priorities, Preparation of plans; Perspective Plan, Master Plan, Development Plan, Zonal Plans, Project Plans/Schemes.

#### **Unit-2**

City planning – meaning and significance; Dynamism in City planning process; Team approach in City and Regional Planning; Contemporary city, its nature and structure; City as an organism, physical entity, social entity and political entity; Principles of City planning; Planning approaches – need, importance, objectives, scope of Comprehensive Planning (Master plan, District plan and any other), Perspective Planning, Structure Planning, Action Area Planning, Advocacy Planning and Spatial Planning.

#### **Unit-3**

Concept of Regional Planning and development. Aims & Objectives of Regional planning, classification of regions, regionalization and delineation techniques for various types of regions, regional planning vis-vis National Five Year Plans, Regional economic activities such as primary, secondary, tertiary – factors governing & influencing the size, structure of these activities, Role of public participation in plan formulation and implementation.

#### **Unit-4**

Planning Surveys, Primary-Sampling techniques, interview schedules and questionnaire design, Secondary data-format and attributes of data in terms of its relevance, reliability and compatibility Data processing: Designing performa for computers, classification, coding & tabulation, editing and control of error, Data presentation techniques,

#### **Unit-5**

Site planning process; selection of site, site analysis, general principles and guidelines for plan preparation, Site Planning standards, Preparation of plans for residential, commercial, Institutional, recreational and industrial sites. Norms &Standards.

### **Note:**

- Detailed teaching programme to be made before the commencement of the semester and circulated to the students at the commencement of the semester.
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- Examiner will set seven questions in total, covering the whole syllabus. Students will have to attempt 4 Questions in all.
  - All the questions carry equal marks [12.5 X 4 = 50]
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**Suggested Readings:**

1. India, Ministry of Urban Affairs and Employment (2015). Urban and Regional Development Plans Formulation and Implementation Guidelines . New Delhi: TCPO.
2. Thooyavan, K.R. (2005). Human Settlements : A Planning Guide to Beginners. Chennai: MA Publication.
3. Ramchandran, R. Urbanisation and Urban Systems in India, Oxford: Oxford University Press.
4. Siddhartha, K. and Mukherjee, S. Cities Urbanisation and Urban Systems. Kisalaya Publications.
5. Glasson, J. Regional Planning, Great Britain: Open University Press.
6. Knowles, R. and Wareing, J. Economic and Social Geography Made Simple. New Delhi: Rupa.
7. Kulshrestha, S.K. (2006). Dictionary of Urban and Regional Planning. New Delhi: Kalpaz Publications.
8. Saini and Mahavir, (1985). Urban Development Planning Strategies and Techniques. Delhi: Central Electric Press.
9. Rangwala, S.C. (2005). Town Planning. Anand: Charotar Publication House.
10. Hussein, Majid (2002). Fundamentals of Physical Geography. 2<sup>nd</sup>ed. New Delhi: Rawat Publications.
11. Rao, Pratap (1985). Urban Theory and Practice. New Delhi: CBS Publishers.
12. Kruecreberg, Donald, A. (1974). Urban Planning Analysis Methods and Models.
13. Keeble, L. (1972). Principles and Practice of Town and Country Planning. London: The Estate Gazette.
14. Gallion and Eismer (1969). The Urban Patterns. New Delhi: Affiliated East–West Press.
15. Gupta, S. (1993). Research Methodology and Statistical Techniques. New Delhi: Deep & Deep.
16. Greed, Clara (2004). Introducing Planning: Introducing Planning. London: Continuum.
17. Kopardekar and Diwan (1994). Urban and Regional Planning: Principles, Practice and Law. Telegaon: S.H. Kopardekar.



# **Paper-5 : Infrastructure Planning**

**Paper Code: MURP/105**

**Course Credits :03**

## **Course Objectives:**

- The course would include one part on the design principles of transport planning and another on services and utility networks and facilities. The focus of the Utilities Planning course is on principles of design of utilities and services in urban and regional context and familiarising with Indian standards of design. The course will focus on acquainting students to latest technological innovations in utility services.

## **Course Content:**

### **Unit-1**

Role of Physical Planner in Planning of Utilities and Services Networks; Objectives of Utilities and Services Planning and Its Implications for Public Health and Environmental Protection; Familiarizing to CPHEEO Manual and Guidance

### **Unit-2**

Water Supply Systems and networks- Surface and Ground Water Sources, Quality and Quantity Requirements, Collection and Conveyance of Water; Water Requirement for Various Land Uses; Factors Affecting Water Demand; Calculation of Per Capita Requirement; Water Distribution Systems; Case Study Discussion on Innovative Methods and Successful Urban Water Supply System; Significance and Methods and Advantages of Water Harvesting System

### **Unit-3**

Storm Water Drainage Networks- Layout and Design of Storm Water System; General Considerations, Inlets, Self Cleansing Velocity, Non-Scouring Velocity, Physical Layout, Design Principles, Data Requirement; Principles of Design of Storm Water Drainage System

### **Unit-4**

Sanitation and Sewer System - Sewage Disposal Methods and their Advantages and Disadvantages; calculations of Quantity of Sewage; Principles of design of Sanitary Sewer System Network; Case Study of Innovative Approaches of Sewage Disposal in Urban Area; Low Cost Appropriate Technologies for Sanitation; Characteristics of Waste Water, Industrial Pollutants and their Effects

### **Unit-5**

Solid Waste Management - Elements of Solid Waste Management, Classification and Characteristics of Solid Wastes; On Site Collection, Storage, Transportation and Disposal of Solid Wastes; Processing and Treatment of Solid Wastes; Land Filling and Cost Aspects of Different Methods of Solid Waste Management; Solid Waste Management Issues in Indian Cities

### **Unit-6**

Power Supply – Sources of Electricity; Transmission, Distribution and Supply; Sustainable Energy Planning; Telecommunications – Introduction to Planning and Programming Approaches for

Telecommunication Infrastructure and Network Systems; Environmental, Social and Economic Impacts of Telecommunication Infrastructure, Fire Fighting Services - Planning for Fire Protection Services and Space Standards; Locational Criteria, Implications on Land Use and Density

**Note:**

- Detailed teaching programme to be made before the commencement of the semester and circulated to the students at the commencement of the semester.
- Examiner will set seven questions in total, covering the whole syllabus. Students will have to attempt 4 Questions in all.
- All the questions carry equal marks [12.5 X 4 = 50]

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**Suggested Readings:**

1. Peavy, Howard S. Environmental Engineering. New Delhi: Tata McGraw-Hill.
2. Morgan, C.S. Regulation and the Management of Public Utilities. Gale.
3. Garg, S.K. Water Supply Engineering. Khanna Publishers.
4. CPHEEO. Manual on Sewerage and Sewage Treatment. New Delhi: India, Ministry of Housing & Urban Development.
5. Urban Planning Manual: AILGS Reader
6. Krishana, Gopi; Sanoop, P. and Sasikumar, K. Solid Waste Management. PHI Learning.
7. Dewan, Sudarshan. Solid Waste Management. Discovery Publishing House.
8. Amani Omer, Lambert. Telecommunication Management Networks (TMN) Implementation. Academic Publishers.
9. Overton, Frank. Firefighting: Management and Techniques. Inkata.
10. Jain, Arun Kumar; Jain, Ashok Kumar and Punmia, B.C. Water Supply Engineering: Environmental Engineering – I. New Delhi: Laxmi Publications.
11. Kadiyali, L.R. Traffic Engineering and Transport Planning. Khanna Publications.
12. Papacostas, C.S. and Prevedouros, P.D. Transportation Engineering and Planning. New Delhi: PHI Learning.
13. Hutchinson, B.G. Principles of Urban Transport Systems Planning. New York: McGraw-Hill.
14. Pande, Anurag and Brian, Wolshon (2016). Traffic Engineering Handbook. 7<sup>th</sup>ed. New Delhi: Institute of Transportation Engineers.
15. Jain, A.K. Urban Transport: Planning and Management. New Delhi: APH Publishing.
16. CPHEEO, (2013). Manual of Water Supply in Treatment. New Delhi: India, Ministry of Housing & Urban Development.
17. Punmia, B.C. (2010). Waste Water Engineering. New Delhi: Laxmi Publications.
18. Mackenzie Davis, Water and Waste Water Engineering. New York : McGraw-Hill.
19. Davis, Mackenzie (2010). Water and Waste Water Engineering. New York: McGraw-Hill.
20. Birdie, G.S. and Birdie, J.S. (2002). Water supply and Sanitary Engineering. New Delhi: Dhanpat Rai.
21. CPHEEO (2000). Manual of Solid Waste Management System. New Delhi: India, Ministry of Housing & Urban Development.

## **Paper-6 : Environment and Ecology**

**Paper Code: MURP/106**

**Course Credits : 02**

### **Course Objectives:**

- The objective of this course is to initiate the students to a discreet understanding of the environment and the interactions and inter-relationships of all living organisms with the physical surroundings. All social, cultural and technological activities being carried by human beings have profound influence on the environment. This course will enable a thorough understanding of all these aspects.

### **Course Content:**

#### **Unit-1**

Man and Environment - Changing Perspectives in Man-Environment Relationship with Focus on Issues of Population, Urbanization, Resource Depletion and Pollution, UN/ International Conferences/ Conventions (Global /National issues), Environmental Concerns of human settlements, Components, structure and meaning of the urban and regional environment

#### **Unit-2**

Emerging Concepts: smart growth, clustered cities, ecological footprints, green development, sustainable cities and inclusive cities for sustainable livelihood; Environment and poverty links; Environment and Economy interaction: Kuznet curve, Green GDP, Carbon Trading, carbon sequencing, environmental accounting, and Green Budgeting.

#### **Unit-3**

Concept of Ecology; Fundamentals of Ecosystem—Its Structure and Function, Environmental Degradation (Environmental Concerns and Challenges) and Its Impact on Various Ecosystems Planning for Environmentally Sensitive Zones (Resources Availability, Settlements Pattern, Problems and Potentials, Regulating Mechanisms for Development)

#### **Unit-4**

Tools and Techniques for Environmental Planning and Management- Introduction to Environmental Impact Assessment, Strategic Environment Assessment and Environ

mental Management Plans, Environmental Risks in rural and urban areas, health and environmental links, sustainable growth, carrying capacity, optimum city, Environmental Impact Assessment: project specific, universal

#### **Unit-5**

Environmental Policies and Initiatives Including Policies, Strategies, Protocols, Treaties Sustainable Development (Concept and Methods), Role of various levels of governments in

environmental management, NGOs and other agencies in environmental management; Case studies from developing and developed countries; Political commitment and environmental policy; Local Agenda 21, MDGs, environmental standards; Civil Society around Environment Management.

**Note:**

- Detailed teaching programme to be made before the commencement of the semester and circulated to the students at the commencement of the semester.
  - Examiner will set seven questions in total, covering the whole syllabus. Students will have to attempt 4 Questions in all.
  - All the questions carry equal marks
- 

**Suggested Readings:**

1. Odum, E.P.; Barrett, G.W. and Brewer, R. Fundamentals of Ecology. Thomson Brooks,
2. Westman, W. Ecology. Impact Assessment and Environmental Planning. Hoboken: John Wiley.
3. Lein, James K. Integrated Environmental Planning. London: Blackwell Publishing.
4. AITP Reader on Ecology & Resource Development, AITP
5. Maitra, A.K. AITP Reading Material on Environmental Planning and Design. Delhi: SPA
6. Gadgil, M. and Guha, R. Ecology and Equity: The Use and Abuse of Nature in Contemporary India. New Delhi: Penguin.
7. Rambo, T. Environment and Development : The Place of Human Ecology in South Asian Studies Programme.
8. Bahuguna, S. Environment Crisis and Sustainable Development. Dehradun: Natraj Publishers.
9. Agarwal, S.K. and Garg, R.K.,ed. Environmental Issues and Researches in India. Himanshu Publications.
10. Divan, S. and Rosencranz, A. Environmental Law and Policy in India : Cases Materials and Statutes. Oxford: Oxford University Press.
11. Hardoy, J.E.; Mitlin, D. and Satterthwaite, D. Environmental Problems in Third World Cities. London: Earthscan.
12. Our Common Future: The World Commission
13. Peavy, Howard S. Environmental Engineering. New Delhi: Tata McGraw-Hill.
14. Bharucha, E. (2005).Textbook of Environmental Studies. Hyderabad : Universities Press.
15. Centre for Science and Environment (New Delhi). Down to Earth. New Delhi: Centre for Science and Environment.
16. Heywood, V.H. and Waston, R.T. (1995).Global Biodiversity Assessment. Delhi: Cambridge House.
17. Joseph, K. and Nagendran, R. (2004).Essentials of Environmental Studies. New Delhi: Pearson Education.
18. Kaushik, A. and Kaushik, C.P. (2004). Perspective in Environmental Studies. New Delhi: New Age International.
19. Rajagopalan, R. (2011).Environmental Studies: From Crisis to Cure. New Delhi: Oxford University Press.
20. Sharma, J. P.; Sharma. N.K. and Yadav, N.S. (2005).Comprehensive Environmental Studies. New Delhi: Laxmi Publications.
21. Sharma, P. D. (2009).Ecology and Environment. Meerut: Rastogi Publications.

22. Centre for Science and Environment(New Delhi).State of India's Environment 2018. New Delhi: Centre for Science and Environment.
23. Subramanian, V. (2002).Textbook in Environmental Sciences. New Delhi: Narosa Publishing House.

**Paper-7 : Urban Sociology and Economics**

**Course Objectives:**

- The objective of the course in Economics is to apprise students of the theoretical underpinnings in economics so as to enable them comprehend urban problems from the point of view of economic reasoning. The primary objective of the course in Urban Sociology is to train the students in the sociological study of life and human interaction. The course is so designed as to enable the students follow the sociological interpretations of the structures, processes, changes and problems of an urban area and by doing so providing inputs for planning and policy making.

**Course Content:**

**Unit 1**

Micro and Macroeconomics, Twin themes of Economics – scarcity and Efficiency; Market, function and equilibrium; Positive vs Normative Economics, Laws of demand and supply; Market demand and supply; Equilibrium in Market, Elasticity of Demand and Supply; Price, Income and Cross elasticity, Production and Cost; Total Cost, Marginal Cost, Average Cost, Revenue and Cost curves; Producers Surplus and Consumer Surplus, Markets and types of Market.

**Unit 2**

Resource Categories; Land and Returns to Land, Taxing land and Rents, Environmental Externalities; market inefficiency with externalities: Corrective Policies- Climate Change, Measurement of Economic Activities, Basic Economic Growth Models, and Human Development Index.

**Unit 3**

Introduction to Sociology and the birth of sociology, Sociology and its relation to planning; Sociological theories and concepts - Society, Community, Social Group, Culture and Sociological theories of Urbanization, Difference between urban and rural life style.

**Unit 4**

Urban Enclaves and Ghettos; Fear and disorder; Gentrification, Human Aspects of Urban Form; Ethnicities in urban Society, Migration and Adjustment, Disparities and Equal Opportunities- Gender, Race, Religion, Social, Urban conflict, Urban social movements and Urban Politics, Inclusion and Exclusion of various social groups- Overview, Definition, Elements, Concepts, Related issues.

**Unit 5**

Participatory Planning Principles, Planning Rights and Responsibilities; Planning and designing for differently-abled, elderly, children and pregnant women, etc.Exploring emerging Concepts and Monitoring systems.

**Suggested Readings:**

1. Samuelson, Paul A. Economics. New Delhi: Tata McGraw-Hill.
2. Salvatore, Dominick. Microeconomics. (Schaum's Outline Series). New York: McGraw-Hill.
3. Ray, N.C. Microeconomics. New Delhi: Macmillan India.
4. Sen, Anindya. Microeconomics. New Delhi: Oxford University Press.
5. Chrystal, Alec et al. Economics. New Delhi: Oxford University Press.
6. Witztum, Amos. Economics: An Analytical Introduction. New Delhi: Oxford University Press.
7. Deepashree. General Economics. New Delhi: Tata McGraw-Hill.
8. Omkar Nath, G. Economics: A Primer for India. Hyderabad: Orient Blackswan.
9. Giddens, Anthony. Sociology. Hoboken: John Wiley.
10. Macionis, John J. Sociology. New Delhi: Pearson Education.
11. Flanagan, William G. Urban Sociology : Images and Structure. New Hersey: Prentice Hall
12. Shannon, Thomas R. Urban Problems in Sociological Perspective. Waveland Press.
13. Simmel, Georg. Metropolis and Mental Life. New York: Free Press.
14. Gottdiener, M. Key Concepts in Urban Studies. London: Sage Publications.
15. Abrahm, M. F. and Morgan, J. H. Sociological Thought. New Delhi: Macmillan India.
16. Das, Veena. Oxford Companion to Sociology and Social Anthropology. Vol. 1-2. New Delhi: Oxford University Press.
17. Srinivas, M. N. Social Change in Modern India. New Delhi: Oxford University Press.
18. Guha, R. Subaltern Studies Reader. New Delhi: Oxford University Press.
19. Turner, Bryn et al. Sage Handbook of Sociology. New Delhi: Sage Publications.
20. Sen, Amartya and Nussbaum, M. Capability and Well-Being. London: Oxford Clarendon Press.
21. Singh, R.U. and Thakur, A.K. Inclusive Growth In India. New Delhi: Deep and Deep.
22. Robeyns, Ingrid, Sen's Capability Approach and Gender Inequality: Selecting Relevant Capabilities: Feminist Economics
23. Planning a Barrier Free Environment. India, Chief Commissioner for Persons with Disabilities.

# Paper-8 : Demographic Study

Paper Code: MURP/108

Course Credits : 02

## Course Objectives:

- The objective of the course on Demography is to provide the students with an understanding of basic concepts on demography. This course would make the students aware of the importance of population geography in economic development, the various theories that explain the growth of population in a country and demographic techniques applied.

## Course Content:

### Unit-1

Demographic variables: fertility, mortality, migration; Evolution of population study, contribution of Malthus; Mortality trends, biological and social factors and mortality gender, race, social structure, life style, social status, occupation etc; Measures of mortality-crude and age-specific death rates; infant mortality, adjusted or standardized death rates; Neonatal mortality rate; fertility trends, fertility and social and biological behaviour; Differential fertility, ethnic groups, socio-economical group mobility, location etc.; Measures of fertility, crude birth rate Age specific fertility rate; Total fertility rate, net reproduction rate

### Unit-2

Migration-causes and consequences of population movement; reasons and types of migration trends; Methods of measuring volumes of migration; Direct and indirect measures; Effect of migration of composition of population. Source of demographic data; Census of India in conducting census and its role as a data warehouse population structure and composition, age sex composition, sex ratio, dependency ratio, child woman ratio;

### Unit-3

Measures of age-sex structure, age-sex pyramid, population composition; Marital status, cast region, literacy level, etc; life table techniques; Techniques in preparing life table, abridged life table Population estimation, projection and population forecasting; basic cohorts survival model, inter regional cohorts survival model.

### Unit-4

A brief history of urbanization in India; Mughal and British influences of India cities; Post-independence urbanization, Urbanization process as influenced by socio-cultural, political, economic and administrative factors, Definition of urban centres, concepts of rural urban continuum and dichotomy; Census definition of urban places town, cities, town groups, urban agglomeration, standard urban area metropolis, megalopolis etc. functional classification of urban places.

### Unit-5

Settlement system, Census classification of settlements, primate city, rank size rule, urbanization, industrialization and urban development Push and pull factors; Migration trends and impacts on urban and rural development, Over view of world urbanization, National Urbanization policy, basic issues in urbanization policy; Role of national and state level policies; Five year plans, latest attempts at urbanization policy formulation in the country; Salient features of the report of the national commission of urbanization.



**Suggested Readings:**

1. Cox, Peter R. Demography. Cambridge: Cambridge University Press
2. Srivastava, S.C. et al. Studies in Demography. New Delhi: Anmol Publishers
3. Seraw, William J. Introduction to Applied Demography: Data Sources and Estimation Technique. London: Sage Publications.
4. National Institute of Urban Affairs (New Delhi). Patterns of Migration in the National Capital Region. New Delhi: National Institute of Urban Affairs.
5. Agarwal, S.N. India's Population Problems. New Delhi: Tata McGraw-Hill.
6. Bogue, D.J. Principles of Demography. Hoboken: John Wiley.
7. Choubey, P.K. Population Policy in India. New Delhi: Kanishka Publications.
8. Gulati, S.C. Econometric Study of a Metropolis. New Dehi: Sage Publications.
9. Majumdar, P.K. Fundamentals of Demography. New Delhi: Rawat Publishers.
10. Newell, Colin. Methods and Models in Demography. Guilford Publications.
11. Ramachandran, R. (2000). Urbanization and Urban System in India. New Delhi: Oxford University Press.
12. Sandhu, Ranvinder (2006). Urbanization in India : A Sociological Approach. New Delhi: Sage Publications.

## **Paper-9 : Urban Design (Open Elective)**

**Paper Code: M/OE/111**

**Course Credits : 02**

### **Course Objectives:**

- The course comprises of two components of Urban Design. The objective of this course is to acquaint student with the role of urban design and landscape planning in Urban and Regional Planning and equip them with appropriate methods and techniques.

### **Course Content:**

#### **Unit-1**

Scope and Objectives of Urban Design; Its Relation with Architecture and Urban Planning; Regional and City Level; Urban Design Terminology Modern Techniques ,

#### **Unit-2**

Methods and Emerging Approaches to Urban Design; Behavioural Issues in Urban Design; Principles of Urban Spatial Organization, Urban Spaces - Hierarchy and Nature, Sense of Enclosure, Isolation and Continuity, Skin and Perception;

#### **Unit-3**

Urban Massing in Built Form; Image Ability and Elements of Urban Design, Urban Design at Micro Level: Campus Planning, City Centres, Transportation Corridors etc.

### **Suggested Readings:**

1. McDonald, Elizabeth. Urban Design Reader. New York: Routledge.
2. Carmona, Mathew and Teisdell, Steve. Public Places Urban Spaces : Dimensions of Urban Design. London: Architectural Press.
3. Bartnett, Jonathan. Redesigning Cities: Principles, Practice, Implementation. New York: American Planning Association.
4. Bentley, Ian. Responsive Environments. London: Architectural Press.
5. Lynch, Kevin. Image of the City. Cambridge: MIT Press.
6. Spreiregen, Paul D. Urban Design: The Architecture of Towns & Cities. R.E. Krieger Pub.
7. Gibberd, Frederick. Town Design. London: Architectural Press.
8. Tibbalds, Francis. Making People Friendly Towns : Improving the Public Environment in Towns and Cities. London: E&V Spon Press.
9. Cullen, Gordon. Concise Townscape. London: Taylor and Francis.
10. Khilnani, Sunil. My Idea of India. Farrar Straus and Giroux.

## SEMESTER-II

Paper Code	Subject Category	Course Title	Course Credits	Internal Evaluation/ Sessional Marks	External Evaluation		Total Marks	Duration of Exam
					Portfolio Marks	Theory Marks		
MURP/201	CORE	Planning Studio (Village/block level / Regional Plan/ URBAN AREA)	12	90	210	-	300	
MURP/202	CORE	Regional Planning & Development	03	30	-	70	100	3 hrs.
MURP/203	DSE	Transport Planning and management	03	25	-	50	75	2 hrs.
MURP/204	DSE	Housing & Community Planning	02	15	-	25	50	2 hrs.
MURP/205	DSE	Land economics and Real estate	03	25	-	50	75	2 hrs.
MURP/206	DSE	Urban Heritage and Conservation	02	15	-	35	50	2 hrs.
MURP/207	SEC	Remote Sensing & GIS	03	50	-	-	50	
MURP/208	SEC	Urban redevelopment	02	50	-	-	50	
<b>List of Open Elective Courses for Master of Planning Students</b>								
M/OE/212	OE	Cinema of the World	02	15	-	35	50	2 hrs
M/OE/213	OE	Mural-II	02	15	35	-	50	
M/OE/214	OE	Design Philosophy and Critique	02	15	-	35	50	2 hrs
<b>Total</b>			<b>32</b>	<b>315</b>	<b>485</b>		<b>800</b>	

**Note: Students may choose any 01 Course from the list of Open Elective Courses.**

**Paper-1 : Planning Studio (Village/Block/Regional Plan/Urban Area)**

**Course Objectives:**

- The studio is designed to expose the students to issues of planning of particular area and equip them with knowledge and techniques to enable them to analyse existing situations and develop logical decision making processes to address the complex overlays of conceptualisation, implementation and finance.

**Course Content:**

Class will be divided into different groups according to the scope of exercise. The studio is designed to analyse its issues and develop spatial plans with thrust on critical sectors. It focuses on the preparation of integrated development plan for a selected area analysing all aspects of physical planning including socio-economic factors and physical infrastructure and also formulation of methods of implementation and projectisation.

Thrust of the exercise would be on:

- Identification of an area
- Identification and Formulation of Planning Objectives for the project
- Survey of the study area. Data collection through primary and secondary surveys
- Analyses and presentation of data and information
- Review of Planning Objectives post data analysis; Redefining objectives
- Planning for urban area and its region (structure plan / development plan) with emphasis on: Land use, transportation networks and Infrastructure networks
- Preparation of Detailed Project Report (case specific)
- Identification and Detailing of Action Area, Local Area plans or Project Plans (case specific)
- Plan Implementation strategies: Stake holder participation, project funding options
- Implementation strategies including urban governance and management issues

**Suggested Readings:**

1. India, Ministry of Urban Affairs and Development (2014).URDPFI Guidelines. New Delhi: India, Ministry of Urban Affairs and Development.
2. Cuesta, Rafael ;Sarris, Christine; Signoretta, Paola and Moughtin, J.C. (2012).Urban Design: Methods and Techniques. New York: Routledge.
3. Rangwala, S.C. (2005). Town Planning. Anand: Charotar Publication House..
4. Hussein, Majid(2002).Fundamentals of Physical. Geography.2<sup>nd</sup>ed. New Delhi: Rawat Publications.
5. Rao, A.P. (1985).Urban Theory and Practice.New Delhi: CBS Publication.
6. Lall, Somik (2013) Planning, connecting and financing cities. Washington DC: World Bank.
7. Helms, G, (2012).Towards safe city centres: remaking the spaces of an old industrial city. Aldershot: Ashgate.
8. Campbell, T. (2012).Beyond smart cities: how cities network, learn and innovate. New York: Earthscan.
9. Venugopal, R.A. (2010).State of Urban services in Indian cities. New Delhi: Oxford University Press.
10. Latham, A. (2009).Key concepts in Urban Geography. London: Sage Publications.



## **Paper-2 : Regional Planning and Development**

**Paper Code :MURP/202**

**Course Credits : 03**

### **Course Objectives:**

- The course attempts to understand the theoretical basis for various concepts and analytical tools of Regional Planning and learn the practice of regional planning in the Indian context. Elements of settlement system in the regional context are also incorporated in this course.

### **Course Content:**

#### **Unit-1**

Concept of Region: Region Types and Regionalization; Concept of Regional Planning: Nature, Objectives, Levels and Aims, Elements of Settlement System: Function, Spacing, Linkage, Settlement Pattern and Factors Responsible Thereof; Potentials and Centrality of Settlements  
Regional Inequalities – Growth, Density and Spatial Inequalities of Population Distribution, Spatial Patterns and Characteristics of Occupational Types; Regional Planning Policies and Its Relevance

#### **Unit-2**

Introduction to Economic and Regional Growth Processes: Some Approaches of Rostow, Hirschman, Myrdal, Friedman, Haggerstand; Concept of Growth Centres, Growth Pole, Service Centre and Agro-Politan District and their Application in India

#### **Unit-3**

Regional Development Strategies: Centralized and Decentralized; Regional Planning Process: Location of New Regional Economic Activities; Tools and Techniques of Regional Analysis; Metropolitan Regions- : Concept of Degree of Primacy, Area of Influence, Service Area; City Regions and Delineation Techniques; Centralization and Decentralization Processes; Concepts of Ring and Satellite Towns, Counter-Magnets; Forms and Concepts for Metropolitan Planning and Development

#### **Unit-4**

District Planning Process: Identification of Plan Objectives; Collection, Classification and Analysis of Data; Norms and Standards for District Planning; Components of District Planning in the Context of 73rd CAA, 1992, Planning Process Under District Planning Committee, Metropolitan Planning Committee; Plan Implementation: Five Year Plans and Rural Development; Planning Process, Policies and Programmes at National, State, Regional and District Levels; Planning, Development, Implementing and Monitoring Organizations and Agencies: National and State

#### **Unit-5**

Concepts of Rural Area and Rural Development; Scope of Rural Development; Causes of Rural Backwardness; Historical Evolution of Rural Development and Rural Settlement Pattern in

Indian Context; Economic Issues of Rural Development - Differentiating Economic Growth and Economic Development; Rural Jobs and Income Sources; Rural Economic Policy, Infrastructure and Plan Implementation; Tools and Constraints in the Implementation of Plans in Terms of Administration; Schemes, Programmes, Policies for development of regions, districts, villages and cities; Selected Case Studies in Indian Context.

**Note:**

- Detailed teaching programme to be made before the commencement of the semester and circulated to the students at the commencement of the semester.
  - Examiner will set seven questions in total, covering the whole syllabus. Students will have to attempt 4 Questions in all.
  - All the questions carry equal marks [14\*5 = 50]
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**Suggested Readings:**

1. Misra, R.P. Regional Planning : Concepts, Techniques, Policies and Case Studies. New Delhi
2. Misra, R.P. Regional Development Planning in India. New Delhi: Vikas Publishing House.
3. Qaiyum, A. Regional Planning and Development. New Delhi: ITPI,
4. Rangaswamy, S. Regional Planning and Development. Madurai
5. Glasson, John. Introduction to Regional Planning : Concept, Theory and Practice.
6. India, Ministry of Rural Development, Department of Land Resource. Desert Development Programme, New Delhi: India, Ministry of Rural Development, Department of Land Resource.
7. Yadav, H.S. et al. Small and Medium Towns and Their Role in Regional Development. New Delhi: Gyan Publishing House.
8. National Institute of Urban Affairs (New Delhi). Role of Intermediate Towns in Regional Development : A Case Study. New Delhi: National Institute of Urban Affairs.
9. Pandey, K.K. Planning Development for Metropolitan Region, New Delhi: Indian Institute of Public Administration.
10. Jain, S.C. Rural Development.
11. Kumar, B. Das. Rural Development through Decentralization.
12. Venkata Reddy, K. Rural Development in India Poverty and Development.
13. Katar Singh. Rural Development: Principles, Policies and Management. New Delhi: Sage Publications.
14. Singh, H.B. Readings Material on Village Planning and Rural Development. New Delhi: ITPI.
15. Misra, R.P. District Planning: A Handbook. New Delhi: Concept Publishing House.
16. Chand, Mahesh and Puri, V.K. (1983). Regional Planning in India. New Delhi: Allied Publications.
17. Aggarwal, S.K., (2007). Regional Development and Planning in India. New Delhi: Concept Publishing.
18. Shekhar, Sudhanshu, (2004). Regional Planning in India. 2 Vol. New Delhi: Anmol Publications.
19. Roy Chaudhari, Jayasri (2001). Introduction to Development and Regional Planning. Hyderabad: Orient Longman.
20. Shukla, Amitabh, (2000). Regional Planning and Sustainability Development. New Delhi: Kanishka Publisher.

## **Paper-3 : Transport Planning and Management**

**Paper Code : MURP/203**

**Course Credits : 03**

### **Course Objectives:**

- The basic objective of this course is to introduce to the students of planning with the integration of transportation planning and its interface of land use planning. Another objective is to ensure that students have a sound understanding of the key issues affecting the planning, management and financing of public transport in developed and developing countries.

### **Course Content:**

#### **Unit-1**

Understanding Sustainable Development and Sustainable Transport; Land-Use and Transport Planning – Key Relationships; Land Use Transport Integration Models, Transport and its Relationships with the Economy, Environment and Social Progress; Accessibility Measures, Indicators of Progress, Frameworks of Assessment, Development Control and Travel Planning

#### **Unit-2**

Transportation Planning Process - Area Delineation, Zoning (TAZ); Four Stage Planning Process: Trip Generation, Trip Distribution, Trip Assignment and Modal Split, Traffic Management- Signal design; Phasing and Time cycles; Principles of one way system design, Pedestrianisation and non-motorised transportation- Issues, policies and case studies; Towards more inclusive cities; Comprehensive Mobility Plan

#### **Unit-3**

Introduction to External Cost of Urban Transportation: Issues, Level of Service and Transport Pricing, Congestion Pricing, Policy Issues, Emission Standards and Energy Policy; National Urban Transport Policy 2006, Pricing and Revenue in Transport- Pricing; Revenue and Forecasting; Willingness to Pay;

#### **Unit-4**

Introduction to Freight Transport- differences from passenger transport; location choice of transport hubs in relation to regional distribution linkages, Components of Land use transport model, accessibility – concept, measures and quantification, types of land use transport model- Density saturation gradient method, Hansen's accessibility model, intervening opportunity model, Garin Lowry model; strategic land use transport model

#### **Unit-5**

Regional Transport Issues: Intercity Connectivity; Urban –Rural Linkages and Road Hierarchy; Road and Rail as Competing/Complementary Modes; Highway Standards in Indian Context.

### **Note:**

- Detailed teaching programme to be made before the commencement of the semester and



circulated to the students at the commencement of the semester.

- Examiner will set seven questions in total, covering the whole syllabus. Students will have to attempt 4 Questions in all.
  - All the questions carry equal marks [12.5 X 4 = 50]
- 

**Suggested Readings:**

1. Ortuzar, Juan De Dios and Willumsen, Luis G. (2011). Modelling Transport (2011), Hoboken: John Wiley.
2. Barra, Tomas De La. Integrated Land Use and Transport Modelling, Cambridge: Cambridge University Press.
3. Chan, Yupo. Location, Transport and Land Use: Modelling Spatial-Temporal Information. Berlin: Springer Verlag.
4. Cowie, Jonathan. Economics of Transport: A Theoretical and Applied Perspective. London: Routledge.
5. Papacostas, C.S. and Prevedouros, P.D. Transportation Engineering and Planning, New Delhi: PHI Learning.
6. JotinKhisty, C. and Lall, B. Kent. Transportation Engineering: An Introduction, New Delhi: PHI Learning.
7. Idris, Semiat. Public Transportation Improvement. Lambert Academic Publishing
8. Cowie, Jonathan. Economics of Transport: A Theoretical and Applied Perspective. London: Routledge.

## **Paper-4 : Housing and Community Planning**

**Paper Code : MURP/204**

**Course Credits : 02**

### **Course Objectives:**

The objective of the course Planning Techniques is to introduce techniques used for planning at various stages from preliminary to advanced. As this is a subject from integrated course the techniques broadly used by all courses of specialization have been considered while designing this course.

### **Course Content:**

#### **Unit-1**

Introduction to Housing- Housing and Urbanization; Significance of Housing in National Development Goals; Current Issues in Housing: Health and Safety Related Issues in Housing, Shift of Housing from Social Sector to Private Sector Participation, Housing Design - Housing Typology, Housing Layouts, Housing Density, Community Facilities, Public and Private Sector Housing Development, Social Aspects of Housing, Built Environment and Human Behavior, Housing Norms and Standards

#### **Unit-2**

Housing for the Poor- Issues in Slums and Squatter Settlements; Government Initiatives for Providing Housing, Housing Demand- Housing Need Assessment, Estimating and Forecasting Housing Requirements (Qualitatively and Quantitatively); Understanding Current Methods of Housing Demand Assessment, Affordable Housing- Household Affordability, Concept of Affordable Housing, Affordable Housing in India, Affordable Housing Policy 2009, Affordable Housing in Public Private Participation, Emerging thoughts

#### **Unit-3**

Housing Policy- Understanding Five Year Plans, National Housing Policy- Review, Policy Framework for Urban and Rural Housing, Comparative Policy Analysis Rental Housing in India: An Overview, Current Practices and Upcoming Initiatives.

#### **Unit-4**

Poverty and Informal Sector: Poverty and Poor Settlements – Definition, Dimensions, Deprivation, Measurement, Defining Parameters, Absolute and Relative Poverty; Magnitude of Problem; Concern for Poverty; Spontaneous Growth of Settlements; Perspective of Slums and Squatters; Functions in Urban Context; Squatter Formations by Illegal Occupation; Migratory Impulses and their Association with Growth of Informal Sector; Socio-Economic Deprivation

and Environmental Degradation; Development of Informal Sector; Role of Informal Sector in Housing Stock, Economy, Commercial Activities, Etc.; Implications in Physical Planning

### Unit-5

Informal Sector Housing and Basic Needs - Lack of Essential Infrastructure; Poor Condition of Existing Services; Identification of Basic Needs; Provision for Various Target Groups; Standards for Basic Needs; Investment for Housing; Essential Components; Ownership and Tenure Security; Service Delivery - Gaps in Existing Institutional Systems of Delivery.

#### Note:

- Detailed teaching programme to be made before the commencement of the semester and circulated to the students at the commencement of the semester.
  - Examiner will set seven questions in total, covering the whole syllabus. Students will have to attempt 4 Questions in all.
  - All the questions carry equal marks
- 

#### Suggested Readings:

1. Gandotra, V.; Shukul, M.; Jaju, N. and Jaiswal, N. Housing : Changing Needs and New Directions. Authors Press.
2. Pugh, Cedric. Housing and Urbanisation: A study of India. New Delhi: Sage Publications.
3. Sarkar, P.K. Housing Laws in India: Problems and Remedies. Eastern Law House.
4. India, Ministry of Urban Affairs and Development. National Housing Policy. New Delhi: India, Ministry of Urban Affairs and Development.
5. Poulouse, K. Thomas. Reading Material on Housing. New Delhi: ITPI.
6. Lund, Brain. Understanding Housing Policy. London: Policy Press.
7. Dwivedi, Rishi Muni. Urban Development and Housing in India: 1947 to 2007. New Delhi: New Century Publications.
8. Housing Policies and Related Acts and Schemes of Government of India
9. Durand-Lasserve, Royston L. Holding Their Ground: Secure Land Tenure for the Urban Poor in Developing Countries. London: Earthscan Publication.
10. Baken, Robert Jan. Plotting, Squatting, Public Purpose and Politics, Land Market Development, Low Income Housing and Public Intervention in India. King's SOAS Studies in Development Geography.
11. Neuwirth, Robert. Shadow Cities: A Billion Squatters, a New Urban World. New York: Taylor & Francis.
12. Payne, Geoffrey and Majale, Michael, Urban Housing Manual: Making Regulatory Frameworks Work for the Poor. London: Earthscan Publication.
13. (<http://mhupa.gov.in/ebook/index.html#features/5> ).
14. Aldrich, B. and Sandhu, R.S. (2015). Housing for the Urban Poor in Developing Countries. Jaipur: Rawat Publications.
15. Brito, O. and Singh, A. (2014). Understanding Urban Poverty in India. Jaipur: Rawat Publications.
16. Impact of Investments in the Housing Sector on GDP and Employment in the Indian Economy

17. National Council of Applied Economic Research (<https://www.google.co.in/#q=Impact+of+Investments+in+the+Housing+Sector+on+GDP+and+Employment+in+the+Indian+Economy>)
18. India, Planning Commission. Report of Expert Group to Recommend the Detailed Methodology for Identification of Families Living Below Poverty line in Urban Areas. New Delhi: India, Planning Commission, 2012.
19. India, Planning Commission, Working Group on Urban Poverty, Slums, and Service Delivery System, Steering Committee on Urbanization. Report. New Delhi: India, Planning Commission, 2011.
20. Jain, A.K. (2011). Informal City: Inclusive Growth for Poverty Alleviation. Delhi: Readworthy Publications.
21. Chattopadhyaya, S. (2009). New Essays on Inclusive Housing. New Delhi: Macmillan India.
22. Dwivedi, R.M. (2007). Urban Development and Housing in India. New Delhi: New Century Publication.
23. Kohli, V.K. (2007). Housing Finance Agencies in India. New Delhi: Deep & Deep.
24. Rangwala, S.C. (2005). Town Planning. Anand: Charotar Publication House.
25. Poulse, Thomas, K. (2002). Reading Material on Housing. New Delhi: Institute of Town Planners..
26. Bhole, V. (1998). Housing. New Delhi: Classical Publication Co.
27. Wadhwa, K. (1987). Role of Private Sector Housing. New Delhi: Dhanpat Rai.
28. Gupta, D. B. (1985). Urban Housing in India. Washington DC: World Bank.
29. Sharma, L.R., (1985). Low Cost Housing in Developing Countries. New Delhi.
30. Davis, S. (1978). Form of Housing. New York: D. Van Nostrand Reinhold.
31. Muth, F. (1969). Cities and Housing. London: University of Chicago Press.
32. Morris, R.N. (1965). Sociology of Housing. London: Alden Press.

## **Paper-5 : Land Economics and Real Estate**

**Paper Code : MURP/205**

**Course Credits : 03**

### **Course Objective:**

- One of the prime concerns of urban development is the issue of land availability. In addition to government policies on land, market forces guide and force development on different patterns based solely on the equilibrium of demand, supply and pricing. In India, since the liberalisation of the economy and housing being provided by the private sector, the dynamics of the housing industry have changed significantly. This course introduces students to the concept of land markets and development of cities with private developers with the interests of profit, as key players in the development process.

### **Course Content:**

#### **Unit-1**

Economic Concepts of Land; Objectives and Scope of Land Economics; Land Use and Land Values: Market Dynamics and Impact on Land Use Pattern; Land Use Restrictions Affecting Land Availability, Development of Land and Real Property Process - Cost of Development, Source of Finance, Economic Aspects of Land Policies at Various Levels of Decision Making; Private Ownership and Social Control of Land

#### **Unit-2**

Definition of Real Estate - Physical, Financial and Social Perspectives; Comparison of Real Estate to Other Investment Avenues; Real, Local, National and Global Factors Affecting Real Estate; Real Estate as Facilitator of Development, Concepts of Real Estate Analysis - Mapping Supply to Understand Markets; Demand Factors Affecting Real Estate Development, Demand-Supply Gap Analysis, Methods of Technical and Financial Feasibility Analysis for Different Product and Project Types

#### **Unit-3**

Valuation of Land and Property; Methods of Valuation: Comparison Method, Residual Method, Discounted Cash Flow Method, Transaction and Renting of Real Estate: Lease Deeds/ Sale Deeds, Sale Documents, Registration; Mortgage and Pledging, Real Estate Dynamics in India: Profiling of Metropolitan Cities, Tier I, Tier II And Tier III Cities; Changing Cycles of Real Estate Development

#### **Unit-4**

Emerging Areas of Real Estate Development: Diversification to Logistic Hubs, Industrial Parks, Hospitality Sector, Health and Education Sector by Private Players; Introduction to Financial Models, Divided cities- the concept of affordability and housing as against shelter as a basic requirement; towards inclusive cities.

**Note:**

- Detailed teaching programme to be made before the commencement of the semester and circulated to the students at the commencement of the semester.
  - Examiner will set seven questions in total, covering the whole syllabus. Students will have to attempt 4 Questions in all.
  - All the questions carry equal marks [12.5 X 4 = 50]
- 

**Suggested Readings:**

1. O'Sullivan, Arthur. Urban Economics. New York: McGraw-Hill.
2. Pasquale, Denise Di and Wheaton, William C. Urban Economics and Real Estate Markets. New York: Prentice Hall.
3. Kundu, Amitabh. Urban Land Market and Land Price Change: A Study in the Third World Context, Aldershot: Ashgate Publishing.
4. Evans, Alan. Economics, Real Estate and the Supply of Land. New York: Wiley and Blackwell.
5. Hong, Yu-Hung and Needham, Barrie. Analyzing Land Readjustment: Economics, Law and Collective Action. Lincoln Institute of Land Policy
6. Harvey, Jack. Urban Land Economics. New York: Palgrave Macmillan.
7. Balchin, Paul N.; Bull, Gregory H. and Kieve, Jeffrey L. Urban Land Economics and Public Policy. New York: Palgrave Macmillan.
8. Clauretje, Terrence M. and Sirmans, G. Stacy. Real Estate Finance: Theory & Practice. Cenage Learning.
9. Jain, A.K. Urban Land Policy and Public-Private Partnership for Real Estate and Infrastructure Projects. Readworthy
10. Modern Economics of Housing : A Guide to Theory and Policy for Finance and Real Estate

## **Paper-6 : Urban Heritage and Conservation**

**Paper Code : MURP/206**

**Course Credits : 02**

### **Course Objectives:**

- To introduce conservation techniques for different areas to students.

### **Course Content:**

#### **Unit-1**

Definition, importance of Urban Heritage and its relevance in urban planning; Basic concepts of redevelopment & renewal. Conservation, meaning, techniques and relevance in urban planning. Conservation Plan for Urban Areas, Surveys and Studies for Conservation Plan.

#### **Unit-2**

Concept of listed Buildings, Concept of Heritage zones, Preparation & Implementation of Conservation Plan, Integrating Conservation Plan with Master Plan; Integrating Tourism Plan of the City. Conservation movement; International Perspective, International Organizations, their role & functions; ICOMOS, ICCROM. World heritage sites; selection, criteria, listing, documentation and assessment

#### **Unit-3**

International Charters namely Venice Charter, Charter of the conservation of historic towns and urban areas. National perspective, National Organizations their role & functions Archeological Survey of India, IHCN, Indian National Trust for Art and Cultural Heritage (INTACH).

#### **Unit-4**

Legislation related to Conservation at national level & state of Punjab, Delhi Urban Arts Commission. Community participation in Conservation; Study of specific zoning regulation, building bye-laws and development controls for Conservation. Case studies of city level including Amritsar, Hyderabad, Ahmedabad.

### **Note:**

- Detailed teaching programme to be made before the commencement of the semester and circulated to the students at the commencement of the semester.
- Examiner will set seven questions in total, covering the whole syllabus. Students will have to attempt 4 Questions in all.
- All the questions carry equal marks

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### **Suggested Readings:**

1. Descamps, Françoise (2011). The conservation of historic cities and urban settlement initiative. Conservation Perspective. GCI Newsletter. 26( 2): 16-17.
2. Evans, Brian and McDonald, Frank, ed. (2011). Space, place, life, learning from place. London: Routledge.
3. Punhani, Varsha. (2011). Historic cities, now and then: Proceedings of the International Seminar on Sustainable Habitat. New Delhi: HUDCO.

4. Jokilehto, Jukka. (2007). International charters on urban conservation, some thoughts on the principals expressed in current international doctrine. *City & Time*. 3(3): 2.  
<[www.ct.cecibr.org/novo/revista/include/getdoc.php?id=494](http://www.ct.cecibr.org/novo/revista/include/getdoc.php?id=494)>
5. Ashworth, G.J. (2007). On townscapes, heritage and identities: Paper presented at Institute for Advanced Studies Colloquium on Urban-rural Flows and Boundaries. Lancaster University.<[www.lancs.ac.uk/ias/annualprogrammes/docs/Ashworth](http://www.lancs.ac.uk/ias/annualprogrammes/docs/Ashworth)>
6. Feilden, B.M. and Jokilehto, Jukka (1998). Management Guidelines for World Cultural Heritage Sites. Rome, ICCROM.
7. Meller, Helen. Patrick Geddes (1990). Social Evolutionist and City Planner. London: Routledge.
8. Feilden, B. M. (1989). Guidelines for Conservation: A Technical Manual. New Delhi.
9. Mynor, Charles (1989). Listed Buildings and Conservation Areas. London: Longman.
10. Dobby, Alan (1978). Conservation and Planning. London: Hutchinson.
11. Sperigen, Paul D. (1965). Urban Design: The architecture of Towns & Cities. New York: McGraw-Hill.
12. Lynch, K. (1960). The image of the City. Cambridge: MIT.



# Paper-7 : Remote Sensing and GIS

Paper Code : MURP/207

Course Credits : 03

## Course Objectives:

- The objective of this course is to equip students with advanced concepts of Geoinformatics with special emphasis on applications in Urban and Regional Planning.

## Course Content:

### Unit-1

Overview: Principles and Applications of Remote Sensing (RS); Geographic Information Systems (GIS) and Photogrammetry; Organisational Aspects for Planning; Systems, Nature, Hierarchy, Value and Type of Required Spatial Data; Raster and Vector Data Structures; Spatial Data Models; Geo-Database; Analysing Tools and Software; Global Navigation Satellite Systems; Electromagnetic Spectrum, Band Combination, Reflectance; Image Interpretation and Analysis

### Unit-2

Information Systems - Information Needs, Scales and Levels; Pre-Conditions for Using Planning Information Systems; Representing, Modelling and Impact Analysis of the Data; Structure Models; Query Measurement and Transformations; Summary Statistics and Inference; Terrain Modelling

### Unit-3

Data Creation and Checking - Base Maps and Thematic Maps; Mapping and Spatial Analysis; Linking of Attribute Data, Spatial Data Aggregation; Spatial Information, Database Creation; Geo-Coding and Data Accuracy, Topology Creation

### Unit-4

Topography and Landforms; Digital Change Detection; Suitability Analysis; Landuse / Landcover Analysis; Use of GIS Data Focusing on Urban and Regional Planning, Laboratory Exercises – in Selected Packages of Image Processing and GIS; Dynamic GIS; Integration of GIS and Digital Image Processing; Integration of GIS and GPS; Web Enabled GIS Applications

## Suggested Readings:

1. Gopi, Satheesh. Advanced Surveying: Total Station, GIS and Remote Sensing. New Delhi: Pearson Education.
2. Applied Remote Sensing in Urban Planning, Governance and Sustainability. New Delhi: Springer India.
3. Skidmore, Andrew et al. Environmental Modelling with GIS and Remote Sensing. New Delhi: CRC Press.
4. Longley, P.A. et al, Geographic Information Systems and Science. Hoboken: John Wiley.
5. Maguire, David J. et al. GIS, Spatial Analysis, and Modelling. ESRI Pres.

6. Bekalo, Mesfin T et al. Land Use Change Detection using GIS, Remote Sensing and Spatial Matrices. Lap Lambert Academic Publications
7. Mengist, Mezenzia. Lans Sustainability: Evaluation using GIS and Remote Sensing Technology. Vdm Verlag
8. Weng, Qihao. Remote Sensing and GIS Integration: Theories, Methods and Applications. New York: McGraw-Hill.
9. Bhatta, Basuddeb. Remote Sensing and GIS. Oxford: Oxford University Press.
10. Lillesand, Thomas M. et al, Remote Sensing and Image Interpretation. Hoboken: John Wiley.
11. Kang, Tsung Chang (2006). Introduction to Geographic Information System. New Delhi: Tata McGraw-Hill.
12. Sokhi, B.S. (1999). Fundamentals of Aerial Photography and Remote Sensing. 2<sup>nd</sup> ed. Singapore: John Wiley.
13. Ralphs, Martin P. and Wyatt, Peter (2003). GIS in Land and Property Management. New York: E&V SPON Press.
14. Easa, Said and Chan, Yupo. (2000). Urban Planning and Development Applications of GIS. American Society of Civil Engineers
15. ESRI. ESRI MAP Book (2015). California: ESRI Press.
16. Roger, F. Tomlinson (2009). Thinking about GIS: Geographic Information System Planning for Managers. California: ESRI Press.

# **Paper-8 : Urban Redevelopment**

**Paper Code : MURP/208**

**Course Credits : 02**

## **Course Objectives:**

This course introduces students to basic concepts in urban renewal. The course provides an understanding of the principal academic discourse relating to processes of urban renewal and change, and a critical awareness of theory relating to the process of urban renewal, and its application to specific practice settings and questions.

## **Course Content:**

### **Unit-1**

Changing Cities & Neighbourhoods; Broad Knowledge of the Concepts and Theories Relevant to the Study of Urban Redevelopment; Spatial Planning and Urban Policy (together with an understanding of the main trends in urban development in developing countries today), Policy Analysis for Urban Redevelopment; Introduction of Different Ways of Thinking about what Policy is and how it is formulated: 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

### **Unit-2**

Regenerating Cities: Strategies & Evaluation; An Overview of the Development, Delivery and Impact of Regeneration Strategies; The Challenges of Achieving Effective Regeneration in Indian Cities in the Context of Global Change and Competition and Experiences in South East Asian and East Asian Countries

### **Unit-3**

The Role of Public Sector Agencies; Area Based Redevelopment Initiatives; Property-Led, 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

### **Unit-4**

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, 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.

**Suggested Readings:**

1. Roberts and Sykes. Urban Regeneration Handbook. London: Sage Publications.
2. Adams, D. Urban Planning and Development Process in Renewal. London: UCL Press.
3. Diamond and Little. Management of Regeneration. London: Routledge.
4. Gibson, Michael. Introduction to Urban Renewal. New York: Hutchinson.
5. Coch, Chris. Urban Renewal: Theory and Practice. London: Macmillan.
6. Hutchinson, Ray. Gentrification and Urban Change. JAI Press.

## **Paper-9 : Planning for Tourism (Open Elective)**

**Paper Code :M/OE/211**

**Course Credits : 02**

### **Course Objectives:**

- To introduce the principles of planning for tourism in various tourism contexts and developing appropriate planning strategies and tools.

### **Course Content:**

#### **Unit-1**

Planning for Leisure and Tourism - Key Determinant; Characteristics of Tourism Sectors; Differences Between Leisure and Business Tourism, Types of Tourism: Cultural Tourism, Eco-Tourism, Heritage Tourism, Adventure Tourism, Religious Tourism, Leisure Destination Tourism; Characteristics of Each and Planning Implications

#### **Unit-2**

Social Factors Shaping Leisure; International Tourism Trends; Factors and Impact on National Tourism Markets, Regional Context of Tourism Locations, Circuit Identification and Destination Planning

#### **Unit-3**

Tourism Infrastructure- Definition and Classification; Tourism as a Burden on Local Infrastructure, Tourism and Economy- Impact on Livelihoods and Local Communities, Tourism Plans- Components, Time Frame, Actors, Cost and Revenue, Etc.

### **Suggested Readings:**

1. Gunn, Clare A. Tourism Planning: Basics, Concepts, Cases.
2. Pearce, D.G., ed. Contemporary Issues in Tourism Development. London: Routledge.
3. Girard, L.F., ed. Cultural Tourism and Sustainable Development.
4. Event Tourism: Critical Concept in Tourism.
5. Swarbook, John. Sustainable Tourism Management.
6. Mitchell, J. Tourism and Poverty Reduction: Pathways to Prosperity.
7. Harrison, David. Tourism and the Less Developed World: Issues and Case Studies.
8. Sharma, Manoj. Tourism Infrastructure Development: Sustainable Approach.
9. Yang, L. (2014). Ethnic tourism planning. Aldershot: Ashgate.
10. Mason, P. (2008). Tourism Impacts planning and management. London: Butterworth Heinemann.
11. Dixit, M. (2007). Tourism. Delhi: Royal Publishers.
12. Gupta, S.P. and Bhattacharya, K. (2002). Cultural tourism in India. New Delhi: D.K. Printers.
13. Pearce, D.G. and Butler, B. (1999). Contemporary issues in tourism development. London: Routledge.
14. Page, S.J. and Hall, C.M. (1998). The geography of tourism and recreation. London: Routledge.
15. Oki, M. (1998). Fairs and festivals. Tokyo: World Friendship Association.

## SEMESTER-III

Paper Code	Subject Category	Course Title	Course Credits	Internal Evaluation/ Sessional Marks	External Evaluation		Total Marks	Duration of Exam
					Portfolio Marks	Theory Marks		
MURP/301	CORE	Planning Studio (Action plan/ project/special Areas)	12	90	210	-	300	
MURP/302	CORE	Climate Change & Disaster Management	04	30	-	70	100	3 hrs.
MURP/303	DSE	Urban Governance and Finance	03	25	-	50	75	2 hrs.
MURP/304	DSE	Project Appraisal & Management	03	25	-	50	75	2 hrs.
MURP/305	DSE	Seminar on Emerging Planning Concerns	03	75	-	-	75	
MURP/306	DSE	Research Methodology	03	75	-	-	75	
MURP/307	SEC	Summer Practical Training (6 weeks)	02	50	-	-	50	
MURP/308	SEC	<i>Elective -I</i> <ul style="list-style-type: none"> <li>• Inclusive Planning</li> <li>• Design for special areas</li> </ul>	02	50	-	-	50	
<b>Total</b>			<b>32</b>	<b>420</b>	<b>380</b>		<b>800</b>	

## **Paper-1 : Planning Studio (Action Plan/ Projects/ Special Areas)**

**Paper Code : MURP/301**

**Course Credits : 12**

### **Course Objectives:**

- The studio is designed to expose the students to issues of urban planning and equip them with knowledge and techniques to enable them to analyse urban situations and develop logical decision making processes to address the complex overlays of conceptualisation, implementation and finance.

### **Course Content:**

Students shall be required to undertake the study and planning of special area. The exercise offers an opportunity to the students for learning the characteristics of the special areas, justifying its term as “special”. Special areas can be of natural and manmade planning and development attributes.

The focus shall revolve around the concepts, guidelines, considerations, issues and challenges for special areas. The pre-requisite for special areas, along with the financial, legal and administrative mechanisms need to be explored in the view of planning and development of the special areas. The study conducted and the plan prepared shall be submitted in the form of a detailed report illustrated with maps, charts, sketches, photographs etc. underlying the focus for special areas.

### **Suggested Readings:**

1. India, Ministry of Urban, Affairs and Employment. (2014).URDPFI Guidelines. New Delhi: India, Ministry of Urban, Affairs and Employment.
  2. Cuesta, Rafael; Sarris, Christine; Signoretta, Paola and Moughtin, J. C. (2012). Urban Design: Methods & Techniques. New York: .Routledge.
  3. Rangwala, S.C. (2005).Town Planning. Anand: Charotar Publication House.
  4. Hussein, Majid (2002).Fundamentals of Physical. Geography. 2<sup>nd</sup> ed. Jaipur: Rawat Publications.
  5. Rao, A.P. (1985). Urban Theory and Practice. New Delhi: CBS Publication.
  6. Lall, Somik (2013). Planning, connecting and financing cities. Washington DC: World Bank.
  7. Helms, G. (2012). Towards safe city centres: Remaking the spaces of an old industrial city. Aldeshot: Ashgate.
  8. Campbell, T. (2012).Beyond smart cities: how cities network, learn and innovate.New York: Earthscan.
  9. Venugopal, R.A. (2010). State of Urban services in Indian cities. New Delhi: Oxford University Press.
  10. Latham, A. (2009).Key concepts in Urban Geography. London: Sage Publication.
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## **Paper-2 : Climate Change and Disaster Management**

**Paper Code : MURP/302**

**Course Credits : 04**

### **Course Objectives:**

- The objective of this course is to initiate students with the issues of various types of natural and man-made Disasters and impart techniques of mitigation and management. This course will help to understand the phenomenon of climate change, its impact on areas and international discourses/ debates.

### **Course Content:**

#### **Unit-1**

Definitions, Meaning and Types of Disasters; Overview of Disasters across the World, Natural Disasters and Manmade Calamities- Statistics, Degree of Damage, Frequency of Occurrences and Other Historical Facts, Classification of Disasters in India by Predominant Types- Earthquake, Flood, Hurricanes, Fires Etc.

#### **Unit- 2**

Identification of Disaster prone areas; Disaster Vulnerability Mapping, Disaster Preparedness, Response and Post Disaster Recovery and Rehabilitation Measures; Risk Mitigation and Risk Transfer, Technology for Rebuilding of Disaster Affected Areas, Psychological Impact on Disaster Victims

#### **Unit-3**

Risk Mitigation and Risk Transfer, Recent Initiatives at International National and State Level; Kyoto Framework of Disaster Mitigation and Management; Disaster Management Policies and Act - National and States; Select Global Practices, Forecasting and Early Warning Systems for Various Types of Disasters; Communication and Information Technology in Disaster Management,

#### **Unit-4**

The scale of potential change, vulnerability of particular societies, sectors and ecosystems – environment – economic development conflicts – Momentum of the economic system producing greenhouse gases; industrial concentration and regional concentration of heat sinks and its impact on the city and rural areas. Introduction on economics of climate change: theoretical concepts and framework of analysis; Food security and regional development; Water availability; drought and flash floods; productivity changes and its impact.

#### **Unit-5**

Urbanisation and its impact on micro climates; urban heat islands – causes and effects; research on heat islands globally and in India, Changing agricultural pattern, productivity and security, industrial concentration, weather and micro climatic changes, funding climate change



prevention: market and non-market based approaches, role of institutional actors: Government, NGOs, Multilateral agencies and citizen groups.

**Note:**

- Detailed teaching programme to be made before the commencement of the semester and circulated to the students at the commencement of the semester.
- Examiner will set seven questions in total, covering the whole syllabus. Students will have to attempt 4 Questions in all.
- All the questions carry equal marks

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**Suggested Readings:**

1. Rasik, R. and Sinha, R. (2013). Earth system processes and disaster management, 2013. Berlin: Springer Verlag.
2. Singh, Tej (2006). Disaster Management Approaches and Strategies. New Delhi: Akanksha Publication House.
3. Edwards, B. (2005). Natural hazards. Cambridge: Cambridge University Press.
4. Sharma, R.K. and Sharma, G. ed. Natural disasters, 2005. New Delhi: APH Publishing.
5. Bhandani, R.K. (2005). An Overview on Natural & Manmade Disaster & their Reduction. New Delhi: CSIR.
6. National Disaster Act 2005.
7. Singh, S. (2003). Disaster Management in Hills. New Delhi: Concept Publication.
8. Goel, S.L. and Kumar, R. (2001). Disaster Management. New Delhi: Deep and Deep.
9. Gupta, M.C. (2001). Manuals on Natural Disaster Management in India. New Delhi: National Center for Disaster Management..
10. Sharma, V.K., ed. Action Plan for Earthquake. 1994.s
11. Pinkowski, J. Disaster Management Handbook. New York: CRC Press.
12. Phillips, Brenda D. Disaster Recovery. New York: CRC Press.
13. Garcia, Belen. Earthquake Architecture: New Construction Techniques for Earthquake Disaster Prevention. New York: Loft Publications.
14. Smith, K. and David, P. Environmental Hazards : Assessing Risk and Reducing Disaster. London: Routledge.
15. Rodriguez, H.; Quarantelli, E. and Dynes, R.R., ed. Handbook of Disaster Research. New York: Springer Science.
16. Organization for Economic Cooperation and Development. Cities and Climate Change. OECD, 2010.

## **Paper-3 : Urban Governance and Finance**

**Paper Code : MURP/303**

**Course Credits : 03**

### **Course Objectives:**

- The course intends to acquaint the students with the governance structure and fiscal and financial background of the local governments and tools and techniques to strengthen them. The course would include Constitutional Provision for Local Finance, Municipal Finance, Innovations in Local Resource mobilisation and Local Government fiscal regime.

### **Course Content:**

#### **Unit-1**

Democracy and Decentralisation: Evolution of Local Self Government: Democracy in Governance: Local Governance: Institutional Framework: Reinstatement of Panchayati Raj Institutions and Urban Governance Institutions: Constitutional Sanction; Salient Features of 73rd and 74th Constitutional Amendment Act, 1992;

#### **Unit-2**

Innovations in Local Governance: Indicators of Good Governance: Formulation of Governance Index; Citizens' Charter; Citizens' Participation in Urban Governance: Institutional and Legal Framework; Ward/Wards Committee; Nagar Raj Act: Constitution, Powers and Functions of Area Sabhas; Local Governance Reforms: Administrative Reforms in Local Governance: Inter Municipality and Municipality – CBO/NGO Partnership; Simplification of Procedures

#### **Unit-3**

Parastatal Agencies: Role of Improvement Trusts, Development Authorities, SEZs and Special Purpose Vehicles in Urban Management; Interagency Cooperation, Behavioural 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 (SFC); Centrally Sponsored Schemes related to Urban/Rural Physical Planning and related sectors

#### **Unit-4**

Municipal Finance: Plan and Non Plan Financing (Planning Commission and Finance Commission); Categorisation of Municipal Sources of Revenue: Internal Vs. External Revenue, Capital Vs. Revenue Receipt; Municipal Finance Assessment Framework; Municipal Finance: Paradigm Shift; Reforms in Municipal Finance, Town Planning Scheme

## Unit-5

PPP, Role of Financial Intermediaries, Municipal Bond, Pooled Finance, Local Government Fiscal Regime: Local Government Budget: Normal Budget, Performance Budget, Gender Budget (concept only); Salient Features of Fiscal Responsibility and Budget Management Act

### Note:

- Detailed teaching programme to be made before the commencement of the semester and circulated to the students at the commencement of the semester.
  - Examiner will set seven questions in total, covering the whole syllabus. Students will have to attempt 4 Questions in all.
  - All the questions carry equal marks [12.5 X 4 = 50]
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### Suggested Readings:

1. Basu, D.D. Constitution of India. New Delhi: S. Chand.
2. Democracy, Development and Decentralisation: Continuing Debates. New York: Taylor and Francis.
3. Mathur, O.P. India: The Challenges of Urban Governance New Delhi: National Institute of Public Finance and Policy.
4. Gopal, Niraja et al. Local Governance in India. New Delhi: Oxford University Press.
5. Baud, I.S.A. et al. New Forms of Urban Governance in India. London: Sage Publications.
6. Sivaramkrishnan, K.C. People's Participation in Urban Governance. New Delhi: CSS.
7. Rao, P.S.N. Urban Governance and Management: Indian Initiative. New Delhi: Kanishka Publishers .
8. Halder, Uday Kumar. Leadership and Team Building. New Delhi: Oxford University Press.
9. Bahl Roy, W. et al. Developing Countries. New Delhi: Oxford University Press .
10. Mundle, Sudipto. Public Finance: Policy Issues for India. New Delhi: Oxford University Press.
11. Bandopadhyay, D. et al. New Issues in Panchayati Raj. New Delhi: Concept Publishing.
12. De Mello. Fiscal Decentralisation and Governance: A Cross Country Analysis. Washington DC: IMF. IMF Working Paper (WP.01/171/2001)
13. Oommen, M.A..Fiscal Decentralisation to Local Government in India. Cambridge Scholars Publishers
14. Mohanty, P.K. et al. Municipal Finance in India: An Assessment. Mumbai: Reserve Bank of India .
15. Municipal Finance: A Handbook for Local Government Practitioners. Washington DC: World Bank.
16. Rangarajan, C. et al. Federalism and Fiscal Transfers in India. New Delhi: Oxford University Press.
17. Mathur, O.P. et al. Costs and Challenges of Local Urban Services: Evidence from Indian Cities. New Delhi: Oxford University Press.
18. Vithal and Sastry. Fiscal Federalism in India. New Delhi: Oxford University Press.
19. Wellman, Kath and Spiller, Marcus, ed. (2012).Urban Infrastructure: Finance and Management. London: Wiley Blackwell.
20. Sachdeva, Pardeep (2011). Local Government in India. New Delhi: Pearson Education.
21. Jain, A.K. (2010). Urban Planning and Governance. New Delhi: Bookwell India.
22. Yadav, Surya Narain and Baghel, Indu (2009). Good Governance: Issues, Challenges and Prospects. 2009. New Delhi: Global Vision Publishing house.
23. Sharma, Rashmi (2009). Local Government in India: Policy and Practice. Delhi: Salasar

Imaging Systems.

24. Chhikara, R.S. ed. (2009). Governance: Problems, prospects and perspectives. Gurgaon: Hope India Publications.
25. Peterson, George E. and Annez, Ptrocoa Clarke, ed..Financing Cities. 2007. New Delhi: Sage Publications.
26. Rao, P.S.N., ed. (2006). Urban Governance and Management. New Delhi: Kanishka Publishers.
27. Beall, Jo (2005). Funding Local Governance. Great Britain: ITDG Publishing.
28. Debroy, Bibek, ed. Governance. 2004. New Delhi: Academic Foundation.
29. Bhatia, H.L. (2003). Public Finance. New Delhi: Vikas Publishing House.

## **Paper-4 : Project Appraisal and Management**

**Paper Code : MURP/304**

**Course Credits : 03**

### **Course Objectives:**

- The objective of the course on Project Appraisal and Management is to train the students in managing a project right from its conception to evaluation.

### **Course Content:**

#### **Unit -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

#### **Unit -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

#### **Unit -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

#### **Unit -4**

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)

#### **Unit -5**

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, Types of Project Evaluation.

### **Note:**

- Detailed teaching programme to be made before the commencement of the semester and circulated to the students at the commencement of the semester.
  - Examiner will set seven questions in total, covering the whole syllabus. Students will have to attempt 4 Questions in all.
  - All the questions carry equal marks [12.5 X 4 = 50]
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**Suggested Readings:**

1. Chitkara, K.K. Construction Project Management : Planning, Scheduling and Controlling, New Delhi: Tata McGraw-Hill
2. Gray, Clifford F. et al. Project Management. New Delhi: Tata McGraw-Hill.
3. Jha, Neeraj Kumar. Construction Project Management. New Delhi: Pearson Education.
4. Sudhakar, G.P. Project Management. New Delhi: Goltatia Publication .
5. Patel, Vinod M. Project Management. New Delhi: Oxford Book Co.
6. Choudhury, S. Project Management. New Delhi: Tata McGraw-Hill.
7. Mantel, Samuel J., Project Management: A Managerial Approach. New Delhi: Wiley India.
8. Kamaraja, Ramakrishna. Essentials of Project Management. New Delhi: PHI Learning.
9. Sinha, R.C. Project Management, Alpha Publications.
10. Chandra, Prasanna. Projects: Planning, Analysis, Selection and Review. New Delhi: Tata McGraw-Hill.
11. Nicholas, John M. Project Management for Business and Technology. New Delhi: Prentice Hall of India.
12. Lewis, James P. Project Planning, Scheduling and Control. New Delhi: Tata McGraw-Hill.
13. Nagarajana, K. Project Management. 2014. New Delhi: Green Publishing House..
14. Project Management- A System Approach to Planning, Scheduling and Control. 2009. HarodKerzner.
15. Shaghil, M. and Mushtaqu, M.(1993). Project Formulation: Concept & Approach. Jaipur: Printwell.
16. Goel, B.B. (1987). Project Management: A development perspective. New Delhi: Deep and Deep.

## **Paper-5 : Seminar on Emerging Planning Concerns**

**Paper Code : MURP/305**

**Course Credits : 03**

### **Course Objectives:**

- To undertake work on contemporary topics of relevance to the planning profession. Students would be encouraged to select topics of relevance in contemporary context and undertake research on past initiatives and future possibilities in the area. The work would include literature review of previous initiatives in the area of research, tools and techniques developed, survey of stake holders' and expert opinions and reporting of findings in a technical report format.

### **Course Content:**

- Identification of topic of interest having relevance to planning profession.
- Book reviews and journal article reviews to establish the body of work existing in the selected area of work • Exposure to multiple view points and colloquial arguments by the stakeholders, decision makers, urban managers, advocates, technocrats, user groups, etc. on the same topic.
- Identification of key issues related to the area of work.
- Development of future possibilities and scenarios to enrich the existing body of work.
- The student will be required to make three seminar presentations and submit a report at the end of the semester.

## **Paper-6 :Research Methodology**

**Paper Code : MURP/306**

**Course Credits : 03**

### **Course Objectives:**

- To learn report writing and analyzing research paper at various stages of planning.

### **Course Content:**

#### **Unit-1**

Definition and needs of Research, Scientific research and methods, System approach of research, Levels of research: micro and macro; Major steps in the conduct scientific research, induction, deduction and verification; Selection and formulation of research problems, reviewing of literature, Designing a research, Pre test and pilot study. Measures of central tendency—meaning and importance, arithmetic mean, median, mode; Measures of dispersion – measures of dispersion – meaning and importance, range, quartile deviations, mean deviation, standard– deviation.

#### **Unit-2**

Hypothesis, formulation and testing of hypothesis, Tests of Hypothesis – meaning, importance and different concepts, z-test, t-test, F-test, Chi-square test. Lorenz Curve; Correlation and Regression Analysis – meaning, types, importance, methods of measurement, Research Compilation and report: contents and style, factors in the organization of a research report, writing of foot notes, quoting styles, references, cross referencing and bibliography; Issues & areas of urban planning research and data.

#### **Unit-3**

Definition of Concept, Theory and facts, Process of theorization, Meaning and definition of Model, classification of models, role of different types of models used in urban planning, process of model application and its scope and limitation. Understanding and evaluation of operational models related to land use, transportation, location/allocation of activities, land value, accessibility, and simulation of urban growth, in terms of their objectives, theoretical structure, mathematical formulation, applications and limitations.

**Note: Research paper submission is mandatory and discussions on current affairs related to planning.**

### **Suggested Readings:**

1. Kumar, Ranjit, (2005). Research Methodology: An Introduction. New Delhi: Pearson Education.
2. Crotty, Michael (2003). Foundations of Social Research: Meaning and Perspective in the Research. London: Sage Publications.



3. Gomm, Roger, (2003). *Social Research Methodology: A Critical Introduction*. London: Palgrave Macmillan.
4. Wilkiinson, T.S. and Bhandarkar, P.L. (1984). *Methodology and Techniques of Social Research*. New Delhi: Himalaya Publishers.
5. Goode, W.J. and Hatt, P. K, (1982). *Methods in Social Research*. New York: McGraw-Hill
6. Keeble, Lewis, (1972). *Principles & Practice of Town & Country Planning*. London: Estates Gazette.
7. Gopal, M.H. (1970). *Introduction to Research Procedures in Social Sciences*. New Delhi: Asian Publication House.
8. Gibbs, Jack P. (1960). *Urban research methods*. New York: D Van Nostrand.

## **Paper-7 : Summer Practical Training**

**Paper Code : MURP/307**

**Course Credits : 02**

### **Course Objectives:**

- To expose the students to the profession of planning and foster links with the industry so as to develop an understanding of professional nature of various organizations involved in the planning profession. The student is required to undertake summer training after 2 semesters of course work in any government, private or research organization undertaking urban and regional planning works. The practical training will commence during the summer break between second and third semester.

### **Course Content:**

- The student is expected to work on any project/s related to urban planning or any specialization such as infrastructure planning, environmental planning, transportation planning, housing etc.
- 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.
- Each student shall have to undergo professional training for a period of at least 6 weeks in an establishment approved by the class coordinator and professor in charge.
- A student will be required to submit a performance report from the planner under whom training is undertaken as well as a detailed report on the work carried out by him during the training.
- The contents of the report should include brief introduction of organization and works undertaken, description of project/s worked on, role of individual student supported by data/evidences from the organization.
- The students would be evaluated on the basis of the report submitted and presented as a seminar at the time of viva-voce and the report received from the organization.

## **Paper-8A : Design for Special Areas (Elective-I)**

**Paper Code : MURP/308A**

**Course Credits : 02**

### **Course Objectives:**

- To introduce the students to various Special Areas with their specific planning needs and priorities and the implication on development in these areas.

### **Course Content:**

#### **Unit-1**

Evolution of special planning areas under distinct geo-physical structure, location, extreme backwardness etc. Planning commission approaches for identification of special areas.

#### **Unit-2**

Legislations and norms for Special Area Development in the Indian context. Planning for Special Areas under consideration would include Formal and Functional Regions (Hill Areas, Coastal Areas, Desert Areas, Extremist Affected Area, Special Economic Zones, Port City, Aerotropolis, Medi-City, Knowledge City etc.).

#### **Unit-3**

Capital investment and funding methods, public private partnerships in development process. Governance and Management aspects.

#### **Unit-4**

Case Studies of various typologies of Special Area Development Plans in Indian and international context.

### **Suggested Readings:**

1. Dobha, G.L. Development of Hill Areas. New Delhi: Concept Publishing .
2. Sharma Vinod. Environmental Problems of Coastal Areas in India. New Delhi: Bookwell.
3. Gupta, R.C. Integrated Development of Hill Districts in India : Issues and Approaches. SPACE.
4. Manoj, P.K. Special Economic Zones In India. New Delhi: Serials Publications .
5. Kasarda, John. Aerotropolis: The Way We'll Live Next. London: Allen Lane .
6. Chatterjee, Roma. Environmental Act in India. New Delhi: Oxford University Press .
7. CRZ Regulations, 2011, MoEF

# **Paper-8B : Inclusive Planning-(Elective-I)**

**Paper Code : MURP/308B**

**Course Credits : 02**

## **Course Objectives:**

- To introduce the students to various Special Areas with their specific planning needs and priorities and the implication on development in these areas.

## **Course Content:**

### **Unit-1**

Importance of Inclusive Development Urban development patterns, inequities and need for Inclusive development, growth of informal sector , Needs, access to shelter, services and livelihoods of informal sector ; Understanding inclusive growth concept, theories and components; essential dimensions of inclusive planning

### **Unit-2**

Stakeholders in Inclusive Urban Development Disadvantaged groups –urban poor, informal sector, gender, children, elderly, disabled, displaced people; Causative factors, determinants, informal sector- location characteristics, functions, economic contributions, linkages with formal sector; impact of informal sector on urban development

### **Unit-3**

Principle of Inclusive City Planning Inclusive city planning- Need, concept and pre-requisites, Affordable housing; resilient and sustainable urban form; social and economic development; key principles- Sustainability and Resilience, Accessibility, Diversity, Open Spaces, Compatibility, Incentives, Adaptability and Identity, Participatory Planning for Inclusive Development Importance of participatory planning for inclusive development; approaches and methods, of participatory planning, role of stakeholders (including civil society organizations) , constraints, prerequisites

### **Unit-4**

Management of Inclusive Cities Management of inclusive cities- need and approaches- Inclusive zoning, development and building regulations, slum improvement; related acts; five year plans, policies and programmes.

### **Unit-5**

Best Practices of Inclusive City Planning Policies for inclusive city planning; Best practices of inclusive Planning in India and abroad-planning approach, procedures and impacts, interdisciplinary policy issues, public action and participation for guiding inclusive planning in cities.

## **Suggested Readings:**

1. Jain, A.K. (2011). The Informal City: Inclusive Growth for Poverty Alleviation. Delhi: Readworthy Publications.
2. Chattopadhyaya, S. (2009). New Essays on Inclusive Housing. New Delhi: Mcmillan India.
3. Singh, R.U. and Thakur, A.K. Inclusive Growth In India. New Delhi: Deep and Deep.

## SEMESTER-IV

Paper Code	Course Category	Course Title	Course Credits	Internal Evaluation/ Sessional Marks	External Evaluation		Total Marks	Duration of Exam
					Portfolio Marks	Theory Marks		
MURP/401	CORE	Planning Thesis	26	195	455	-	650	
MURP/402	CORE	Professional Practice and Planning legislation	03	25	-	50	75	2 hrs.
MURP/403	DSE	<i>Elective -2</i> PPP in Urban Development Public policy	03	25	-	50	75	2 hrs.
<b>Total</b>			<b>32</b>	<b>245</b>	<b>455</b>	<b>100</b>	<b>800</b>	

## **Paper-1 : Planning Thesis**

**Paper Code : MURP/401**

**Course Credits : 26**

### **Course Objectives:**

- To develop independent critical thinking and design/research abilities and apply the knowledge gained, skills developed and professionalism inculcated over the last three semesters in an exercise of own interest and significant complexity.

### **Course Content:**

- The thesis project is to be undertaken independently by each student on a topic of his/her choice related to urban and regional planning, selected and approved by the faculty during the previous semester as part of course requirements of the subject seminar
- As part of the studio requirements, the student is expected to go through a process of documentation, analyses and synthesis related to his/her specific topic and related area of work.
- Initial stages would include study of relevant case studies and literature relevant to the topic, on the basis of which the space program would be determined.
- Alternative designs arrived at through an iterative process of prioritization and elimination would be developed in the next stage.
- Final stages of work would include detailed design of the best option selected. detailing would be largely dependent on the thrust and focus of the project selected and would vary from student to student.
- The student is required to work under the guidance of a supervisor allotted by the department and complete the requisite work in the course of the semester, ending in a viva-voce exam by a panel of examiners both external and internal.
- Progressive evaluation would be done by a panel of external and/or internal jurors during reviews held at intervals during the course of the semester.
- The student is required to defend his thesis through drawings, reports, study sheets, models and digital presentations and verbal communications in all the reviews and the final viva-voce.

## **Paper-2 : Professional Practice and Planning Legislation**

**Paper Code : MURP/402**

**Course Credits : 03**

### **Course Objectives:**

- Students are expected to gain knowledge in the legal issues in planning and how to design a contract as a professional practitioner.

### **Course Content:**

#### **Unit-1**

Introduction and importance of professional planning practice, Role of Planner in decision making process: qualities and responsibilities of spatial planner, Professional Ethics, Code of Professional Conduct, Code of Conduct of members of ITPI; Aims & objectives of professional institutes such as Institute of Town Planner, India, Sister professional institute such as Institute of Engineers, Institute of Architecture; Various services rendered by professional planner: Consultancy agreements & contracts.

#### **Unit-2**

Professional Planning in Public Sector – National Level, Interstate Level, State Government Level, District Level, Metropolitan Area Level, and Local Level. Initiation of Private Sector in Spatial Planning Process: Appointment of Consultants, contractors and developers. Professional Practice in Private Sector – Need of private sector involvement and types of private sector participants; Professional Practice in the joint Sector – Models of PPP and case studies of joint ventures; Legal Backing for residential developments in India. Registration, Licensing, consultancy office.

#### **Unit-3**

Organization composition and structure; Office infrastructure and equipment. Study of Revenue Plans in context of layout plans and Conversion Tables. Charges for normal and special professional services and their mode of payment. Relationship of the professional planner with clients, contractors, developers, public bodies and institutions; Copy rights, Disputes arbitrations; Handling of legal matters. Personnel Management – Objective, Motivation Theories, Leadership, Time Management; Performance Appraisal- its importance and various techniques.

#### **Unit- 4**

The Meaning, Significance and Objectives of Planning Legislation; Constitutional Basis and Provisions Relating to Land, Its Development and Use, 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

Preparation and Implementation of Regional Plans, Development Plans, Town Planning Schemes, Area Plans Etc.

### **Unit- 5**

Legislation for Land Acquisition and Land Ownership Including Rural and Urban Land Ceiling Acts and Their Implications on Development. Legislation on Conservation of Natural Resources and Heritage Building: Mining and Forestry Acts, Conservation and Management of Ancient Monuments and Archaeological Sites and Ruins Act, Overview of Development Control Regulations- Zoning, Sub-Division Regulations, Building Regulations and Bye Laws; Apartment Ownership Act, Water Bodies Conservation Act; Environment Protection Act, 73rd and 74th Constitution Amendment Acts and other relevant acts e.g. Nagar Raj Act; Model Municipal Act.

#### **Note:**

- Detailed teaching programme to be made before the commencement of the semester and circulated to the students at the commencement of the semester.
  - Examiner will set seven questions in total, covering the whole syllabus. Students will have to attempt 4 Questions in all.
  - All the questions carry equal marks [12.5 X 4 = 50]
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#### **Suggested Readings:**

1. India, Ministry of Urban Affairs & Employment. Urban & regional Development Plans Formulation and Implementation Guidelines. New Delhi: ITPI, 2014.
2. Kulshrestha, S.K. Urban and Regional Planning in India. New Delhi: Sage Publications, 2012.
3. American Institute of Certified Planners. Code of ethics and professional conduct. 2005.<[www.planning.org/etics/ethicscode.htm](http://www.planning.org/etics/ethicscode.htm)>
4. Institute of Town Planners of India. Memorandum, articles of association and bye-laws. New Delhi: Institute of Town Planners of India, 2003.
5. Shahgill, M. and Mushtaque, M. Project Management: Concept and Approaches. Jaipur: Printwell, 1993.
6. Pandey, J.N. Constitutional Laws of India. Allahabad: Central Law Agency.,1982.



## **Paper-3A : PPP in Urban Development (Elective-II)**

**Paper Code : MURP/403A**

**Course Credits : 03**

### **Course Content:**

#### **Unit-1**

Concepts and Need for PPP: Urban Sector - Existing Attributes and Changing Scenario; Problems Associated with Urban Sector Development; PPP – Definition, Need and Stages; PPP and Privatization; Evolution of PPP in India, Trends and Challenges: Challenges of Developing PPP Projects in Urban Sector; Recent Trends of Increasing Private Participation; Possible Partners and their Possible Roles

#### **Unit-2**

Forms of Partnerships: Forms of PPP: Service Contract, Management Contract, Lease, Divestiture and Concession; Different Options under Concession – BOO, BOOS, BOT, BOLT etc.; Joint Venture and Community Led Informal Partnership Approaches; Relative Merits and Demerits of Different Forms of PPP; Funding Structures under PPP

#### **Unit-3**

Partnerships, Alliances and Urban Development: Preconditions for Partnerships; Advantages of Collaboration; Making Groups and Partnerships Effective; Methods of Promoting Participation; Using Partnerships for Improving Urban Development in Small and Medium Size Cities; Meeting the Needs of the Urban Poor through Public-Private Partnerships

#### **Unit-4**

Mechanisms of PPPs: Mechanisms in Partnerships: Regulations and Administrative Procedures; Role of Government as Partner, Regulator and Enforcer; Principles of PPP – Contractual Framework, Selection of Service Provider, Payment Mechanism, Monitoring and Evaluation, Risk and Revenue Sharing; Regulatory Authority for PPP; Model Contract Agreement

#### **Note:**

- Detailed teaching programme to be made before the commencement of the semester and circulated to the students at the commencement of the semester.
- Examiner will set seven questions in total, covering the whole syllabus. Students will have to attempt 4 Questions in all.
- All the questions carry equal marks [12.5 X 4 = 50]

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#### **Suggested Readings:**

1. Joshi, R.N. PPP in Infrastructure. Vision Booth
2. Longa, Remo Dalla. Urban Models and Public-Private Partnerships. Berlin: SpringerVerlag.
3. Delmon, Jeffrey. Public-Private Partnership Projects in Infrastructure. Cambridge: Cambridge University Press.
4. Ramesh, G. et al. Public Private Partnership. London: Routledge.
5. Jain, A.K. Urban Level Policy and PPP for Real Estate & Infrastructure. Readworthy.
6. Blanken, Anneloes. Strategic Issues in Public-Private Partnerships. Hoboken: John Wiley.
7. Davidson, Nestor M. Affordable Housing and Public-Private Partnerships. Aldershot: Ashgate Publications .
8. Marin, Philippe. PPP for Urban Waste Utilities: A Review of Experiences in Developing Countries. Washington DC: World Bank.
9. Akintoye, Akintola et al. Policy, Management and Finance for PPP. Hoboken: John Wiley.
10. National Institute of Urban Affairs. Public Private Sector Provision of Urban Services. New Delhi: National Institute of Urban Affairs.
11. National Institute of Urban Affairs. Scope and Practice of Privatisation of Urban Services in India. New Delhi: National Institute of Urban Affairs.
12. Farquharson, Edward et al. How to Engage with the Private Sector in Public-Private Partnerships in Emerging Markets. Washington DC: World Bank, 2011 .
13. Institute of Town Planners of India. Infrastructure Development: Public and Private Participation Seminar, 1999. New Delhi: Institute of Town Planners of India.
14. India, Department of Economic Affairs. National Public Private Partnership Policy. New Delhi: India, Department of Economic Affairs, 2011.  
Asian Development Bank. Public-Private Partnership Handbook, Manila: Asian Development Bank.
15. Sharma, Yogendra. Public Private Partnership in Infrastructure. New Delhi: Vitasta.
16. Jain, Aarushi, Public Private Partnership for Rural Development: A Corporate Social Responsibility Perspective. New Delhi: Kanishka Publishers.
17. Ranjan, Rakesh. Public Private Partnerships Approach. Adhyayan Publisher.

## **Paper-3B : Public Policy-IV (Elective-II)**

**Paper Code : MURP/403B**

**Course Credits : 03**

### **Course Objectives:**

- This course intends to provide an in-depth study of the various approaches for policy formulation, implementation and evaluation. It addresses issues in policy analysis, and explains the forces that influence the functioning of executive, legislature, judiciary, civil society, NGOs and administration. It will also cover a critical analysis of policies that are directly connected with inclusive sustainable urban development.

### **Course Content:**

#### **Unit-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

#### **Unit-2**

Policy Monitoring: Approaches and Techniques; Policy Evaluation: Techniques and Approaches; Policy Evaluation: Role, Process and Criteria; Policy Performance: Evaluating Impact, Policy-Making Techniques: 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

#### **Unit-3**

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, International Agencies and Globalization of Policy Agendas

#### **Unit-4**

Critical Analysis of Making, Implementation and Monitoring of policy related to housing, economy, infrastructure and environment.

### **Note:**

- Detailed teaching programme to be made before the commencement of the semester and circulated to the students at the commencement of the semester.
  - Examiner will set seven questions in total, covering the whole syllabus. Students will have to attempt 4 Questions in all.
  - All the questions carry equal marks [12.5 X 4 = 50]
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**Suggested Readings:**

1. Tim Blackman, Tim. Urban Policy in Practice. London: Routledge.
2. Sapru, R.K. Public Policy: Art and Craft of Policy Analysis. New Delhi: PHI Learning.
3. Dunn, William N. Public Policy Analysis. New Delhi: Pearson Education
4. Agnihotri, V.K. Public Policy, Analysis and Design. Concept Publishing
5. Portney, Kent E. Approaching Public Policy Analysis: An Introduction to Policy and Programme Research. Prentice Hall- Gale
6. <http://urbanindia.nic.in/policies/TransportPolicy.pdf>
7. <http://envfor.nic.in/nep/nep2006.html>
8. <http://urbanindia.nic.in/programme/uwss/NUSP.pdf>
9. [http://mhupa.gov.in/w\\_new/sug\\_npustv.pdf](http://mhupa.gov.in/w_new/sug_npustv.pdf)
10. <http://wrmin.nic.in/writereaddata/linkimages/nwp20025617515534.pdf>
11. [http://mowr.gov.in/writereaddata/linkimages/DraftNWP2012\\_English9353289094.pdf](http://mowr.gov.in/writereaddata/linkimages/DraftNWP2012_English9353289094.pdf)