

M. PLAN (TOWN AND COUNTRY PLANNING)

MASTER OF PLANNING

[2 YEAR FULL TIME POST GRADUATE DEGREE PROGRAM]

REGULATIONS

2018 – 2019 Batch (New Syllabus)

CHOICE BASED CREDIT SYSTEM

(CBCS)

FACULTY OF ARCHITECTURE

	Semester I	Instruction hrs				Marks		
		L	T	P	C	CIA	ESE	TOTAL
18MPN101	Planning Theory and Practice	3	0	0	3	40	60	100

COURSE OBJECTIVE:

1. This course is an introduction to the history and theories of the planning profession.
2. Selectively draw on the literature in planning theory and history to examine a series of questions fundamental to planning practice.
3. The discussions, exercises, and readings on these questions will highlight alternative approaches to planning practice,
4. The discussions, exercises, and readings on these questions will highlight the approaches of current issues in the field of planning.
5. To study the methods of collecting data base and base map preparation
6. To study about the different planning concepts and inclusive planning

UNIT I PLANNING PRINCIPLES AND PROCESS

9

Process of evolution of human settlement planning, **Basic elements of the city**, Principles in planning - the Rational-Comprehensive approach, the Incremental approach, the Transformative Incremental (TI) approach, **the Transactive approach**, the Communicative approach, **the Advocacy approach**, **the Equity approach**, **the Radical approach**, and **the Humanist approach**.

UNIT - 2 PLANNING THEORIES AND SYSTEM

10

Theories: Concentric Zone Theory, Sector Theory, Multiple Nuclei Theory and other relevant theories; Concepts: Garden City Concept; Planning system in India - Introduction to master plan, structure plan, detailed development plans, city corporate plan and smart plan - **Orthodoxies of planning; Goal formulation, objective, scope, limitations Sustainability and rationality in planning.** Comparison of planning systems in UK and USA.

UNIT - 3 PLANNING SURVEYS

8

Data requirement for planning: questionnaire design, scale and application, sampling techniques. Techniques of conducting surveys for socio – economic, land use, density, structural condition of buildings, height of building, land utilization, physical features of land and transport survey. Aerial photo and remote sensing techniques in planning - Standards for various urban functions.

UNIT - 4 ANALYTICAL TECHNIQUES

10

Delphi, trade off-game, simulation models, gravity analysis, and Lowry model - Threshold analysis and multivariate analysis - Techniques of delineation of planning areas and planning regions - Land use models.

UNIT 5 OPTIMIZATION TECHNIQUES

8

Optimization and economic analysis methods in project formulation and implementation, CPM, PERT, PBBS, Goal achievement matrix, Introduction to Cost-Benefit analysis. Research writing and article writing to be a part of Units I (Planning principle and Process) and II (Planning system).

TOTAL : 45 PERIODS

COURSE OUTCOME:

1. The above course introduces the history of spatial planning
2. the students will have the ability to understand various modes of planning.
3. They will earn the skill to apply basic analytical and optimizing techniques needed.
4. Methods of population forecast in settlement
5. Ability to plan project management
6. They learn about emerging trends in planning of cities and towns

REFERENCES:

1. Andreas Faludi, A Reader in Planning Theory. Pergamon Press Oxford, New York, 1973.
2. Belinda K P Yuen, 'Planning Singapore: from Plan to Implementation, Singapore Institute of Planners, Singapore, 1998.
3. Jonathan Barnett, 'Redesigning cities: Principles, Practice, and Implementation, Planners Press, Chicago, 2003.
4. Lee. C, 'Models in Planning; An Introduction to the use of Quantitative Models in Planning, Pergamon Press, New York, 1973.
5. Rabindra Nath Dubey and Bhim Rao, 'Urbanization and Urban Planning in India-, Shree Nataraj Prakashan, New Delhi. 2010.
6. Ramachandran R, 'Urbanization and Urban Systems in India, Oxford University Press, Oxford. 1991.
7. Randall Crane and Rachel Weber, 'The Oxford Handbook of Urban Planning, Oxford University Press, New York, 2012.
8. Sundaram K.V, 'Urban and Regional Planning in India, Vikas Pub. House, New Delhi. 1977.
9. Viviana Kaminski, 'Urban Studies and Planning. World Technologies, New Delhi. 2012.
10. Regional planning for urban spaces AD Walk
11. Urban and Regional planning reader Birch E, Glasson
12. Kaiser Edward J., et.al., 1995, Urban Landuse Planning 4th (ed) Urbana, University of Illinois Press 8.
13. Bola Ayeni, 1979, Concepts and Techniques in Urban Analysis, Croom Helm, London.

	Semester I	Instruction hrs				Marks		
		L	T	P	C	CIA	ESE	TOTAL
18MPN102	Socio – Economic and Spatial aspects of Human Settlements and Planning	3	0	0	3	40	60	100

COURSE OBJECTIVE:

1. To teach the students the social sciences inputs (Urban and Rural Sociology, Urban and Regional Economics and Urban and Human Geography)
2. analyzing human settlements evolution, growth & development and incorporating them while planning of human settlements at the rural, urban and regional levels.
3. To understand the socio cultural background of Indian communities
4. To learn about the socio economic problems and issues in india
5. Study about the economic growth in Indian settlements
6. To study about the different communities and sociological theories in community development

COURSE OUTCOME:

1. The course illustrates that the students think and analyze the spatial planning attributes from the social and economic perspective.
2. This subject facilitates graduates towards sensitize about society and environment.
3. Teaches the importance of socio cultural profile in building up communities
4. Earn knowledge in urban economics and its aspect
5. Types of societies and its significances in economic growth
6. They learn about sociological theories in the community development

UNIT I SOCIOLOGY CONCEPTS AND SOCIO-SPATIAL ASPECTS 10

Introduction to the sociological concepts of Marx, Talcot, Parsons, Weber, Durkheim, Riesman, Jacobs. Socio - spatial structures and Institutions related to urban and rural communities - Human and urban geography of urban areas – Human interaction and spatial form of cities- Ecological processes and socio-spatial structures in Indian Cities.

UNIT - 2 ECONOMIC BASE 8

Economic concepts and frameworks - Macro and micro economics - Agglomeration economics - Economics of scale - Multiplier effect-concepts and scope – Urban economics - intersection of geography and economics introducing the role of space into economic considerations- Economic base of cities and region - Understanding economic base and changing spatial structure of urban areas - role of public and private policies that impact the urban form, structure and economy.

UNIT - 3 SOCIO - ECONOMIC, AND GEOGRAPHIC CONCERN AND DEVELOPMENT 10

Geographical, sociological and economic aspects of rural and urban Development - Government, non-government and community participation in the local and regional area planning and development. *Role of socio-cultural aspects on growth patterns of city and neighbourhood communities; Social planning and policy, and community participation;*

UNIT - 4 URBAN LAND USE AND SETTLEMENTS ORGANIZATION 7

Land use determinants - Location dynamics of urban Land use - Spatial organization of urban settlement - Social and economic Impacts of urban growth and expansion. *Economic growth and development, quality of life; Human development index; Economic principles in land use planning;*

UNIT 5 URBAN STRUCTURE, URBANIZATION & IMPACTS ON LIVELIHOOD 10

City-region, urban sprawl, and urban fringe - Urbanization in the World and India at a glance - Urban development in Tamil Nadu and Chennai city with reference to settlements, population distribution, economic activities and governance. Sustainable livelihoods — vulnerabilities and social exclusion – agenda for the urban poor - livelihood strategies, resilience and transformability. Research writing and article writing to be a part of Units I (Socio-spatial aspects), II (Economic base), III (socio - economic, and geographic concern and development), IV (urban land use and settlements organization) and V (urban structure, urbanization & impacts on livelihood)

TOTAL : 45 PERIODS

REFERENCES:

1. Arthur Kohun, 'History Builds the Towns', Lund Humphries, London, 1953.
2. Bhatt Caste, 'Class and Politics', Manohar Book Service, Delhi. 1975.
3. Carter H, 'The Study of Urban Geography', Edward A Old, London. 1972.
4. Chapin F.S, 'Urban Land use Planning', Higg & brothers, New York, 1965.
5. Antony Giddens and Philip W Sutton, 'Sociology-Introductory Readings, Polity, Oxford. 2010.
6. Global Review of Human Settlements, Pergamon Press, London, 1976.
7. Xiangming Chen, 'Introduction to Cities: How Places and Space shape Human Experience, Wiley Blackwell, UK 2012
8. Sundaram K.V. (Ed), 'Geography & Planning', Concept Publishing Co., New Delhi, 1985.
9. Wilson R.A. & D.A. Schulz, 'Urban Sociology', Prentice Hall Inc., New Jersey, 1978.
10. Saskia Sassen, 'Cities in the World economy', Pine Forge Publishers UK.
11. Philip McGann, 'Modern Urban and Regional Economics' Oxford University press London.2013.
12. Frank Tonkins, 'Cities by Design: The Social Life of Urban Form' Polity Publications, UK. 2013.
13. O 'Sullivan, A. (2014) Urban Economics, 8th Edition (McGraw Hill/Irwin). 2014
14. William G. Flanagan, "Urban Sociology-images and Structures", Rowman & Littlefield Publishers Inc, 2010

	Semester I	Instruction hrs				Marks		
		L	T	P	C	CIA	ESE	TOTAL
18MPN103	Traffic and Transportation Planning	3	0	0	3	40	60	100

COURSE OBJECTIVE:

1. Traffic and transportation planning is an integral part of spatial planning at any level. Therefore, it is proposed to give an overall framework of this course to the students of M. Plan programme in the first semester itself.
2. The objective of this course is to give an historical perspective of road development in India, salient features of road geometric and intersections, traffic surveys, planning aspects of different mass transportation systems and introductory part dealing with highway capacity.
3. To understand the different transport system and approaches in design
4. To understand basic principles and techniques in transport planning
5. To analyse, designing and forecasting for the future demand
6. To study about the transport planning process

COURSE OUTCOME:

1. In the urban transportation planning process, discuss its relationship to transportation facilities development, treat specific techniques of analysis and evaluation for urban transportation planning, and discusses possible means of achieving project and societal objectives.
2. Learn about urban transport and road safety planning
3. Survey techniques used to analyze the existing traffic conditions and plan for future demand
4. Integrated understanding of modes of transport and transport infrastructure planning
5. Understand the planning process involved in road network, infrastructure, and safety planning
6. They learn about the transport planning process

UNIT I TRANSPORT DEVELOPMENT IN INDIA

8

Economic, political and social significance of transport development –Transportation in cities - Development of rail, water and air transport policies and programmes in India- Scope and content of Nagpur, Bombay and Lucknow road development plans - Current trends in the road development sector in India.

UNIT - 2 URBAN TRANSPORTATION SYSTEM & TRIP GENERATION ANALYSIS:

10

Transport planning process, Problem definition, Solution generation, Solution analysis, Evaluation and choice, Implementation - Sequence of activities involved in transport analysis

UNIT - 3 MODE CHOICE MODELING AND TRIP DISTRIBUTION ANALYSIS:

10

Mode Choice Modeling: Influencing Factors, Earlier Modal Split Models, Trip-End Type Modal Split Model, Trip-Interchange Modal Split Model, Different modes – Capacities – Limitations – Planning aspects – Coordination – Para transit modes – Private transport.

UNIT - 4 TRIP DISTRIBUTION ANALYSIS AND ROUTE ASSIGNMENT

8

Trip Distribution Analysis: Presentation of Trip-Distribution Data, PA Matrix to OD Matrix, Basis of Trip Distribution, Gravity Model of Trip Distribution, Calibration of Gravity Model, Singly and Doubly Constrained, Gravity Models,

UNIT 5 TRANSPORT SURVEY AND HIGHWAY CAPACITY

9

Transportation Survey: Definition of Study Area Zoning Types of Movements, Types of Surveys Volume Count – Origin and Destination – Parking and Public Transport Surveys – Inventory of Transport facilities – Methods of Survey – Analysis – Inferences,

Concept of PCU and level of service – Capacity of uninterrupted flow conditions – Flow affecting capacity and level of service – Capacity of rural and urban roads. Research writing and article writing to be a part of Units I (Transport development in India) and IV (Mass transportation systems)

TOTAL :45 PERIODS

REFERENCES:

1. Dimitriou H.T, Urban Transport Planning, A Development Approach, Routledge, London, 1992.
2. Hutchinson, B.G., 'Principles of Urban Transport Systems Planning' McGraw – Hill Book Co., New York, 1980.
3. Johanna Zmud, Martin Lee-Gosselin, 'Transport Survey Methods: Best Practice for Decision Making' Emerald Group Publishing, 2013
4. John W. Dicky, 'Metropolitan Transportation Planning', McGraw – Hill Book Co., New York, 1980.
5. Kadiyali L. R, 'Traffic Engineering and Transportation Planning' Khanna Publications. New Delhi, 1966.
6. Michael J. Bruton, 'An Introduction to Transportation Planning', Hutchinson, London, 1985.
7. Michael D. Meyer, Eric J. Miller, Urban Transportation Planning: A Decision-Oriented Approach, McGraw-Hill Higher Education, 2001
8. Vaidya B.C 'Geography Of Transport Development In India' Concept Publishing Company, 2003
9. Vukan R. Vuchic, 'Urban Transit Systems and Technology' John Wiley & Sons, 2007

	Semester I	Instruction hrs				Marks		
		L	T	P	C	CIA	ESE	Total
18MPN121	Planning Studio I	3	0	10	8	160	240	400

COURSE OBJECTIVE:

1. Ability to gain knowledge in social and economical, legal and political, environmental and physical, governance and management aspects of planning
2. Ability to gain knowledge in concepts, and theories, methods and techniques and social realities
3. To improve communication skills.
4. Ability to formulate a framework for study.
5. To study and analysis the problem and suggest a suitable solution.
6. To understand various practices and standards followed in planning

COURSE OUTCOME:

1. Ability to present and communicate their ideas
2. To create livable human settlements in rural, urban and regional areas.
3. Students are also exposed to build confidence and capacity to work in academic, professional, corporate and voluntary sector work environment towards preparation, execution, implementation and monitoring of planning assignments.
4. Ability to review, comprehend and report technological developments in the profession of planning
5. Ability to gain advanced knowledge in Planning practices by being exposed to multi disciplinary learning environment.
6. Ability to understand ethical and professional responsibilities.

The Planning project II intends to expose the students to

1. Development of communication skills – Map preparation, report writing and presentation skills
2. Understanding of various surveys relating to preparation of plans for urban and rural Settlements
3. Preparation of plans for micro-level units
 - a. Study at Village level - Structure of village, problems, current rural improvement programmes and structure of administration.
 - b. Study on Urban Land uses Land use Zones – Land use activities – Their functional and spatial characteristics – Issues related to functions, spaces and Infrastructure
 - c. Action planning - Planning at Residential Layout Level Review of literature, site analysis, and study of existing layouts - Design criteria's – Existing act and byelaws - Alternative designs - Finalization of designs, Cost of the projects and model.

TOTAL: 150 PERIODS

	Semester I – Elective	Instruction Hrs				Marks		
		L	T	P	C	CIA	ESE	Total
18MPNE1A	Public Transport Planning	2	0	8	6	120	180	300

COURSE OBJECTIVE:

1. To introduce students to Public Transport System including its performance and Economic Aspects.
2. To study Infrastructure required for Bus Stops, Terminals and Depots.
3. To study about the main factors that affects usage of public transport
4. To learn about the modern techniques, government policies and economical aspects in transport development
5. Understand advantages of sustainable and efficient modes of transport
6. To study about the different economic factors involved in public transport planning

COURSE OUTCOME:

1. Learn about the different principles of public transport design
2. The importance of public transport network planning
3. Earn ability in working out Project management for different modes of transport
4. Evaluate and critically analyze the existing pattern of public transport modes in India
5. Advanced systems in public network planning like Multi Modal transport system
6. Learn about the different infrastructure requirement in public transport planning

UNIT - 1 INTRODUCTION TO PUBLIC TRANSPORT SYSTEMS

36

Highway systems – Road type and classification, road patterns, Urban passenger transport system characteristics, public transport modes, genesis of public transport system, mass transit system, Para transit system, technological features, Demand for public transport, public transport demand and supply indicators, determinants of public transport supply and demand, public transport supply and demand characteristics in cities of various sizes and socio economic setting.

UNIT - 2 PUBLIC TRANSPORT PERFORMANCE AND ECONOMIC ASPECTS (Part 1)

24

Identification and Measurements of Highway Benefits, Physical and financial performance indicators for public transport, performance characteristics of various public transport modes including para-transit modes,

UNIT - 3 PUBLIC TRANSPORT PERFORMANCE AND ECONOMIC ASPECTS (Part 2)

24

Introduction to PPP - Concepts of BOO, BOT, BOOT, Public transport fare types and pricing criteria, costs, services; price elasticity of demand; subsidy issues; regulation, privatization impacts and integration issues on public transport performance; public transport financing;

UNIT - 4 PUBLIC TRANSPORT NETWORK PLANNING AND SCHEDULING

36

Public transport based city forms and structure, Transit Oriented Development (TOD); Impact of city density, size, activity concentration on public transport patronage. Form, type and density of bus route network, bus route network planning principles; Types of bus priority measures, merits and limitations.

UNIT - 5 BUS STOPS, TERMINALS AND DEPOT INFRASTRUCTURE

30

Bus stops – types and characteristics , planning guidelines, pedestrian –public transport interface ; Bus Terminals – types, assessment of facilities and land areas for terminals; interchange- concepts, function and planning guidelines; bus depot -concepts, function, activity and land requirements, planning guidelines. Research writing and article writing to be a part of Units I (introduction to public transport systems), II (public transport performance and economic aspects (part 1)), III (public transport performance and economic aspects (part 2)), IV (public transport network planning and scheduling) and V (bus stops, terminals and depot infrastructure)

TOTAL : 150 PERIODS

REFERENCE BOOKS:

- 1 White, P. Public Transport Planning, Management and Operation 1988 London, Hutchinson
2. Nash, C.A. The Economics of Public Transport London, Longman
3. Vuchic, V.R. Urban Public Transportation 1982 4. Chakraborty and Das, A Transport Planning and Highway Engineering 2003 PHI

	Semester I – Elective	Instruction Hrs				Marks		
		L	T	P	C	CIA	ESE	Total
18MPNE1B	Transport Economics	2	0	8	6	120	180	300

COURSE OBJECTIVE:

1. To study Transport Demand and Supply, including Costing and Pricing of Services.
2. To study Principles of Economic Appraisal of Transport Projects.
3. To learn about the issues related to transport funding and public transport economy
4. Evaluate and criticize the current economic policy in transport development
5. To know about large transport project and its funding management
6. Imbibe knowledge on costing and pricing of transport services

COURSE OUTCOME:

1. Creative and innovative solutions for transport funding and operational system
2. Develop the software skills in data analysis
3. Interpret economic data required for the transport demand
4. Interpret transport and road pricing
5. They learn about transport regulation
6. Various methods of evaluation for ongoing transport development

UNIT - 1 TRANSPORT DEMAND AND SUPPLY 30

Concepts and Principles of Engineering Economics, Identification and Measurements of Highway Benefits, Movement, transport and location, transport and economic development; Demand for transport, factors influencing demand; elasticity of demand, measures of elasticity; supply of transport, elasticity of supply; demand forecasting.

UNIT - 2 COSTING AND PRICING OF TRANSPORT SERVICES (Part 1) 30

Fixed and variable cost, joint and common cost, cost allocation, user cost internal cost, external cost, economic cost;

UNIT - 3 COSTING AND PRICING OF TRANSPORT SERVICES (Part 2) 30

Principle of pricing, marginal cost pricing, price discrimination, operational objectives of pricing; revenues, transport subsidies, [Methods of Economic Analysis](#).

UNIT - 4 PRINCIPLES OF ECONOMIC APPRAISAL 30

Importance of infrastructure; basic principles of appraisal, benefit valuation, cost benefit analysis, multi criteria analysis. [Methods of Economic Analysis, Comparison of the Methods of Analysis-, Characteristics and Limitations of the Different.](#)

UNIT - 5 REGULATION OF TRANSPORT 30

Theory of regulation, priorities in transport policies, regulatory reforms, coordination. Research writing and article writing to be a part of Units I (transport demand and supply), II (costing and pricing of transport services (part 1)), III (costing and pricing of transport services (part 2)), IV (principles of economic appraisal) and V (regulation of transport)

TOTAL : 150 PERIODS

REFERENCE BOOKS:

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

1. Sarkar, P.K. and Maitri, V. Theory and Applications of Transport Economics in Highway and Transport Planning 2010 Standard Publisher
2. Hutchinson, B.G. Principles of Urban Transport System Planning Mc-Graw Hill Book
3. Indian Road Congress Manual of Economic Evaluation of Highway Projects in India 1984 Special Publication
4. Kanafani, Abid Transportation Demand Analysis
5. Papacostas, C.S. and Prevedours, P.D. Transportation Engineering and Planning 2001 Prentice Hall
6. Stubbs, P.C., Tyson, W.J. and Dalvi, M.Q. Transport Economics 1980 London, George Allen and Unvers, Boston, Sydney.

	Semester I – Elective	Instruction Hrs				Marks		
		L	T	P	C	CIA	ESE	Total
18MPNE1C	Disaster Management	2	0	8	6	120	180	300

COURSE OBJECTIVE:

1. To generate interest in students to understand the causes and consequences of disasters
2. study its importance in planning and managing cities and towns towards mitigation and rehabilitation.
3. Provide the basic concepts and understandings of various disasters
4. To study about disaster resilient community design
5. Study and build skills for disaster response
6. To build disaster resilient communities and develop strategies for disaster management

COURSE OUTCOME:

1. The topics of the subjects attempt to sensitize the students about the ill effect of the disasters as well as the importance of preparedness.
2. It also inculcates the students that technology as well as community effects are important to mitigate disaster.
3. Mitigation measures related to environment and settlements
4. Learn about disaster resilient community design
5. Learn about the legal aspects and policies for disaster risk reduction
6. Creates disaster awareness in the future development

UNIT 1 DISASTER

15

Concepts and processes - Disaster cycle-myths and realities- Disaster-types, causes and consequences - Impacts of disasters on living things, properties, nature and community - Disaster- its importance towards multi-disciplinary perspective. [Types of Incident Management, Stage of Disaster management –Hazard and vulnerability introduction,](#)

UNIT - 2 NATURAL AND MAN-MADE DISASTERS

30

[Types of natural Disasters- Seismic, Mass movement, Hydrological, Metrological disasters - its types, magnitude, intensity and its managements,](#) - Disaster and man-made environment - Industrial pollution and health Hazards - Industrial pollution and natural resource damage - Social vulnerability and damage to people and property - Case studies related to natural disaster and man-made disasters at the national and international levels.

UNIT - 3 DISASTER POLICY AND RISK ANALYSIS

30

Disaster management policy, [Disaster management plan at national and state,](#) National and State Bodies for Disaster Management. Disaster management plan of developed nations.

UNIT - 4 DISASTER AND TECHNOLOGY

60

[Disaster mitigations for Earthquake, flood and cyclone –Retrofitting, Technology, building materials, design considerations,](#) - Prediction. Land use planning and regulations: [Temporary settlements and communications,](#) Role of Information, Education, Communication, and Training,

UNIT 5 DISASTER EDUCATION AND COMMUNITY BUILDING

15

Community awareness and action - Participatory management of community and disasters - NGO role and disaster preparedness and management, national and international perspectives – Government-roles and various levels in terms of proactive and reactive measures towards managing disasters - Gender perspectives-women, children, aged, physically disabled and disaster management. Research writing and article writing to be a part of Units I (disaster), II (natural and man-made disasters), III (disaster: physical planning and resource management), IV (disaster and technology) and V (disaster education and community building)

TOTAL: 150 PERIODS

REFERENCES:

1. Cutter L. Susan, 'Environmental Hazards and Risks, Printice Hall of India Pvt. Ltd, New Delhi, 1999.
2. Horst Friedrich, 'Earthquake Disaster Management', Peter lang, London, 2005.
3. Journal of Socio Economic Development Record Vol.12 No.1 Jan-Feb. 2005.
4. Ian Davis, 'Safe Shelter within Unsafe Cities: Disaster Vulnerability and Rapid Urbanization, Open house International, UK, 1987.
5. Mary C. Comerio, 'Disaster Hits Home, New Policy for Urban Housing Recovery', Oxford University Press, London, 2001.
6. Naseem Ahmed, 'Disaster Management', Kilaso Books, New Delhi. 2003.
7. Parag Diwan, 'A Manual on Disaster Management', Pentagon Earth, New Delhi, 2007.
8. Satendra, 'Sustainable Rural Development for Disaster Mitigation', Concept Publishing Co. 1 New Delhi, 2004.
9. Shyam Divan and Armin Rosencranz, 'Environmental Law and Policy in India, Cases, Materials and Statutes, Oxford University Press New Delhi. 2001.
10. World Bank, 'Building Safer Cities, World Bank, Geneva, 2013.

	Semester I – Elective	Instruction Hrs				Marks		
		L	T	P	C	CIA	ESE	Total
18MPNE1D	Real Estate And Housing Markets	2	0	8	6	120	180	300

COURSE OBJECTIVE:

1. This course applies the latest economic thinking and research to the task of analyzing real estate markets
2. Forecasting supply or demand for the future
3. Theories in housing markets and development
4. To gain knowledge on various real estate models for project formulation, implementation etc
5. Understand the land legislation and acquisition in real estate projects
6. Professional services, sale and marketing aspects of Housing and real estate

COURSE OUTCOME:

1. The outcome of this course is to provide students with a comprehensive understanding of major functional areas of real estate, including legal aspects, finance, economics, real estate practice and appraisal.
2. Economic concept of land, land pricing and acquisition
3. Urban reforms, acts and policies related to real estate markets
4. They learn about real estate development in public, private, partnership sectors
5. Tools and techniques used in land acquisition, land pooling and housing
6. Estimation and costing of real estate projects

UNIT I INTRODUCTION

15

Introduction to real estate - Definition, principles of real estate - Value concepts - Methods of valuation, **Factors affecting real estate market, role of govt. in real estate, statutory provisions, risk management**, Introduction to real property ownership - Leasing property and succession - Methods of sale/purchase and title search.

UNIT - 2 INVESTMENT AND LAWS

15

Real estate investment analysis and portfolio management - Foreign direct investment (FDI) - Role of NRIs and PIOs in the investment market - Marketing and brokerage - Introduction to various laws related to real estate – 17 Acts. **Principles for drafting agreements relating to real estate,**

UNIT - 3 REAL ESTATE PROJECT FORMULATION

15

Entrepreneur and Entrepreneurship, Real estate project formulation - Real estate development process - Asset management, property insurance, taxation and fiscal incentives - Government policies and industry organization - Public-private partnerships and joint ventures, **Direct Purchase Vs Joint Venture Models of Development**, rating, and risk assessment.

UNIT - 4 HOUSING MARKETS

30

Concepts and definitions, housing market, area, the purpose - Nature of housing market studies-factors affecting housing prices, housing market behavior - Estimation of housing need, housing demand and identification of housing stress - Factors affecting local housing market - Housing demand and supply market process - Housing search residential mobility and filtering causes and consequences - Policy influence on housing market - The formal and informal housing markets and their impact on urban poor, public - Co-operative and private sector housing market, process and supply institutional frame work.

UNIT 5 CASE STUDIES

75

Case studies of real estate development in public, private, partnership sectors - Real Estate as facilitator of development - Development of real estate as a tool for controlling land and property prices - Transaction and renting of real estate - Lease deeds/ sale deeds, sale documents, registration - Mortgage and pledging. Research writing and article writing to be a part of Units IV (housing markets) and V (case studies).

TOTAL: 150 PERIODS

REFERENCES:

1. David J. Lynn, 'Emerging Market Real Estate Investment: Investing in China, India, and Brazil' ; John Wiley & Sons Inc, U.S.A. 2010
2. Fillmore W Galaty, 'Modern Real Estate Practice' Dearborn Trade Publishing, New York, U.S.A. 2002.
3. John Ratcliffe, 'Urban Planning and Real Estate Development' Routledge, Taylor & Francis Group, London, 2009.
4. Narayan Laxman Rao, 'Real Estate Deals'; Asia Law House, India. 2010
6. Rajkumar S Adukia, 'Real Estate: Law Practice & Procedures' Snow White Publications Pvt. Ltd, India. 2009

	Semester I – Elective	Instruction Hrs				Marks		
		L	T	P	C	CIA	ESE	Total
18MPNE1E	Materials, Technology and Infrastructure	2	0	8	6	120	180	300

COURSE OBJECTIVE:

1. To expose the students to Traditional and Conventional Building Materials.
2. To study Cost Reducing and Environment friendly Technologies for Housing Projects.
3. Understand Elements of physical infrastructure and its implementation in urban and rural areas
4. To study about the new technologies in the field of infrastructure development
5. Study on Modern materials and construction technologies
6. To gain knowledge in Significance of Housing construction industry and its characteristics

COURSE OUTCOME:

1. To study various Technologies for Housing Development along with Physical Infrastructure.
2. Learn about alternate material and construction technique
3. Different components of physical planning and design of infrastructure
4. Emerging technologies and concepts in housing
5. Cost optimization techniques in Indian housing scenario
6. They learn about Role of BMTPC and other organizations in promotion of new and alternative technologies

UNIT - 1 INTRODUCTION TO MATERIALS AND TECHNOLOGY

15

Building materials traditional and conventional, low cost materials, significance of technology for housing development, conventional technologies and modern technologies, appropriate technology, technology for housing in the context of housing development in India and the third world. **Introduction to mechanization: Definition, advantages and limitations of mechanization.**

UNIT - 2 PREFABRICATION AND INDUSTRIALIZATION

15

Concept of prefabrication, industrialization and system building, **Types of prefabrication – site and plant prefabrication - Economy of prefabrication**, various open and closed systems, choice of various systems of building, concept of intelligent building;

UNIT - 3 CONSTRUCTION INDUSTRY

15

Organization of the construction industry in India-Significance of Housing construction industry, its characteristics and role of various factors involved; Small scale enterprises in the housing construction industry-building material manufacturers, sellers and small contractors. Significance of resources and manpower in housing construction, need for imparting in housing building, concept of Nrimithi Kendras. **Quality policy in construction industry.**

UNIT - 4 COST OPTIMIZATION

15

Cost reducing techniques, environmental friendly technologies, role of technology in housing projects formulation-cost time and other implications, Emerging technological perspectives for house construction, infrastructure and housing area planning.

UNIT - 5 ALTERNATIVE TECHNOLOGIES

90

Role and significance of Physical infrastructure in housing development, characteristics of various components of physical planning and design of infrastructure, appropriate technology for infrastructure development, rain-water harvesting, use of solar energy, wind energy and other appropriate technologies; **Current and future trends in Construction technologies**, Role of BMTPC and other organizations in promotion of new and alternative technologies. Research writing and article writing to be a part of Units I (introduction to materials and technology), II (prefabrication and industrialization), III (construction industry), IV (cost optimization) and V (alternative technologies)

TOTAL: 150 PERIODS

REFERENCE BOOKS:

1. BMTPC, GoI Brochures of Building Materials and Technology Promotion Council (BMTPC), Government of India BMTPC, New Delhi
2. BMTPC Directory of Indian Building Materials and Products 2009 BMTPC, New Delhi
3. Government of India Report of High Powered Expert Committee for Estimating Investment Requirements for Urban Infrastructure and Services 2011 GoI

	Semester II	Instruction hrs				Marks		
		L	T	P	C	CIA	ESE	TOTAL
18MPN201	City Planning	3	0	0	3	40	60	100

COURSE OBJECTIVE:

1. This course is planned to offer the students, the actual process of plan making at different levels i.e. city level and zonal levels and giving the case studies and their overview.
2. The other aspects which are proposed to be dealt in this course are the development control rule which gives the required legal support to the city plans and also contain elementary aspects of urban renewal.
3. Study the growth and evolution of cities with respect to their socio economic setup
4. Understand the context, location and linkage factors
5. To study the problems and issues of metropolitan cities
6. To study about the process of preparing Master plan

COURSE OUTCOME:

1. As an outcome of the above course the graduates will have the ability to conceptualize, analytically define, and treat mater plan, zonal plans and detailed development plan professionally
2. They would earn skills in preparing and reviewing the above plan.
3. Learn to prepare development plans for different scale of cities
4. Understand the city sprawl, and peri urban development
5. Urban development policies and programmes
6. They learn about Urban renewal and redevelopment

UNIT I INTRODUCTION

8

Urban - classification, Characteristics of Urban area, Impacts of urbanization – Global and India, Land utilization, Contemporary theories and concepts in city planning - Political influence and polarization of economic, socio-cultural and administrative activities.

UNIT - 2 MASTER PLAN

12

Plan making process, Delineation of planning area, assessment of developmental issues - Plan period and phasing - Process, Formulation of aim and objectives, Development proposals and land use planning, Delineation of zones, Resource mobilization, Implementation mechanism, Monitoring and review, Public participation - Deficiency of master plan.

UNIT - 3 ZONAL PLAN AND DEVELOPMENT CONTROL RULES

9

Concept, priority in the preparation - Plan making process (URDPFI) – Introduction, Site and background analysis, Conceptual framework, Proposals and development strategy, Assessment of developmental issues - Projection of requirements - Land use zones and sub classification - Permissible activities, appellant activities, and prohibited activities - Appeals, appellant authority, and unauthorized developments.

UNIT - 4 CASE STUDIES

6

Case studies on Eco cities, Healthy cities, Low carbon cities, resilient cities, Method of preparation, issues and proposals, and critical appraisal. Research writing and analytical writing

UNIT 5 URBAN RENEWAL

10

Urban renewal as a part of metropolitan plan - Techniques of identification of urban renewal areas - Conservation, rehabilitation and redevelopment - Management of urban renewal areas - Incentive zoning and transfer of development rights. JNNURM – Mission, eligibility, Finance, Implementation and targets, AMRUT– Mission, eligibility, Finance, Implementation and targets. Research writing and article writing to be a part of Units I (introduction), II (Master plan), III (zonal plan and development control rules), IV (case studies) and V (urban renewal)

TOTAL: 45 PERIODS

REFERENCES:

1. Andreas Faludi & Sheryl Goldberg, 'Fifty years of Dutch National Physical Planning, Alexandrine Press, Oxford, 1991.
2. Daniel G. Parolek, AIA, Karen Parolek, Paul C. Crawford, FAICP, Form Based Codes: A Guide for Planners, Urban Designers, Municipalities, and Developers, John Wiley & Sons, 2008
3. Darren Robinson, 'Computer Modeling for Sustainable Urban Design: Physical Principles, Methods and Applications, Earth scan, Washington, DC, 2011.
4. John L. Taylor & David G. Williams, 'Urban Planning Practice in Developing Countries, Pergamon Press, Oxford, 1982.
5. Kaiser Edward J., 'Urban Land use Planning, University of Illinois Press, Urbana, 1995.
6. Lichfield N.,(Ed), 'Evaluation in Planning: Facing the Challenge of Complexity, Kluwer Academic Publications, Dordrecht. 1998.
7. Melville Campbell Branch, 'Comprehensive Planning for the 21st Century: General Theory and Principles, Westport, Conn. Praeger, 1998.
8. Randall Crane and Rachel Weber, 'The Oxford Handbook of Urban Planning, Oxford University Press, New York, 2012.
9. Stuart Chapin and Edward John Kaiser, 'Urban Land use Planning, University of Illinois Press, Urbana, USA., 1979.
10. Ananya Ray and Aitiwa Ong Eds, 'World of Cities: Asian Experiments and the Art of Being Global, Wiley Blackwell, US 2011.

	Semester II	Instruction hrs				Marks		
		L	T	P	C	CIA	ESE	TOTAL
18MPN202	Regional Planning	3	0	0	3	40	60	100

COURSE OBJECTIVE:

1. To make the students understand the concept of regional planning and make them skillful in applying various methods and techniques of regional planning.
2. To provide knowledge on different types of regions and its linkages
3. Understand the Paradigm shift in regions and planning
4. To study about different methods to analyse region and its growth
5. Scale, complexity and its impacts in different type of regions
6. Study about tools and techniques available for planning regions in india

LEARNING OUTCOME

1. The students will understand the need for Planning at various levels & especially the thrust and focus of regional planning.
2. The students will become familiar with the contents, approach and methodology of preparation of regional plans.
3. They will also learn important concepts & techniques in regional planning.
4. Expected to learn about the region and its dynamics
5. Impacts of globalization in the regions
6. They Learn about different case examples

UNIT I CONCEPT OF REGIONAL PLANNING

9

Concept - **Defining a region**- fluidity and **purpose**, and need for regional planning and regional development, Sustainable regional development and its components – Regionalization - Evolution of regional planning.

UNIT - 2 TECHNIQUES OF REGIONAL ANALYSIS

9

Input-output analysis - Shift and share analysis - Concentration and dispersal - Industrial location theory.

Socio-cultural context of a project, five entry points to social analysis of a project and how to do that, Use of social assessment methods: PRA, SARAR, etc,

UNIT - 3 GROWTH MODELS

9

Growth pole and growth center - Core periphery concept - Central place theory - Agricultural land use model - Models of industrialization and regional development - Resource allocation models.

UNIT - 4 REGIONAL DEVELOPMENT PATTERN

9

Regions in Indian Context: Resource Regions, Corridors as regions, National, subnational and State as a region, macro, meso and micro regions in India, Regional disparities - Resources in regional development - Multi-level planning - District planning - Special area development programmes and schemes - Rural development schemes.

UNIT 5 CASE STUDIES

9

Regional planning in India - Regional planning-National & International case studies. Research writing and analytical writing to be a part of Units I (Concept Of Regional Planning), II (Techniques Of Regional Analysis), III (Growth Models), IV (Regional Development Pattern), V (case studies) **Case Studies from India: NCR and Delhi Mega Region, Mumbai Mega Region.**

TOTAL: 45 PERIODS

REFERENCES:

1. Allen G.Noble, (Eds), 'Regional Development and Planning for the 21st Century: New Priorities and New Philosophies', Aldershot, USA, 1988.
2. Andy Pike, Andres Rodriguez-Pose, John Tomaney, 'Handbook of Local and Regional Development', Taylor & Francis, 2010
3. Chand Mahesh and U.K.Puri, 'Regional Planning in India', Allied Publishers, New Delhi, 1983
4. Dadao. Lu, Jie Fan, 'Regional Development Research in China: A Roadmap To 2050' Springer, 2010
5. David Mosse, 'Development Process: Concepts and Methods for Working with Complexity', Loutledge, London, 1998
6. Hamilton.F, (Ed), 'Industrialization in Developing and Peripheral Regions', Croom Helm, London, 1997
7. Isward Walter, 'Methods of Regional Analysis – An Introduction to Regional Science, MIT Press, Cambridge, 1960.
8. John Glasson, Tim Marshall, Tim Marshall, 'Regional Planning - Natural and Built Environment' Routledge, 2007
9. Roy Prodidpo and Patil BR (Eds), 'Manual for Block Level Planning Mcmillan Company India Limited, 1977.
10. Joseph Martial Ribeiro, 'International Development Projects: Appraisal, Execution Planning and Monitoring', Presses Internationals Polytechnique 2011,

	Semester II	Instruction hrs				Marks		
		L	T	P	C	CIA	ESE	TOTAL
18MPN203	Research Methodology	3	0	0	3	40	60	100

COURSE OBJECTIVE:

1. To develop a research culture among the students and study, use and understand appropriate methods in formulating problems and conduct surveys, analyze data and prepare a research report.
2. To develop critical thinking and research ability and apply the knowledge gained
3. Develop the data collecting and primary survey skills to provide exposure in research methodology
4. Understand the research operations
5. Develop knowledge on deterministic and probabilistic models in survey data analysis
6. To study about methods of data collection

COURSE OUTCOME:

1. Students are able to learn various methods and techniques on how to study and understand the problems of the urban and rural society in relation with environment
2. development skills to manage field work, data analysis and report working.
3. Understand the theoretical and practical significance of research
4. Types of research in formulating a research plan
5. Interpret and infer data from statistical analysis
6. They gain knowledge in report writing

UNIT I RESEARCH AND PLANNING

8

Research- definitions, types, purposes and application - Research as a way of thinking - Research processes and planning processes - Commonalities and differences between research processes and planning processes - Research design- definition, types, features, and Ideal Research design - Planning projects Vs research projects. [Research methods vs Methodology](#), [Types of research](#).

UNIT - 2 SOURCES OF DATA

8

Data and information - Access to Information-nature, types and sources. - Census and sample surveys and case studies - Secondary data sources and its availability in terms of form, time and reliability - Organizations - Primary data-types, sources and generation -Secondary data and Literature studies - Literature survey and formulation of theoretical framework – Hypothesis-definition, formulation and relevance to research studies

UNIT - 3 METHODS OF DATA COLLECTION

10

Observation–participant and non-participant techniques of observation, Preparation for field observation of people, buildings, places and activities. Merits and Demerits of observation - Interview-structured and unstructured interviews, telephone interviews, rapport building, merit and demerits of Interview - Questionnaire-mailed questionnaire - Formation of questions, sequencing and constructing questions, merits and demerits – Schedule - Difference between questionnaire and schedule - Administration of field survey- pre requisites and preparations.

UNIT - 4 DATA ANALYSIS

10

Criteria for analysis–descriptive and comparative - Processing raw data-coding, tabulating and illustrative - Secondary data analysis and primary data analysis and making interface between the two, [Measures of Central Tendency and Dispersion](#), [Time Series and Forecasting](#), Draw conclusions and interpretation of the analysis - Link interpretation to policy, design and planning.

UNIT 5 REPORT WRITING

9

[Structure and components of scientific reports](#) -[Types of report](#) -[Technical reports and thesis](#) - [Significance](#) - [Different steps in the preparation](#), [Layout, structure and Language of typical reports](#), - [Presentation](#) of graphs, tables, maps and illustrations - Citation, referencing and Indexing - Format for preparing bibliography - Production of report.

TOTAL : 45 PERIODS

REFERENCES

1. Burgess G. Robert, 'In the Field-An Introduction to Field', 1993.
2. Castells. M, 'The Urban Questions', English Edition, Edward Arnold.1977.
3. Dipak Kumar Bhattacharya, 'Research Methodology' Excel Books India, 2009
4. De Vaus. D.A., 'Surveys in Social Research', George Allen and Unwin, London, 1986.
5. Good and Hatt, 'Methods in Social Research', Macgrow Hill, New York, 1952.
6. Khan, J.A, 'Research Methodology' APH Publishing, 2011 25
7. Kothari C.R., 'Research Methodology- methods and Techniques, Wishwa Prakashan, New Delhi,1990.
8. Kumar Ranjit, 'Research Methodology- A Step by Step Guide for Beginners', Sage Publications, New Delhi, 2010.
9. Uwe Flick, 'Introducing Research Methodology: A Beginner's Guide to Doing a Research Project' SAGE, 2011 10.
- Young. Paul, 'Scientific Social Survey Research, Prentice Hall, New York, 1960.

	Semester II	Instruction hrs				Marks		
		L	T	P	C	CIA	ESE	Total
18MPN221	Planning Studio II	3	0	10	8	160	240	400

COURSE OBJECTIVE:

1. Ability to gain knowledge in social and economical, legal and political, environmental and physical, governance and management aspects of planning
2. Ability to gain knowledge in concepts, and theories, methods and techniques and social realities
3. To improve communication skills.
4. Ability to formulate a framework for study.
5. To study and analysis the problem and suggest a suitable solution.
6. To understand various practices and standards followed in planning

COURSE OUTCOME:

1. Ability to present and communicate their ideas
2. To create livable human settlements in rural, urban and regional areas.
3. Students are also exposed to build confidence and capacity to work in academic, professional, corporate and voluntary sector work environment towards preparation, execution, implementation and monitoring of planning assignments.
4. Ability to review, comprehend and report technological developments in the profession of planning
5. Ability to gain advanced knowledge in Planning practices by being exposed to multi disciplinary learning environment.
6. Ability to understand ethical and professional responsibilities.

The Planning Studio II attempts to train students in **the preparation of development plan** conceived within the framework of the approved perspective plan of a medium town having a plan period of 5 or 10 years.

The students are focused to learn to review and prepare plan for a medium urban settlement such as **Development Plan / Master Plan / Structure Plan**. The components such as

- Physical characteristics,
- Natural resources,
- Demographic characteristics,
- Economic base, employment,
- Shelter,
- Transportation,
- Social and infrastructure facilities,
- Finance,
- Institutional set-up etc. are to be learned.

Depending on the selection criteria an urban settlement would be selected and the information regarding the components stated above would be collected both form the primary and secondary sources and analyzed. St ockholders consultative meeting are also conducted during the field visit. A report / maps / charts are the media through which the case study is expected to be presented.

TOTAL: 180 PERIODS

	Semester II – Elective	Instruction Hrs				Marks		
		L	T	P	C	CIA	ESE	Total
18MPNE2A	Rural and urban housing	2	0	8	6	120	180	300

COURSE OBJECTIVE:

1. To study Urban and Rural Housing Policies and Programmes in India and the Developing World.
2. To introduce the basic premises for Policy Preparation and Content of various Housing Policies and Programmes.
3. To familiarize the students with the Real-World Issues and Evaluate Success and Failure of Policies and Programmes
4. Introduce different housing schemes for rural areas
5. Understand different models and theories in rural housing
6. To study about global housing scenario in rural and urban areas

COURSE OUTCOME:

1. The outcome of this course is to provide students with a comprehensive understanding of various housing policies in rural and urban housing scenario.
2. Understand norms and planning principles for rural communities
3. To learn about importance of community development and citizen participation
4. Impacts of large development in to the villages
5. Learn about the different construction techniques in rural housing
6. They learn about Various urban and rural housing programmes including the current JNNURM, RAY, Bharat Nirman, PURA, etc.

UNIT - 1 INTRODUCTION URBAN AND RURAL HOUSING POLICIES

15

Mutual dependence between urban and rural areas. Levels of living of rural people. Urban and Rural Housing Policies and its role in national development, objectives of policy in relation to settlement planning, basic components of housing policy and programmes formulation in urban and rural areas, housing policies in India and abroad, its impact and consequences on housing development,

UNIT - 2 HOUSING POLICIES

15

Housing policy and their focus in different developing and developed countries, their significance in provision of housing programmes for low-income groups, their formulation implementation and evaluation role of international and national funding agencies in housing programmes special housing programmes in different countries.

UNIT - 3 HOUSING IN RURAL

20

India Socio-economic profile of rural India and rural housing conditions-types of traditional building materials and construction methods, house types, rural housing norms, standards and design, access to infrastructure, rural health and sanitation, environmental improvement in villages, concept of integrated rural housing development, rural housing schemes, impact of large development projects and community development in rural areas, special needs for housing for tribal. **Planning principles for village and community norms.**

UNIT - 4 GLOBAL OVERVIEW

15

Review of urban and rural housing policies in various countries with particular focus on South East Asian countries **Rural energy issues, renewable and alternative resources of energy, ecological and environment considerations in rural development and village planning.**

UNIT 5 CASE STUDIES OF POLICIES AND PROGRAMMES

70

Various urban and rural housing programmes including the current JNNURM, RAY, Bharat Nirman, PURA, etc. Research writing and analytical writing to be a part of Units I (Introduction Urban And Rural Housing Policies), II (Housing Policies), III (Housing In Rural), IV (Global Overview), V (Case Studies Of Policies And Programmes)

TOTAL: 135 PERIODS

REFERENCES:

1. Government of India, National Urban Housing and Habitat Policy, 2007, Ministry of Housing and Urban Poverty Alleviation
2. Glaesar, Bernhard, Housing, Sustainable Development and Rural Poo,r 1995, Sage, New Delhi
3. Friedrichs, J, Affordable Housing and the Homeless, 1988, Walter de Gruyten & Co, Berlin
4. Rao, P.S.N., Urban Governance and Management, 2005, Kanishka Pub. and IIPA, New Delhi

	Semester II – Elective	Instruction Hrs				Marks		
		L	T	P	C	CIA	ESE	Total
18MPNE2B	Planning Legislation and Professional Practice	2	0	8	6	120	180	300

COURSE OBJECTIVE:

1. To make the students aware and understand the relevance of constitution and legislation in relation to spatial planning.
2. The course also facilitates students to experience implications of the existing legislations relating to planning and its importance and shortcomings.
3. The students are exposed to problems and prospects of town planning in terms of professional practice.
4. To study the inclusion in planning and development process
5. To review policies, programmes and legislation in planning
6. To study about the acts and rules of governing bodies

COURSE OUTCOME:

1. Knowledge acquired in various Acts/Laws relating to spatial planning will enable the students to apply them in professional practice as well as apply in their day to day life.
2. Orientation towards the significance of planning rules and regulations would help students to deal urban and regional planning issues within framework of human rights and environmental protection.
3. They know about the role of state and central in planning
4. Learn about the legislations related to urban planning and development
5. Understand the basic concept of law and Indian constitution acts, regulations related to urban planning
6. Gain knowledge in Professional role responsibility and planning consultancy service

UNIT I CONCEPT OF PLANNING LEGISLATION 30

The concept of law, **legislation, ordinance, bill, Act Regulation and by-laws, concept of Eminent Domain and Police Powers.** Indian constitution, national goals - Rights of ownership and development of property - Statutory control as a positive tool in plan preparation and implementation - Evolution, scope and significance of planning legislation - History and survey of development of planning legislation in India.

UNIT - 2 ACTS AND RULES GOVERNING LOCAL BODIES 30

Panchayat Act, Municipality Act, Corporation Act, TNULB Act, Provisions in the above acts related to functions, powers, role and responsibilities of local bodies including elected representatives and officers – The 73rd and 74th CAA and their implications on planning and development - Local government finance, revenue, expenditure and resource mobilization.

UNIT - 3 ACTS RELATED TO PLANNING AND IMPLICATIONS OF LAWS AND LEGISLATION ON DEVELOPMENT 30

Review of Town and Country Planning Act of Tamil Nadu, Urban Development Act, Public Health Act, Slum Improvement Act, **State Housing Board Act, and National Rehabilitation and Resettlement Policy (2007) - Social Impact mitigation, National Environmental Policy (2006).** Development management - Law relating to utilities and services - Implications of land ceiling, betterment levy and development charges - Concept of arbitration.

UNIT - 4 PROFESSIONAL PRACTICE 30

Professional role responsibility and planning consultancy service - Professional ethics-code of conduct and professional charge - Role of inter disciplinary group. Consultancy agreements, and contracts - Project proposals formulation - Changing professional practice in India and abroad.

UNIT 5 PROFESSIONAL INSTITUTIONS 15

Aim and objectives of professional institutions, Private and international town planning organizations - Institution buildings and setting up private practice and work, Career options and prospects – Case studies.

TOTAL: 135 PERIODS

REFERENCES:

1. Anil Chaturvedi, 'District Administration', Sage Publications India Pvt. Ltd, New Delhi, 1988.
2. Ashok Kumar Jain, 'Low Carbon City: Policy, Planning and Practice' Discovery Publishing House, 2009
3. B.I.S., 'National Building Code of India', ISI, New Delhi. 1980
4. C.K.Bikseswaran, 'The Madras Building (Lease and Rent Control Act), 1960, Sitaraman and Co., Madras.1964
5. Gopal Bhargava, 'Socio-economic and Legal Implications of Urban Land Ceiling and Regulations', Abhinav Publishing Company, New Delhi.1983
6. Government of Tamil Nadu, 'The Tamil Nadu Town and Country Planning Act, 1971, Govt of Tamil Nadu. 1976
7. Govt. of India, 'The Land Acquisition Act, Ministry of Housing and Urban Development, New Delhi. 1894
8. Joshi. A, 'Town Planning: Regeneration of Cities' New India Publishing, 2008
9. Patsy Healey, Robert Upton, 'Crossing Borders: International Exchange and Planning Practices' Routledge, 2010

	Semester II – Elective	Instruction Hrs				Marks		
		L	T	P	C	CIA	ESE	Total
18MPNE2C	GIS Modeling in Urban and Regional Planning	2	0	8	6	120	180	300

COURSE OBJECTIVE:

1. To train the candidate in building GIS models for urban and regional planning applications with hands on experience of spatial data, attribute data input and experiment with GIS analysis. Note: This is offered as a practical in the computer lab and does not involve setting of question paper as in theory paper.
2. Study the principles and applications of remote sensing
3. To study the sources of demographic data in GIS application
4. Study about automated mapping and facility management through GIS
5. Evolve ideas of land use suitability analysis
6. To study about the objectives and functions of GIS models in urban and regional planning

COURSE OUTCOME:

1. The outcome of this course is to provide students with a comprehensive understanding of the concepts, techniques, methods used by an urban planner to treat spatially cities by preparing urban land use models using GIS.
2. Learn about the data bases for different survey techniques
3. They learn about data tabulation and interpretation of data gathered
4. Automated maps and report generation using GIS mapping
5. They learn about Analytical planning Techniques and presentation
6. They learn about urban land use mapping

UNIT I INTRODUCTION

15

Definition, map and map analysis, automated cartography, history and development of GIS, Hardware requirement, system concepts, co-ordinate systems, standard GIS Packages. Classification of spatial and non-spatial data application of spatial data in urban and regional plans – objectives and functions of GIS models in urban and regional planning.

UNIT - 2 SPATIAL DATA INPUT

15

Defining the objectives of GIS planning problems. Identification of required spatial data layers – coding schemes – digitization of spatial data – editing spatial data usable for the given planning problem.

UNIT - 3 ATTRIBUTE DATA INPUT

15

Role of attribute data in defining geographic features – adding attribute data file – topology generation – Joining attribute data to its geographic features.

UNIT - 4 SPATIAL ANALYSIS USING GIS

15

Performing overlay functions – manipulating attribute data – GIS modeling, GIS data processing (Digitization , topology building and metadata creation), Data structures and modeling , GIS Analysis (Buffer , proximity and overlay)– map and report generation – case problems on regional analysis, impact assessment study, project formulation and land suitability analysis

UNIT 5 URBAN LAND USE MODELING

75

Need for model - Land suitability analysis, urban land use modeling, Change demand modeling, Transition potential modeling and land allocation modeling

TOTAL: 135 PERIODS

REFERENCES:

1. Brail K.R. 'Integrating GIS into Urban and Regional Planning. Alternative approaches for developing countries. Regional development Dialogue, Vol.11, No.3, UNCRD, Japan, 1990.
2. Cartwright T.J. 'Information Systems for Urban and Management in Developing Countries. The Concept and Reality, Computers, Environment and Urban Systems Vol.15, 1991.
3. David J. Maguire, Michael Batty, Michael F. Goodchild, 'GIS, spatial analysis, and modeling' ESRI Press, 2005
4. ERSI, 'Understanding GIS. The ARCI INFO. Methods, ERSI, USA. 1992
5. Fotheringham, Peter Rogerson, 'Spatial Analysis And GIS' CRC Press, 2004
6. Ian N. Gregory, Paul S. Ell 'Historical GIS: Technologies, Methodologies, and Scholarship' Cambridge University Press, 2007
7. Klosterman R.E., 'Micro Computer Packages for Planning Analysis', American Planning Association Journal, Autrenn, 1990.
8. Tomlin C.D., 'Geographic Information Systems and Cartographic Modeling, Prentice Hall, Englewood Cliffs, U.S.A. 1990.

	Semester II – Elective	Instruction Hrs				Marks		
		L	T	P	C	CIA	ESE	Total
18MPNE2D	Urban Development And Management	2	0	8	6	120	180	300

COURSE OBJECTIVE:

1. To comprehend the various Facets of Urban Development and Management.
2. To understand the how decisions pertaining to Supply of Land and Built Environment are taken.
3. To understand socio economic/political and technological forces and their consequences in urban settlements
4. To study various approaches to urban development and management
5. To know about the different factors affect urban development
6. Study about land and real estate development and its impact on supply and demand

COURSE OUTCOME:

1. To study the Processes and Management of Urban Planning and Development.
2. Learn about Regulations and laws related to urban development and planning
3. Gain knowledge on Land economics and land related policies
4. Develop skills in research writing
5. They learn about development-based information system and urban reforms
6. They learn about Real estate development

UNIT I INTRODUCTION TO DEVELOPMENT MANAGEMENT 30

Concept, approaches, components, interfaces with national goals and political economic system. [Land Economics, Land Policy and Land Markets](#)

UNIT - 2 URBAN DEVELOPMENT MANAGEMENT 30

Strategies, Tools and Techniques; organizations involved.

UNIT - III LAND AND REAL ESTATE (PART 1) 30

Development Economic concepts of land, Land Pricing / valuation; Economic principles of land use; demand forecasting for land use: factors affecting land supply and demand; Land development methods, [Supply Side Management- Property Rights, Land Development. Demand Side Management- Income elasticity of land, business cycles and its impact;](#)

UNIT - 4 LAND AND REAL ESTATE (PART 2) 30

Real estate markets, type of property development and its impact on supply and demand, method of development, environmental considerations.

UNIT 5 INFORMATION SYSTEM AND URBAN REFORMS 15

[Land Information System \(LIS\): Land records in rural areas \(examples from Karnataka, Andhra, etc\), transparency in land transaction, methods of publicizing land prices and land price monitoring.](#) Spatial and Non - spatial information systems; Urban reforms and acts and policies.

Research writing and analytical writing to be a part of Units I (Introduction To Development Management), II (Urban Development Management), III (Land And Real Estate (Part 1)), IV (Land And Real Estate (Part 2)), V (Information System And Urban Reforms)

TOTAL: 135 PERIODS

REFERENCES

1. Rakodi, C. and Llyod-Jones, T. Urban Livelihoods: A PeopleCentered Approach to Reducing Poverty. 2002 Earthscan, London
2. Datta, A. The Illegal City: Space, Law and Gender in a Delhi Squatter Settlement 2012 Ashgate, Burlington
3. Roy, A. and Ong, A. (eds.) Worlding Cities: Asian Experiments and the Art of Being Global 2011 Wiley Blackwell, London

	Semester II – Elective	Instruction Hrs				Marks		
		L	T	P	C	CIA	ESE	Total
18MPNE2E	Inclusive urban planning	2	0	8	6	120	180	300

COURSE OBJECTIVE:

1. To study Significance of Inclusion in Planning and Development Process.
2. To study Policies, Programmes and Legislation for Participatory Planning.
3. To study about the informal sectors and contribute inclusive planning in their development
4. Understand about different communities and societies involved in different settlement structures
5. Introduce citizen participation in inclusive planning
6. To study about Different social groups and weaker sections

COURSE OUTCOME:

1. To study the various Forms, Arenas and Uses of Inclusion in the Processes of Urban and Regional Planning.
2. Learn about importance of citizen participation in developing inclusive communities
3. Different approaches in participatory planning and processes
4. Understand the equal opportunities in accesses infrastructure provision of all communities
5. Learn about the linkage's aspects in communities growth
6. They learn about informal settlements and their infrastructure accessibility

UNIT I UNDERSTANDING INCLUSIVE URBAN PLANNING 15

Inclusive Planning – Definitions, components and Needs, Unsustainable current planning practices,

UNIT - 2 STAKEHOLDERS PROFILE AND NEEDS, ACCESS TO SHELTER, SERVICES AND LIVELIHOODS (PART 1) 30

Identification and characteristics of Social Groups and Weaker Sections - Urban Poor, Informal Sector, Gender, Children, Elderly, Disabled, Displaced people, etc..

UNIT - 3 STAKEHOLDERS PROFILE AND NEEDS, ACCESS TO SHELTER, SERVICES AND LIVELIHOODS (PART 2) 30

Informal sector - growth, characteristics, functions, economic contributions, linkages with formal sector, impact on Urban Development. Slums - dimensions, causative factors, determinants.

UNIT - 4 PARTICIPATORY PLANNING & POLICIES, PROGRAMMES & LEGISLATION 30

Analyzing the Current Legal and Regulatory Environment w.r.t PP. Methods, role of stakeholders participation (including civil society organizations), etc.; Related Acts, Five year plans, policies and programmes at various levels.

UNIT 5 PLANNING INTERVENTIONS 30

Inclusive zoning, development and building regulations, Slum Improvement. Research writing and analytical writing to be a part of Units I (Understanding Inclusive Urban Planning), II (Stakeholders Profile And Needs, Access To Shelter, Services And Livelihoods (Part 1)), III (Stakeholders Profile And Needs, Access To Shelter, Services And Livelihoods (Part 2)), IV (Participatory Planning Process And Policies, Programmes And Legislation), V (Planning Interventions)

TOTAL : 135 PERIODS

REFERENCES

1. Datta, A., The Illegal City: Space, Law and Gender in a Delhi Squatter Settlement, 2012, Ashgate, Burlington.
2. Roy, A. and Ong, A. (Eds.), Worlding Cities: Asian Experiments and the Art of Being Global, 2011, Wiley Blackwell, London.
3. Eijk, G.V., Unequal Networks: Spatial Segregation, Relationships and Inequality in the City, 2010, IOS Press, Amsterdam.
4. Harriss, J., Antinomies of Empowerment: Observations on Civil Society, Politics and Urban Governance in India, Economic and Political. 2007

	Semester III	Instruction hrs				Marks		
		L	T	P	C	CIA	ESE	TOTAL
18MPN301	Environmental Planning	3	0	0	3	40	60	100

COURSE OBJECTIVE:

1. Environmental planning plays a vital role in balancing the needs of society by creating and carrying out programs, policies and regulations which consider the current and future impact of human development on the natural environment.
2. This course will expose you to conceptual tools for understanding the two principal avenues through which the natural and built environment are managed – the rule –making procedures of environmental policy and the future-imaging of environmental planning.
3. To study about the environmental issues such as open spaces, encroachments etc
4. To develop knowledge about sustainable environmental planning
5. To evaluate the existing policy framework and the environment
6. Study about different concepts and measures in environmental standards

COURSE OUTCOME:

1. The outcome of this course is to provide the students with professional knowledge, skills and techniques necessary to plan, manage and maintain a balanced, sustainable and productive environment.
2. They learn about different environmental impacts in India
3. Earn knowledge in developing sustainable urban planning and environment goals
4. Gain knowledge in global environmental initiatives
5. To Develop strategies for environmentally sustainable infrastructure development
6. They learn about Mitigation measures in environmental management plan

UNIT I DEVELOPMENT CONSEQUENCES ON ENVIRONMENT

9

Introduction to Environmental planning, aims, objectives and Implementation. Components of environment – Classification of environmental resources - Purpose and objectives in environmental protection, planning and management – Consequence of development over urban and rural settlements – Environmental concerns at local, regional and global levels.

UNIT - 2 ENVIRONMENTAL MANAGEMENT AND STANDARDS

6

Environment planning theories and their applications. Institutional and legal support in management of environment – Environmental policies, and protocols - Global environmental initiatives - Environmental Indicators - Concepts and measures in environmental standards

UNIT - 3 ENVIRONMENTAL IMPACT ASSESSMENT

9

Overview of environmental impact assessment practice in India - Types, conceptual approach and phases of EIA – Impact identification methodologies – Prediction and assessment of social, cultural and economic environments

UNIT - 4 ENVIRONMENTAL DECISION MAKING

9

Generation and evaluation of alternatives – Decision methods- **Multicriteria decision analysis** – Mitigation and environmental management plan, **Environmental protection international and national agencies and legislation, Environmental policies for various geographical regions.** Public participation in the process of environmental decision making process.

UNIT 5 ENVIRONMENTAL APPROACH IN PLANNING

12

Environmental concepts – Sustainability and environmental carrying capacity – Environmental strategies in land use, transportation, infrastructure planning and management - Legislative requirements, public awareness and community participation – Environmental management options. Urban and rural housing. **Economic measures of sustainable development.**

TOTAL : 45 PERIODS

REFERENCES:

1. Aresh Kumar Maitra, 'Urban Environment in Crisis', New Age International (P) Limited, Publishers, New Delhi. 1998.
2. Avijit Gupta and Mukul G. Asher, 'Environment and the Developing World', John Wiley & Sons, New York, USA. 1997.
3. Charles H. Eccleston, 'Environmental Impact Assessment: A Guide to Best Professional Practices' CRC Press, 2011
4. Charles H. Eccleston, NEPA and Environmental Planning: Tools, Techniques, and Approaches for Practitioners, CRC Press, 2010
5. Jerzey A. Filar, Alain Haurie, 'Uncertainty and Environmental Decision Making' Springer, 2010
6. Charles H. Eccleston, 'Environmental Impact Assessment: A Guide to Best Professional Practices' CRC Press, 2011
7. Charles H. Eccleston, NEPA and Environmental Planning: Tools, Techniques, and Approaches for Practitioners, CRC Press, 2010
8. Jerzey A. Filar, Alain Haurie, 'Uncertainty and Environmental Decision Making' Springer, 2010
9. Larry W. Canter, 'Environmental Impact Assessment', McGraw-Hill, Inc., New York, 1996
10. Pannirselvam R and Karthikeyan, 'Environmental Impact Assessment' SPGS Publishers, Chennai. 2005.
11. Rao P.K, 'Sustainable Development', Blackwell Publishers, Massachusetts, USA. 2001.

	Semester III	Instruction hrs				Marks		
		L	T	P	C	CIA	ESE	TOTAL
18MPN302	Project Formulation and Implementation	3	0	0	3	40	60	100

COURSE OBJECTIVE:

1. This course aims at examining techniques and procedures relevant for project planning and implementation in developing countries, including project identification, feasibility analysis, design and implementation monitoring.
2. It also considers how to evaluate economic and distributive effects of completed or ongoing infrastructure development projects.
3. Specific attention has been given to show how institutional setting and other practical influences affect the use of conventional analytical tools.
4. To study relationship between projects and planning at various levels
5. To study about Management, implementation and evaluation of projects
6. To understand organizational aspects in project management

COURSE OUTCOME:

1. Plan identifies projects and the success of plans depends on Implementation of identified projects.
2. In this context, students will develop knowledge on important aspects of project formulation, criteria for project appraisal and project management.
3. They learn about project monitoring
4. The resource management for project funding, operation and maintenance
5. Learn about preparing feasibility reports for project planning
6. Presentation skill development

UNIT I INTRODUCTION TO PROJECT FORMULATION

9

Introduction to project management, (Definition, Need / Benefits, Achieve business objective, Role of project manager, , Integrative approach, Process group). Overview of the project cycle – Planning process and project planning – Search for project ideas – Strategies in capital allocation - Key elements in project formulation – Methods and tools for project formulation – Project identification and selection.

UNIT - 2 PROJECT ANALYSIS

9

Preparation of feasibility reports, Capital cost estimation - Market and demand analysis – Technical analysis – Environmental analysis – Financial and economic analysis – Cash flow generation.

UNIT - 3 PROJECT APPRAISAL

10

Time and value of money – Investment criteria-internal rate of return, net present value, costbenefit analysis, and social cost benefit analysis – Project risk analysis – Appraisal of marketing strategy - Pricing and credit worthiness and management capabilities. Developing Project Plan (Evaluating and Constructing network, Schedule, Criticality, Gantt Charts, Techniques)

UNIT - 4 PROJECT FINANCING AND IMPLEMENTATION

9

Funding options for urban development projects - Tender procedure- Tamil Nadu transparency in tender rules - Organizational aspects in project management – Network techniques for project management.

UNIT 5 PROJECT MONITORING AND EVALUATION

8

Need and techniques for monitoring – Performance and process monitoring – Monitoring schedules. Research writing and article writing stating case studies.

TOTAL :45 PERIODS

REFERENCES:

1. Gudda, 'A Guide to Project Monitoring and Evaluation' Author House, 2011
2. Gray F.Cilfford, Larsen W Erik, Desai V. Gautam, "Project Management" Tata McGraw Hill Edition, New Delhi, 2010.
3. Henderson PD, 'Investment Criteria for Public Enterprises, Penguin Books, New Delhi 1999.
4. Michael Bambarger and Eleanor Hewitt, 'Monitoring and Evaluating, Urban Development Programmes: A Hand Book for Program Managers and Researchers, The World Bank. 1988.
5. Kurowski Lech, David Sussman., "Investment Project Design- A Guide to Financial and Economic Anaysis with Constraints" John Wiley & Sons publications. 2011
6. Prasanna Chandra, 'Projects', Tata McGraw-Hill Publishing Company Limited, New Delhi, 2009
7. Raghuram G, Rekha Jain, SidharthSinha, PremPangotra and Sebastian Morris, 'Infrastructure Development and Financing, Macmillan India, Delhi, 2000
8. Samuel Mantel, Jack Meredith, Scott Shafer, 'PROJECT MANAGEMENT CORE TEXTBOOK' John Wiley & Sons, 2006
9. Warren C. Baum, 'The Project Cycle', World Bank – Economic Development Projects, Washington, 1993.

	Semester III	Instruction hrs				Marks		
		L	T	P	C	CIA	ESE	Total
18MPN321	Planning Studio III	3	0	10	8	160	240	400

COURSE OBJECTIVE:

1. Ability to gain knowledge in social and economical, legal and political, environmental and physical, governance and management aspects of planning
2. Ability to gain knowledge in concepts, and theories, methods and techniques and social realities
3. To improve communication skills.
4. Ability to formulate a framework for study.
5. To study and analysis the problem and suggest a suitable solution.
6. To understand various practices and standards followed in planning

COURSE OUTCOME:

1. Ability to present and communicate their ideas
2. To create livable human settlements in rural, urban and regional areas.
3. Students are also exposed to build confidence and capacity to work in academic, professional, corporate and voluntary sector work environment towards preparation, execution, implementation and monitoring of planning assignments.
4. Ability to review, comprehend and report technological developments in the profession of planning
5. Ability to gain advanced knowledge in Planning practices by being exposed to multi disciplinary learning environment.
6. Ability to understand ethical and professional responsibilities.

Elaboration of the principals and techniques adopted and learnt themes and planning projects.

Application of themes and techniques of planning in the preparation of development plans at regional, district, blocks, central village and village level, along with community action and participation plans. Review regional plan contents, methods and practices at local, national and international levels.

Studies and analysis would consist of survey, local renewable development, settlement distribution pattern, environmental protection, institutional and implementation framework. Conducting Stake holders meeting to assess the community needs becomes very important input for the preparation of development plans. Identification of projects programmes and schemes with funding sources.

TOTAL: 150 PERIODS

	Semester III	Instruction Hrs				MARKS		
		L	T	P	C	CIA	ESE	TOTAL
18MPN322	Dissertation	3	0	6	6	120	180	300

COURSE OBJECTIVE:

1. Ability to gain knowledge in social and economical, legal and political, environmental and physical, governance and management aspects of planning
2. Ability to gain knowledge in concepts, and theories, methods and techniques and social realities
3. To improve communication skills.
4. Ability to formulate a framework for study.
5. To study and analysis the problem and suggest a suitable solution.
6. To understand various practices and standards followed in planning

COURSE OUTCOME:

1. Ability to present and communicate their ideas
2. To create livable human settlements in rural, urban and regional areas.
3. Students are also exposed to build confidence and capacity to work in academic, professional, corporate and voluntary sector work environment towards preparation, execution, implementation and monitoring of planning assignments.
4. Ability to review, comprehend and report technological developments in the profession of planning
5. Students to get opportunities to publish research paper, display exhibits, present papers in conferences and seminars.
6. Ability to gain advanced knowledge in Planning practices by being exposed to multi disciplinary learning environment.
7. Ability to understand ethical and professional responsibilities.

Dissertation is a formal report written systematically on a particular topic as related to town and country planning. This exercise is taken up as to widen and enrich the literature pertaining to a topic of research. It may focus upon cross section of literature of a topic of research. The material written systematically may be useful in fourth semester when the same topic with literature reviewed systematically be confined as a part of thesis. Also the outcome of literature review done during the dissertation could be helpful to formulate the Thesis during the IVth semester.

TOTAL: 105 PERIODS

	Semester III	Instruction hrs				Marks		
		L	T	P	C	CIA	ESE	TOTAL
18MPNE3A	Environmental Design	3	0	0	3	40	60	100

COURSE OBJECTIVE:

1. To understand Approach to Environmental Design as applicable to Built Environment and Landscape Development.
2. To study Urban Climatology and Effects of Climate Change on City Planning.
3. To study about the concepts of urban ecology and sustainable growth practice
4. Evaluate the influence of climate change in designing cities
5. Study of environmental theories and practice
6. To study about urban forest management

COURSE OUTCOME:

1. To study Evolution of Environmental Design, Theory and Practice.
2. Learn about different climatic based design and practices
3. Application of sustainable principles in reducing energy in urban infrastructure
4. Understand the different climate change and its mitigation measures
5. Gain knowledge on different concepts of urban ecology
6. They learn about Acoustics and climate change

UNIT – 1 EVOLUTION OF ENVIRONMENTAL DESIGN, THEORY AND PRACTICE 15

Design as a determinant of Environmental quality; evolution of Environmental design, theories and practice of design.

UNIT – 2 APPROACH OF ENVIRONMENTAL DESIGN AS APPLICABLE TO BUILT ENVIRONMENT (Part 1) 30

Criteria of Urban Environmental design issues-pedestrian-vehicular conflict, City Centre Environment, Housing areas, dereliction, environmental upgradation programmes; built environment aesthetics of ensemble of buildings, techniques of study of building condition, conservation aspects of built-up areas. Environmental approaches to design and planning of rural settlements, use of alternate technology in design of human settlements.

UNIT – 3 APPROACH OF ENVIRONMENTAL DESIGN AS APPLICABLE TO LANDSCAPE DEVELOPMENT (Part 2) 20

Landscape as an environmental asset, techniques of landscape assessment at different levels, use of landscape design for environmental improvement. **Green Spaces, bio-diversity conservation and conflicts**

UNIT – 4 URBAN CLIMATOLOGY, ACOUSTICS AND CLIMATE CHANGE 20

Urban climatology, effects of thermal pollution, factors causing heat sink effects, direct radiation, climatic effects on Urban areas, control techniques Urban acoustics:- source of noise, methods of control, design techniques.

UNIT – 5 URBAN CLIMATOLOGY, ACOUSTICS AND CLIMATE CHANGE II 20

Climate Change and City Planning, application of Energy code, Clean Development Mechanism. Research writing and analytical writing to be a part of Units I, II, III, IV, V

TOTAL : 105 PERIODS

REFERENCE BOOKS:

- 1 Fabio Giudice, Guido La Rosa, Fabio Giudice, Guido La Rosa, AntoninoRisitano Product Design for the Environment: A Life Cycle Approach 2006 Taylor and Francis Group
- 2 Amos Rapoport Meaning of the Built Environment: A Non-Verbal Communication Approach 1990 Sage Publications, USA
- 3 Leonard J. Hopper Landscape Architectural Graphic Standards 2007 John Wiley and Sons
- 4 Mat Santamouris Environmental Design of Urban Buildings: An Integrated Approach

	Semester III	Instruction hrs				Marks		
		L	T	P	C	CIA	ESE	TOTAL
18MPNE3B	Environmental Impact Assessment	3	0	0	3	40	60	100

COURSE OBJECTIVE:

1. To study Assessment of Impacts on Resources.
2. To Assess the Role of Public Participation in EIA.
3. To impart knowledge on environmental impact assessment and environmental management
4. Evaluate the acts and policies related to environmental impact assessments
5. Introduce different applications for appropriate techniques in assessing impact data
6. to study about constitutional provisions and policy regulation

COURSE OUTCOME:

1. To study Role, Definition, Scope and Methods of EIA.
2. Carryout scope in environmental projects and social awareness
3. Gain knowledge on different methodologies for environmental impact prediction and assessment
4. Enhance writing skills on environment reports
5. Obtain knowledge on environment management plans
6. They learn about impacts on resources

UNIT – 1 ROLE, DEFINITION AND SCOPE OF EIA 10

Concept of Environment, Concept of EIA - Definition and need, evolution and objectives, tasks and scope. EIA: Origin and Development, Evolution of EIA in India: Constitutional Provisions and Policy Regulations. Role of EIA in the Planning and decision making process.

UNIT – 2 METHODS OF EIA 10

Methods of EIA; advantages and limitations. Screening and Scoping, Baseline Studies for EIA,

UNIT – 3 ASSESSMENT OF IMPACTS 10

Assessment of impacts on resources (Including air, water, flora and fauna); assessment of impacts on Land use. Assessment of social and health impacts. Assessment of development projects (including roads, industries, housing, townships etc.).

UNIT – 4 STRATEGIC ENVIRONMENTAL ASSESSMENT 15

Policy environmental assessment, Public Participation in EIA; definition and concepts, objectives, techniques, advantages and limitation, PRA techniques.

UNIT – 5 CASE STUDIES 60

Prepare, Review and analysis of an EIA for eco sensitive area. Research writing and article writing with case studies

TOTAL: 105 PERIODS

REFERENCE BOOKS:

1. Asian Development Bank Environmental Impact Assessment for developing Countries in Asia Vol. I and II. 1997 ADB Publication
2. L.W. Canter Environmental Impact Assessment 2nd Edition 1996 McGraw Hill, New York
3. R.R. Barthwal Environmental Impact Assessment 1998 New Age International Publishers
4. R. Dale Evaluating Development Programme and Project 2nd Edition 2004 Sage Publication
5. A.K. Srivastava Environment Impact Assessment 2003 A.P.H. Publish

	Semester III	Instruction hrs				Marks		
		L	T	P	C	CIA	ESE	TOTAL
18MPNE3C	Environmental legislation, evaluation and practices	3	0	0	3	40	60	100

COURSE OBJECTIVE:

1. To familiarize students about various Acts related with Environment Protection.
2. To familiarize students about Ministry of Environment and Forest Guidelines, Notifications and Rules related with Environment Protection and Management.
3. Evaluate the different roles and responsibilities different institutions
4. To study the different regulations and bye laws related to environment legislation
5. To know about the importance of community participation in policy planning
6. To study about the planning legislation

COURSE OUTCOME:

1. Common rules and laws protecting environment
2. Legislative measures to address climate change and impacts
3. Roles and responsibilities of state and central government organization
4. To gain knowledge on land development controls
5. To formulate and contribute new rules to the planning legislative acts
6. They gain knowledge about planning legislation

Contents

UNIT 1 ENVIRONMENTAL LEGISLATION (Part 1)	20
Introduction to Law (Indian Constitution, Evolution of Environmental Laws in India). EP Act 1986., Air (Prevention and Control of pollution) Act., Water (Prevention and Control of pollution) Act,	
UNIT 2 ENVIRONMENTAL LEGISLATION (Part 2)	20
Environment Tribunal Act, Climate change Protocols and Conventions, MOEF Guidelines and Notifications, Appellate Authority Act, Other related Notifications	
UNIT 3 PLANNING LEGISLATION (Part 1)	20
Indian Forest Act., Wildlife Act	
UNIT 4 PLANNING LEGISLATION (Part 2)	20
Ancient Monuments and Archaeological Sites and Remains Act., Hazardous Waste Management and Handling Rules / Biomedical Rules / Solid Waste	
UNIT 5 RESEARCH WRITING AND CASE STUDIES	25
Case studies, Research writing and article writing for Units I, 2, 3, 4 and 5	
TOTAL : 105 PERIODS	

REFERENCE BOOKS:

1. Shyam Divan, Armin Rosencranz Environmental Law and Policy in India Second edition, 2001 Oxford University Press (India)
2. Jane Holder and Maria Lee Environmental Protection, Law and Policy Second edition, 2007 Cambridge University Press
3. Gadgil M. and Guha R. Ecology and Equity 1995 Oxford, New Delhi
4. Upadhyay S. and Upadhyay V. Book on Environmental Law- Forest Laws, Wildlife Laws and the Environment; Vols. I, II and III, 2002 Lexis Nexis- Butterworths India, New Delhi.
5. Choudhuri, S.K. Environmental Legislation in India Latest Edition Oxford QIBH Pub. Co.
6. Bedi, R.S. and Bedi, A.S. Encyclopedia for Environment and Pollution Laws Latest Edition Orient Law House

	Semester III	Instruction hrs				Marks		
		L	T	P	C	CIA	ESE	TOTAL
18MPNE3D	Web based applications to urban and regional planning	3	0	0	3	40	60	100

COURSE OBJECTIVE:

1. This course is designed based on advanced applications, and the candidates are expected to be through in INTERNET, Windows / NT OS, HTML etc.)
2. Students to gains insights and understanding of e- governance.
3. To teach the student the working and process followed in Governance.
4. To keep the students in touch with the recent updates in the industry.
5. To train the candidate in the use of web for urban and regional planning applications
6. To train them to build case based web development.

COURSE OUTCOME:

1. As an outcome of the above course the students will have the ability to independently develop web based solutions for the application of urban and regional planning.
2. Ability to gain knowledge in social and economical, legal and political, environmental and physical, governance and management aspects of planning and create livable human settlements in rural, urban and regional areas.
3. Students are also exposed to build confidence and capacity to work in academic, professional, corporate and voluntary sector work environment towards preparation, execution, implementation and monitoring of planning assignments.
4. Ability to gain knowledge in concepts, and theories, methods and techniques and social realities
5. Ability to review, comprehend and report technological developments in the profession of planning
6. Ability to gain advanced knowledge in Planning practices by being exposed to multi disciplinary learning environment.

ROLE OF WEB BASED TECHNOLOGY IN PLANNING

70

Introduction to Web Applications, Web Applications Frameworks, Managing Data, Middleware, The User Interface
Information need and the role of web in planning – Public participation – Information transparency – Current trends.

INFORMATION DISSEMINATION THROUGH INTRA AND INTERNET

15

Knowledge sharing – e- Governance – Information kiosks – Digital planning

PLANNING INFORMATION ACROSS INTERNET

20

Web sites and information sources in urban and regional planning . .

TOTAL: 105 PERIODS

REFERENCES:

1. Abbate J., 'Inventing the Internet', MIT Press: Cambridge, MA.. 1999
2. Arnum E. & Conti S., 'INET'98: The Internet Summit,, Geneva, Switzerland, 1998
3. Carriere J. & Kazman R., 'Sixth International World Wide Web Conference. 1997.
4. Dodge, M & Kitchin, R., 'Atlas of Cyberspace', Addison-Wesley, London. 2001
5. Downey G, 'Technology and Culture', Vol. 42, No. 2, pages 209-235. 2001
6. Graham S. & Marvin S., 'Telecommunications and the City: Electronic Spaces, Urban Places', Rutledge : London 1996
7. Kim T.J., 'Expert systems : Applications to Urban Planning, Springer- Verleg, New York, 1999
8. www.esri.com and number of such sites as and when developed would be used as the resource for the course.
9. www.infocity.com

	Semester III	Instruction hrs				Marks		
		L	T	P	C	CIA	ESE	TOTAL
18MPNE3E	Planning for tourism	3	0	0	3	40	60	100

COURSE OBJECTIVE:

1. To study Tourism and its Relevance in Urban Development.
2. To study Policies and Programmes of Tourism so as to ascertain parameters for Planning for Tourism Sector.
3. Evaluate the relationships between tourism and urban development
4. Basic awareness of the importance of tourism and its impact on urban development
5. To study about the Tourism policies at various levels
6. To study about impacts in the tourism development

COURSE OUTCOME:

1. To study the Role of Tourism in Urban and Regional Planning.
2. Scope and evolution of tourism development in India
3. Strategic action plans for tourism in India
4. Policies related to tourism development
5. Development of sustainable tourism measures
6. They learn about National level tourism policies and programs

UNIT I INTRODUCTION TO TOURISM

9

Introduction, the concept of tourism, New concept of tourism, Definitions, scope, nature, classification and tourism as an industry, tourism in developed and developing world.

UNIT - 2 TOURISM SECTOR – IMPACTS

9

Rationale for planning tourism, the tourism planning process, Levels of tourism planning Relationship between Tourism and Urban Development, Tourism multiplier and forecasting methods: capacity building and carrying capacity planning for tourism projects, tourism and cultural and social change: Socio-cultural problems, environmental degradation.

UNIT - 3 PLANNING FOR TOURISM (PART 1)

9

Evolution of tourism planning, Significance of tourism planning, Nature and scope of a tourism plan- key issues and stages, data requirements, surveys, role of key players / stake holders in tourism policy and planning, sustainable tourism development planning;

UNIT - 4 PLANNING FOR TOURISM (PART 2)

9

Introduction to sustainable tourism planning, planning for sustainable tourism development, Components of sustainable tourism planning, Stakeholders networking model for sustainable tourism development, Community planning and tourism; implementation and management, role of travel and tourism promoting agencies, monitoring the tourism development; Tourism marketing - concept, techniques and strategies.

UNIT 5 POLICIES AND PROGRAMMES

9

Introduction, Recommendations of the National Level Tourism Policies and Programs - Various Committees on Tourism. Research and journal article writing for Units I (Introduction To Tourism), II (Tourism Sector – Impacts), III (Planning For Tourism (Part 1)), IV (Planning For Tourism (Part 2)), V (Policies And Programmes)

TOTAL: 105 PERIODS

REFERENCES:

1. Charles R. Goeldner , J. R. Brent Ritchie, Tourism: Principles, Practices, Philosophies, 2009, John Wiley & Sons
2. A. SatishBabu, Tourism Development in India, 2008, APH Publishing Corporation , New Delhi
3. Christopher M Law, Urban Tourism: The Visitor Economy and the Growth of Large Cities, 2009, Continuum
4. K.K. Sharma, Planning for Tourism, 2003, Sarup & Sons, New Delhi
5. Planning Commission Working Group Report on Tourism (2012-2017), 2012, Planning Commission, Government of India
6. Ministry of Tourism Strategic Action Plan for Tourism in India, 2011, Ministry of Tourism, Government of India

	Semester IV	Instruction hrs				Marks		
		L	T	P	C	CIA	ESE	TOTAL
18MPN401	Urban Governance and institutional Management	3	0	0	3	40	60	100

COURSE OBJECTIVE:

1. To make students understand the governance systems of urban and rural local government with respect to the role, structure and functions of planning agencies.
2. To understand the organizational change and management principles and its application to planning and implementing organization in the context of urban and rural development management.
3. To study the role of government, private sector and third sector for governance of cities and regions
4. To study about the Role of states in urban and regional planning at national ,state and local levels
5. To study the decision making processes and organizations responsible for the planning, finance and delivery
6. To understand essential concepts in regional and metropolitan planning

COURSE OUTCOME:

1. Students are able to understand the government system and its governance processes.
2. The understanding from the lessons develops leadership qualities and motivational skills in turn build confidence in doing things.
3. Understand the role of participatory governance in urban development
4. Learn about Risks involved in urban development
5. Gain knowledge about e-governance
6. They learn about e governance and municipal finance

UNIT I INTRODUCTION: BASIC CONCEPT & LEGAL PROVISIONS

7

Introduction to Urbanization, Introduction to Urban Governance, Constitutional provisions, Legislative provisions,

UNIT - 2 URBAN AND METROPOLITAN PLANNING

10

Urban reform and managing change, Visioning for the city, Resolving conflicts in change management, Leadership and teambuilding.

UNIT - 3 GOVERNANCE TO E-GOVERNANCE

7

E-Governance-concepts, theories and practices - e-Governance indices-technology, legal, organizational and community related aspects of e-governance - Description to Institution and Institutional development - e-Governance efforts in India and abroad - e-Readiness indices and e-Governance

UNIT - 4 URBAN ISSUES AND RISK MANAGEMENT

12

Housing strategy for cities, Housing and urban poverty, Real estate regulation and development, Urban land management, Urban risk and disaster management, Managing urban environment.

UNIT 5 PARTICIPATORY GOVERNANCE AND URBAN DEVELOPMENT

9

Role of City Managers, Self Development for City Managers People's participation-theories, concepts and methods - Participatory governance-meaning, processes and methods - Role of people's participation in planning processes - People, NGO and civil society and urban development - Public relations-concepts types, methods and planning public relations - Best practices - national and international on participation, infrastructure and urban development. Research and analytical article writing for Units I (Urban Governance), II (Local Government Administration And Management), III (Governance To E-Governance), IV (Organization And Management), V (Participatory Governance And Urban Development)

TOTAL: 45 PERIODS

REFERENCES:

1. Deiric O Broin, 'Politics, Participation and Power' Glasnevin Publications, Dublin, 2013.
2. Gavin Shatkin (Ed), Contesting the Indian City: Global Vision and the Politics of the Local, Wiley Blackwell UK, 2013.
3. Ganguli, 'Structure and Processes of Organization' Allied Publications Pvt. Ltd, New Delhi. 1983.
4. Jain R.B, 'Public Administration in India, 21st Century Challenges for Good Governance', Deep & Deep Publications, Delhi. 2001. 18
5. John Abbott, 'Sharing the City: Community Participation in Urban Development', Earthscan, London. 1996.
6. Richard O'Dohanty, 'Planning, People and Preferences', Arebury, USA 1999.
7. Ishwar Dayal, 'Organization for Management in Developing Countries', Concept Publishing Co. New Delhi. 1983.
8. Manoj Sharma, 'Local Government Rural and Urban', Anmol Publications, New Delhi. 2004.
9. Martin Boddy. 'Urban transformation and urban governance: shaping the competitive city of the future' The Policy Press, 2003.
10. Mathur Om Prakash 'India: The Challenge of Urban Governance' Centre for Urban & Comm. Studies, Univ. of Toronto, 1999.
11. Maria Pinto, 'Metropolitan City Governance in India', Sage Publications, New Delhi. 1999.
12. Prasad B.K, 'Urban Development New Perspective', Sarup and Sons, New Delhi, 2003.
13. Melin Bulu, 'City Competition and Improving Urban Subsystem: Technology and Application, IGI Global Publicatio, London 2012.

	Semester IV	Instruction hrs				Marks		
		L	T	P	C	CIA	ESE	TOTAL
18MPN421	Thesis (Viva Voce)	4	0	28	18	320	480	800

COURSE OBJECTIVE:

1. Ability to gain knowledge in social and economical, legal and political, environmental and physical, governance and management aspects of planning
2. Ability to gain knowledge in concepts, and theories, methods and techniques and social realities
3. To improve communication skills.
4. Ability to formulate a framework for study.
5. To study and analysis the problem and suggest a suitable solution.
6. To understand various practices and standards followed in planning

COURSE OUTCOME:

1. Ability to present and communicate their ideas
2. To create livable human settlements in rural, urban and regional areas.
3. Students are also exposed to build confidence and capacity to work in academic, professional, corporate and voluntary sector work environment towards preparation, execution, implementation and monitoring of planning assignments.
4. Ability to review, comprehend and report technological developments in the profession of planning
5. Ability to gain advanced knowledge in Planning practices by being exposed to multi disciplinary learning environment.
6. Ability to understand ethical and professional responsibilities.

Students shall be required to undertake thesis work in the areas of relevance and concern in the urban and regional development process. The broad areas of study would include

1. Planning for region, urban development and renewal
2. Planning for infrastructure development
3. Urban governance, management and finance
4. Environmental and sustainable development
5. Housing, heritage conservation and tourism
6. Planning implications of Smart cities, Green cities, Digital Cities, Eco-Cities.
7. E-Governance and urban local governments and e-Participation of communities in city infrastructure planning and development
8. Any other emerging areas in the field of urban and regional planning

The thesis shall be submitted in the form of thesis report, presentation drawing sheets, slides and posters etc. Thesis work submission also includes all relevant information in a CD.

TOTAL: 405 PERIODS