


UNIVERSITY OF MYSORE
Estd. 1916

Vishwavidyanilaya Karyasoudha
Crawford Hall, Mysuru- 570 005

No.AC2(S)/55/2024-25

Dated: 20.07.2024

Notification

Sub:- Modification of Syllabus and Scheme of Examinations of M.Tech. in Urban and Regional Planning (PG) programme from th Academic year 2024-25.

- Ref:-**1. Decision of Board of Studies in Urban and Regional Planning (CB) meeting held on 07-06-2024.
2. Decision of the Faculty of Science & Technology meeting held on 19-06-2024.
3. Decision of the Academic Council meeting held on 28-06-2024.

The Board of Studies in Urban and Regional Planning (CB) which met on 07-06-2024 has resolved to recommend & approved the Modification of Syllabus and Scheme of examinations of M.Tech. in Urban and Regional Planning (PG) with effect from the Academic year 2024-25.

The Faculty of Science & Technology and Academic Council at their meetings held on 19-06-2024 and 28-06-2024 respectively has also approved the above said modified Syllabus and Scheme of examinations hence it is hereby notified.

The Syllabus and Scheme of Examinations content may be downloaded from the University Website i.e., www.uni-mysore.ac.in.


Registrar
Registrar
University of Mysore
Mysore


To:

1. The Registrar (Evaluation), University of Mysore, Mysuru.
2. The Director, BOS/DOS in School of Planning & Architecture, Manasagangothri, Mysore.
3. The Dean, Faculty of Science & Technology, DOS in Mathematics, MGM.
4. The Director, Distance Education Programme, Moulya Bhavan, Manasagangothri, Mysore.
5. The Director, PMEB, Manasagangothri, Mysore.
6. Director, College Development Council , Manasagangothri, Mysore.
7. The Deputy Registrar/Assistant Registrar/Superintendent, Administrative Branch and Examination Branch, University of Mysore, Mysuru.
8. The PA to Vice-Chancellor/ Registrar/ Registrar (Evaluation), University of Mysore, Mysuru.
9. Office Copy.



UNIVERSITY OF MYSORE

(Estd. 1916)

REVISED SYLLABUS

M.TECH. IN URBAN AND REGIONAL PLANNING

SCHOOL OF PLANNING AND ARCHITECTURE
Manasagangotri, University of Mysore,
Mysuru

Existing Syllabus	Proposed Modification for the Syllabus
FIRST SEMESTER	FIRST SEMESTER
CORE PAPERS	CORE PAPERS
MTURP.1.1.HUMAN SETTLEMENTS; PLANNING THOUGHTS AND PHILOSOPHY	MTURP.1.1.HUMAN SETTLEMENTS; PLANNING THOUGHTS AND PHILOSOPHY
<p><u>Lecture</u></p> <p>Early human settlements – their evolution, form and structure. Changing pattern and form of human settlements - Socio-cultural, political, economic, physical and technological determinants. River Valley civilizations – Nile, Indus, Tigris and Euphrates - Historic cities and city planning principles. Greeks and Roman Civilization – their city planning principles. Medieval Towns in Europe City Planning during Renaissance and pre-industrial periods. Impact of industrial revolution on city planning. Human Settlements by C.A. Doxiadis</p> <p><u>Tutorial</u></p> <p>Planning philosophy and thoughts by Patrick Geddes, Le Corbusier and Ebenezer Howard. Daniel Burnham’s city beautiful and its movements. Study of New Towns - New Delhi, Chandigarh, Brasilia and Canberra. Concept of New Age Cities and Cyber Cities and Cyber City Design.</p> <p><u>References</u></p> <ol style="list-style-type: none"> 1. History of Urban Form: Before the Industrial Revolution by A. E. J. Morrises 2. Town Design by Frederick Gibbard 3. The Garden City: past, present and future by Ed. Stephen V. Ward and E. & FN Spon. 4. David Adams: Urban Planning and Development process, UCL Press London 1994 	<p><u>Lecture</u></p> <p>Early Human Settlements – Their Evolution, Origin and Growth. Urban Form Based on Determinants – Natural (Climate, Topography, Resources, Geography) And Man-Made (Socio-Cultural, Economic, Administrative, Political and Technological Determinants). Ancient River Valley Civilizations (Mesopotamia, Egypt & Indus Valley); Classical Civilizations (Greek And Roman), City Planning During Medieval, Renaissance and Pre-Industrial Periods, Industrial Revolution and Its Impact on City Planning.</p> <p>Utopian visions - Model Towns by Robert Owen, J.S. Buckingham, George Cadbury and Tony Garnier. Traditional Indian Town Planning Principles-Types of Plans Described In Vedic Scripts, Indian Knowledge Systems In Town Planning, ‘Nagara Vaastu Shastra’ . Evolution of Urban Planning In India During Colonial Period and Post-Colonial Period. Current Trends In Indian Urban Planning.</p> <p><u>Tutorial</u></p> <p>Planning Philosophy And Thoughts By Patrick Geddes, Le Corbusier, Ebenezer Howard, Daniel Burnham’s City Beautiful And Its Movements. Ekistics by Constantinos A Doxiadis ,</p>

<p>5. Stein Jay M: Classic Readings in urban planning: An introduction, Mcgraw Hill, New York</p> <p>6. C.A. Doxiades: Action for Human Settlements, Athen's, Centre of Ekistics, 1976.</p> <p>7. City Beautiful Movement by William H. Wilson, The John Hopkins, University Press, Baltimore and London, 1989.</p> <p>8. Arthur Kohn: History Builds the Towns, Lund Humphris, London 1953</p> <p>9. Arthur B. Gallion: Urban Pattern</p> <p>10. Lewis Mumford: Culture of Cities,</p> <p>11. P. Geddes: Cities in Evolution, Mcgraw Hill,</p>	<p>Study of New Towns -Brasilia And Canberra. Concept of New Age Cities and Cyber Cities and Cyber City Design.</p> <p>Case Studies of Town Planning during Vedic/Indo-Aryan, Dravidian and Mughal period. Case Studies on Colonial Cities (Jaipur, New Delhi) and Case Studies on Post-Colonial Cities (Chandigarh, Gandhinagar, Amaravati)in India</p> <p>References</p> <p>1. History of Urban Form: Before the Industrial Revolution by A. E. J. Morries</p> <p>2. Town Design by Frederick Gibbard</p> <p>3. The Garden City: past, present and future by Ed. Stephen V. Ward and E. & FN Spon.</p> <p>4. David Adams: Urban Planning and Development process, UCL Press London 1994</p> <p>5. Stein Jay M: Classic Readings in urban planning: An introduction, Mcgraw Hill, New York</p> <p>6. C.A. Doxiades: Action for Human Settlements, Athen's, Centre of Ekistics, 1976.</p> <p>7. City Beautiful Movement by William H. Wilson, The John Hopkins, University Press, Baltimore and London, 1989.</p> <p>8. Arthur Kohn: History Builds the Towns, Lund Humphris, London 1953</p> <p>9. Arthur B. Gallion: Urban Pattern</p> <p>10. Lewis Mumford: Culture of Cities,</p> <p>11. P. Geddes: Cities in Evolution, Mcgraw Hill</p>
<p>MTURP. 1.2. DEMOGRAPHY AND STATISTICAL METHODS</p>	<p>MTURP. 1.2. DEMOGRAPHY AND STATISTICAL METHODS</p>
<p><u>PART -A: DEMOGRAPHY</u></p> <p><u>Lecture</u></p> <p>Sources of Demographic data for planning- Population structure and Characteristics such as age, sex, occupation, educational attainment etc. Birth and Death rates. Population policies. Life Tables - Construction and analysis. Methods of population Projections. Migration, classification and factors influencing migration. Migration</p>	<p><u>PART- A: DEMOGRAPHY</u></p> <p><u>Lecture</u></p> <p>Sources of Demographic data for planning- Population structure and Characteristics such as age, sex, occupation, educational attainment etc. Dynamics of Demographic transition; Birth and Death rates. Population policies. Methods of population projections. Migration and Migration analysis, classification and factors influencing migration. Migration types and its impact on Urban Growth and Urbanization. Theories of Fertility, Mortality and</p>

types and its impact on Urban Growth and Urbanization.

Tutorial

Population Census in India- Census Operation- Census Questionnaires and Schedules.

PART -B: STATISTICAL METHODS

Lecture

Statistics as a tool to analyze and interpret data related to urban and regional planning.

Measures of Central tendency, measures of dispersion- standard deviation. Chi-square Test, simple linear regression and correlation.

Tutorial

Types of primary surveys, Design of planning questionnaires, sample surveys and Sampling methods.

References:

1. D. Bogue: Demography,
2. Davis. H Craig: Demographic projects techniques for regions and smaller areas. A Premier, UBC press ,Vancouver. DC 1995
3. Levin R and DS Rubin: Statistics for Management, Prentice Hall of India Ltd., Vi Ed, New Delhi 1995.
4. United Nations: ` Methods for projection of urban and rural population. Manual and Methods of estimating population, UN New York, 1974.
5. Bhende, A., Kanitkar, T., 2003. *Principles of Population Studies*. Bombay: Himalaya Publishing House.
6. Pathak, K.B. and Ram, F., 1992. *Techniques of Demographic Analysis*. Bombay: Himalaya Publishing House.

Migration.

Tutorials

Population Census in India- Census Operation- Census Questionnaires and Schedules. Life Tables - Construction and analysis. **Migration and its implications in spatial planning.**

PART- B: STATISTICAL METHODS

Lecture

Statistics as a tool to analyze and interpret data related to urban and regional planning. Measures of central tendency, measures of dispersion- standard deviation. Chi-square Test, **simple linear and Multiple** regression and correlation.

Tutorials

Types of primary surveys, Design of planning questionnaires, sample surveys and sampling methods. **Overview of SPSS (Statistical Package for Social Science).**

References:

1. Donald J. Bogue. *Principles of Demography*. John Wiley & Sons Inc. 1969
2. Davis. H Craig: *Demographic projects techniques for regions and smaller areas*. A Premier, UBC press ,Vancouver. DC 1995
3. United Nations: ` Methods for projection of urban and rural population. Manual and Methods of estimating population, UN New York, 1974.
4. Bhende, A., Kanitkar, T., 2003. *Principles of Population Studies*. Bombay: Himalaya Publishing House.
5. Sinha, V.C. and Acharia, E. *Elements of Demography* Allied Pub., Delhi. 1984.
6. Levin R and DS Rubin: Statistics for Management, Prentice Hall of India Ltd., Vi Ed, New Delhi 1995.
7. Dixon, W.J. and Massey, F.J. *Introduction to Statistical Analysis* McGraw Hill, New York. 1951.

<u>MTURP 1.3. PHYSICAL PLANNING: PRINCIPLES AND TECHNIQUES</u>	<u>MTURP 1.3. PHYSICAL PLANNING: PRINCIPLES AND TECHNIQUES</u>
<p><u>Lecture</u> Basic Principles, aims and objectives of Physical planning, Planning as an interdisciplinary study; Interrelationship between physical and socio-economic planning. Space standards, <i>Normative Standards, Performance Standards: Urban Development Plan</i> Formulation and Implementation (UDPFI): Planning norms and standards. Development Control: Zoning Regulations, Sub-division Regulations and Building bye-laws and Regulations for conservation of historical, heritage and natural areas. Neighbourhood planning: <i>principles and Techniques, Site Analysis and Designing of Neighbourhood.</i> Planning Surveys, <i>socio-economic survey</i> and studies for preparation of Master Plans. Preparation of Master Plans for Local Planning Area, Tools for plan implementation. UDPFI Guidelines for Plan Preparation and Implementation.</p> <p><u>Tutorial</u> Land Use: <i>Techniques to Preparation of Base maps, Land use Classification</i> and analysis Basic planning tools like FAR, FSI, Coverage and residential density - their interrelationships and application in urban planning.</p> <p><u>References:</u> 1. Lewis Keeble: Principles of Town and Country Planning. London, 2. K.S. Ramegowda: Urban and Regional Planning, Prasaranga, University of Mysore 3. Arthur B. Gallion: Urban Pattern 4. Rangawala: Town planning in India. 5. Chris Paris: Critical Readings I Planning Theory; Pergamon press</p>	<p><u>Lecture</u> Basics of physical planning. Principles, aims and objectives of Physical planning, Planning as an interdisciplinary study; Interrelationship between physical and socio-economic planning and land use. Basics of land use, Land use planning and design. Neighbourhood planning: <i>principles and Techniques, Site Analysis and Designing of Neighbourhood.</i></p> <p>Preparation of Master Plans: Planning Surveys - physical, socio-economic surveys and other studies for preparation of Master Plans. Defining relevance of regional plan, Structure plan and other plans interrelationship with master plan preparation.</p> <p>Local Planning Area and conurbation area, urban morphology and city region relationship in the preparation of master plan implementation. Density and zoning. Sustainable and Development</p> <p>Space standards: Normative Standards, Performance Standards: Urban Development Plan Formulation and Implementation (UDPFI): Planning norms and standards.</p> <p><u>Tutorial:</u> Urban Growth and development dynamics on urban and rural habitat and their study in relation to planning principles and practicing standards, regulations and policies. Zoning regulation and building byelaw.</p> <p><u>References:</u> 1. Lewis Keeble: Principles of Town and Country Planning. London, 2. K.S. Ramegowda: Urban and Regional Planning, Prasaranga, University of Mysore</p>

<p>Oxford 1982</p> <p>6. Hundles S (Ed): Ethics: A reader in Planning Theory: Practices and Education. New Jersey</p>	<p>3. Arthur B. Gallion: Urban Pattern</p> <p>4. Rangawala: Town planning in India.</p> <p>5. Chris Paris: Critical Readings I Planning Theory; Pergamon press Oxford 1982</p> <p>6. Hundles S (Ed): Ethics: A reader in Planning Theory: Practices and Education. New Jersey</p>
<p>MTURP.1.4 FOUNDATION COURSE IN NETWORKS AND CONSTRUCTION TECHNOLOGY (for Social Science background students)</p>	<p>MTURP.1.4 FOUNDATION COURSE IN NETWORKS AND CONSTRUCTION TECHNOLOGY (for Social Science background students)</p>
<p><u>Lecture</u></p> <p>PART- A Network characteristics - Infrastructure. Network and their relationship with urban form and layout design. Water supply- source-treatment and distribution network in relation to population distribution and norms. Water harvesting methods in urban areas. Sewage, sewers and sewerage – treatment and disposal. Site selection and optimum utilization of land . Sanitary land filling. Study of impact of solid wastes on land pollution and air pollution. Urban energy system, different types of energy requirements- networks and distribution system. Cables and Optic Fiber cable laying and design criteria Basic features of urban roads, gradient, camber. Curves and road drainage and types of bridges.</p> <p>PART B Fundamentals of building construction- loads and forces, Safe bearing and capacity of soil. Parts of buildings and their functions. Types of Foundations. Types of building materials- Natural and manufactured- prefabricated materials- Impact of overuse of natural materials like soil, stone and wood on environment. Building technique- traditional and modern techniques and their unique characteristics. Building types in</p>	<p><u>Lecture</u></p> <p>PART- A Network characteristics and Urban and Regional Infrastructure system. Networking of urban utilities and services and their relationship with urban form and layout design. Water supply- source-treatment and distribution network in relation to population distribution and norms. Water harvesting methods in urban areas. Sewage, sewers and sewerage – treatment and disposal. Site selection and optimum utilization of land. Study on solid waste management, energy recovery, solid waste disposal system, Sanitary land filling- Impact on land water and air pollution. Urban energy system, different types of energy requirements- networks and distribution system. Cables and Optic Fiber cable laying and design criteria. Urban alternative energy system, resource & energy harvesting and sustainable planning, Basics of road way system, features of urban roads- gradient, camber. Curves and road widening, road way drainages and types of cross drainage works.</p> <p>PART B Fundamentals of building construction- loads and forces, Safe</p>

<p>relation to climate and natural landscape. Building industry and management. Basic aspects of estimates and cost features.</p> <p><u>Tutorial</u> Treatment of water for Rural and urban uses, sewage treatment for rural and urban areas. Functions of Building components</p> <p><i>References:</i></p> <ol style="list-style-type: none"> 1. R. Cox Charles: Operation and control of water treatment process; WTO Geneva, 1969. 2. T.P. Salvats: Environmental Engineering and Sanitation; Wiley and sons, New York 1972 3. TB Whites: Design of Sewers and Sewage treatment works. Arnold Publishers London 1970 	<p>bearing and capacity of soil. Parts of buildings and their functions. Types of Foundations. Types of building materials- Natural and manufactured- prefabricated materials- Impact of overuse of natural materials like soil, stone and wood on environment. Building technique- traditional and modern techniques and their unique characteristics. Building types in relation to climate and natural landscape. Building industry and management. Basic aspects of estimates and cost features.</p> <p>Fundamentals of alternative building materials, constructions and sustainable approach.</p> <p><u>Tutorial</u> Treatment of water for Rural and urban uses, sewage treatment for rural and urban areas. Functions of Building components</p> <p><i>References:</i></p> <ol style="list-style-type: none"> 1. R. Cox Charles: Operation and control of water treatment process; WTO Geneva, 1969. 2. T.P. Salvats: Environmental Engineering and Sanitation; Wiley and sons, New York 1972 3. TB Whites: Design of Sewers and Sewage treatment works. Arnold Publishers London 1970 4. Building materials and constructions, by Rangawala or sushil kumar or punimia or kurmi. 5. water supply and sanitation engineering, Rangawala or sushil kumar or punimia.
<p>MTURP1.5. FOUNDATION COURSE IN SOCIAL SCIENCES (for Architecture and Engineering Background students)</p>	<p>MTURP1.5. FOUNDATION COURSE IN SOCIAL SCIENCES (for Architecture and Engineering Background students)</p>
<p><u>Lecture</u></p> <p><u>Part A</u> Society, characteristics of society, society v/s community. Culture, characteristics of culture and functions of culture.</p>	<p><u>Lecture</u></p> <p><u>Part A</u> Introduction to Society, characteristics of Society, characteristics of Community. Social Systems, Social Institutions and their functions.</p>

Modernization and social change, Gender issues and social inequalities

Part B

Basic concepts of economics related to urban and regional planning, Demand and Supply-growth and development –per capita income, GNP and GDP – Employment and unemployment-Savings and Capital formation.

National economic planning process, Characteristics of LDCs

Part C

Urban, urban growth and urbanization, Theories of urban growth, Basic and non-basic functions – economic base analysis, classification of towns.

Settlement types and settlement pattern and human ecology.

Tutorial

Human Development Indicators – HDI, HPI and GDI
Urban land use and land values.

References

1. Samuelson: Introduction to Economics.
2. Madan. G.R.: Social change
3. M.N. Srinivas: Social change in Modern India
4. Harold Carter: The study of Urban Geography.
5. M. Harris: Economic Development , Cities and Planning: Oxford University Press , Mumbai 1978
6. Evans. AW: Urban Economics: An Introduction, Oxford, Blackwell

Culture, characteristics of Culture and functions of Culture. Modernization and Social Change, Gender Issues and Social Inequalities and Social Justice. Gender Sensitivity and its implications on Spatial Planning.

Part B

Basic concepts of Economics and its relevance in Urban and Regional planning; Concepts of Demand and Supply, Growth and Development; Per Capita Income, GNP and GDP; Markets and Types of Markets; Employment and Unemployment; Savings and Capital formation; National economic planning process; Characteristics of LDCs. Role of NITI Aayog in transforming India.

Part C

Basic concepts on Urban Area, Urban Growth and Urbanization, Theories of Urban Growth, Basic and Non-Basic Functions – Economic Base Theory; Classification of Towns; Settlement types and settlement pattern and Human Ecology.

Tutorial

Social Groups and Social Segregation; Human Development Indicators – HDI, HPI and GDI; Socio- Economic Issues in India; Urban land use and land values. Concept of De-Globalization and Multilateralism.

References

1. Samuelson: Introduction to Economics.
2. Madan. G.R.: Social change
3. M.N. Srinivas: Social change in Modern India
4. Harold Carter: The study of Urban Geography.
5. M. Harris: Economic Development , Cities and Planning: Oxford University Press , Mumbai 1978
6. Evans. AW: Urban Economics: An Introduction, Oxford, Blackwell

MTURP1.6. PLANNING STUDIO I: MICRO PLANNING (PROJECT WORK)	MTURP1.6. PLANNING STUDIO I: MICRO PLANNING (PROJECT WORK)
<p>COURSE CONTENT</p> <p><u>Studio Exercises</u></p> <p>1. Introduction to maps and Presentation Techniques: Interpretation of Topographical sheets. (2weeks, Marks IA 10 and Examination 10)</p> <p>2. Rural Development Principles: Preparation of Plan for a Rural Habitat. (3 weeks. Marks IA 30 and Examination 30 marks)</p> <p>3. Planning Appreciation of a Residential Neighbourhood. (3weeks. Marks IA 20 and Examination 20)</p> <p>4. Neighbourhood Planning: Site Planning and Design – Principles and Planning Norms and Space Standards. (8 Weeks. Marks IA 40 and Examination 40 marks).</p> <p>(Project Duration 16 Weeks. Marks Continuous Assessment A 100 and Examination 100 marks). (Note: Study Visits to organized for Newly Developed Neighbourhood Units/Townships Bangalore and Mysore and other places)</p>	<p>-NO CHANGES-</p>

<u>SECOND SEMESTER</u>	<u>SECOND SEMESTER</u>
<u>CORE PAPERS</u>	<u>CORE PAPERS</u>
MTURP 2.1 REGIONAL PLANNING AND DEVELOPMENT	MTURP 2.1 REGIONAL PLANNING AND DEVELOPMENT
<p><u>Lecture</u> Aims and Objectives and need for regional planning- Concept, Types and Classification of regions. Delineation of planning regions by various Techniques- Principal component method, Composite index, Ridgeline technique, Gravity potential technique, Boundary girdle method. Regional Planning and Economic Development- Backward regions and Developed regions, Characteristics and reasons for backwardness. Case study of any regional plan. Introduction to regional analysis. Linear Programming, Input and Output Analysis- Growth Model, Core-periphery models. Regional Development Theories- W. Christaller; Von Thunen; Losch; A .Weber and W. Isard. Application of Regional techniques in District Planning.</p> <p><u>Tutorial</u> Multilevel planning – Needs and methods of multilevel planning in India. Growth Foci concept- Regional planning as a tool to integrate rural and urban areas. District Planning: Integrated approach to district level planning (vertical and horizontal spatial integration); Rural-Urban spatial relationship; District Development Plans – Guidelines for District Planning: Content and context and methodologies</p> <p>References:</p> <ol style="list-style-type: none"> 1. R.P. Misra: Regional Planning: Concepts, Techniques and case studies; Concept Publishers, New Delhi 1998 2. W. Isard: Methods of Regional Analysis- An Introduction to Regional Science. MIT Press, Cambridge 1960 3. Chand Mahesh and V.K. Puri: Regional planning in India; 	<p><u>Lecture</u> Basic Concepts, Types and Classification of regions. Aim and objectives and need for regional planning. Delineation of planning regions by various Techniques- Principal component method, Composite index, Ridgeline technique, Gravity potential technique and Boundary girdle method etc. Regional Planning and Economic Development- Backward regions and Developed regions, Characteristics and reasons for backwardness. Introduction to regional analysis techniques. Linear Programming, Input and Output model, Growth pole Hypothesis, Core-periphery models etc. Regional Development Theories- W. Christaller; Von Thunen; Losch; A .Weber and W. Isard. Application of Regional techniques in District Planning. District Planning: Integrated approach to district level planning (vertical and horizontal spatial integration); Rural-Urban spatial relationship; District Development Plans – Guidelines for District Planning: Content and context and methodologies; URDPFI Guidelines – Regional Planning Process, Norms and Standards.</p> <p><u>Tutorials</u> Multilevel planning – Needs and methods of multilevel planning in India. Growth Foci concept- Regional planning as a tool to integrate rural and urban areas. : Special Regions: SEZ, Agro Regions, Ecological regions and Industrial Corridor regions etc. Case Studies of regional plans.</p> <p>References:</p> <ol style="list-style-type: none"> 1. R.P. Mishra: Regional Planning: Concepts, Techniques and case studies; Concept Publishers, New Delhi 1998

<p>Allied Publishers, New Delhi, 1983.</p> <ol style="list-style-type: none"> 4. K.V. Sundaram: Urban and Regional Planning in India; Vikas Publishing House, New Delhi 1984. 5. Hansen M. (Ed) Regional Policy and Regional Integration. Edward Edgar U.K. 1996 6. R.P. Misra. (Ed): Regional Planning, UNCRD Nagoya, Japan 10 volumes. 	<ol style="list-style-type: none"> 2. W. Isard: Methods of Regional Analysis- An Introduction to Regional Science. MIT Press, Cambridge 1960 3. Chand Mahesh and V.K. Puri: Regional planning in India; Allied Publishers, New Delhi, 1983. 4. K.V. Sundaram: Urban and Regional Planning in India; Vikas Publishing House, New Delhi 1984. 5. Hansen M. (Ed) Regional Policy and Regional Integration. Edward Edgar U.K. 1996 6. R.P. Misra. (Ed): Regional Planning, UNCRD Nagoya, Japan volumes.
<p>MTURP.2.2. ECOLOGY AND ENVIRONMENTAL ASPECTS OF PLANNING</p>	<p>MTURP. 2.2. ECOLOGY AND ENVIRONMENTAL ASPECTS OF PLANNING</p>
<p><u>Lecture</u> Fundamentals of Eco-system and environment. Components of Natural and Built Environment- Man’s role in changing the face of the earth. Man’s impact on natural features viz. Atmosphere (climate), - Urban Heat Island; Forests and Landforms. Environmental pollution – types of pollution, air; water; noise and land – their source, impact and abatement. Environmental Impact Assessment. Environmental Policy and Legislation in India International Environmental Issues on Stockholm Conference, Earth Summit 1992, Rio Conference.</p> <p><u>Tutorial</u> UNEP and its Role. Sustainable Development Role of NGO’s and Voluntary Agencies in preserving the environment. Types of natural and manmade disasters – Pre disaster planning- warning systems- disaster mitigating measures – post disaster measures – Inter- agency coordination and role of Voluntary agencies.</p>	<p><u>Lecture</u> Fundamentals of Eco-system and Environment; Components of Natural and Built Environment- Man’s role in changing the face of the earth. Man’s impact on natural features viz. Atmosphere (Climate); Urban Ecosystem; Urban Heat Island; Types of Forests and Landforms.</p> <p>Environmental Pollution – Types of Pollution- Air; Water; Noise and Land – their Source, Impact and Abatement measures and Policy Measures; Bio-Chemical Cycles; Eco Sensitive Zones;</p> <p>Environmental Impact Assessment and Case Studies on Development Projects; Environmental Policy and Legislation in India- NGT; Environmental Protection Act, 1986; International Environmental Issues in UN Conference of parties.</p> <p><u>Tutorial</u> UNEP and its Role; Sustainable Development; Role of NGO’s and Voluntary Agencies in preserving the environment;</p>

<p>Global Warming and Climate Change.</p> <p>References</p> <ol style="list-style-type: none"> 1. Brain J.L. Berry and Frand E. Horton, Urban Environmental Management, USA,1974 2. Detwyler: Urban Environment 3. Office of United Nations Disasters Relief Coordinator: Disaster prevention and mitigation Vol. 12 United Nations New York 1986 4. S. Ramani: Disaster Management: Advanced course on Modern Trends in Housing. Structural Engineering Research center., Vol.2 Madras 1980. 5. Detwyler: Urban Ecology 6. Bekerman: In Defense of Eco Development 7. Scoorer R.S.: Pollution – Air problems and policies 8. ENVIS: Journal of School of Planning and Architecture, New Delhi. 9. UNCHS: Human Settlements and Sustainable Development. 	<p>Types of Natural and Manmade Disasters – Pre Disaster Planning and Management- Early Warning Systems- Disaster Mitigating measures – Post Disaster Management – Inter-Agency coordination and role of Voluntary agencies; Global Warming and Climate Change.</p> <p>References</p> <ol style="list-style-type: none"> 1. Brain J.L. Berry and Frand E. Horton, Urban Environmental Management, USA,1974 2. Detwyler: Urban Environment 3. Office of United Nations Disasters Relief Coordinator: Disaster prevention and mitigation Vol. 12 United Nations New York 1986. 4. S. Ramani: Disaster Management: Advanced course on Modern Trends in Housing. Structural Engineering Research center., Vol.2 Madras 1980. 5. Detwyler: Urban Ecology 6. Bekerman: In Defense of Eco Development 7. Scoorer R.S.: Pollution – Air problems and policies 8. ENVIS: Journal of School of Planning and Architecture, New Delhi. 9. UNCHS: Human Settlements and Sustainable Development.
<p>MTURP.2.3. HABITAT AND HOUSING</p>	<p>MTURP.2.3. HABITAT AND HOUSING</p>
<p><u>Lecture</u></p> <p>Habitat – characteristics of rural and urban habitat- Main recommendations of Habitat I and Habitat II Conferences. Follow up action by India and Asian Countries. Need for a National Habitat policy. Definition of house, household and Family. Conceptual analysis- Housing as an index of social welfare. Housing as an integral sector of rural and urban development.</p> <p>Socio-cultural perspective of housing. Housing and family</p>	<p><u>Lecture</u></p> <p>Housing- Definition of House, Household/Family. Housing as an Index of Social Welfare. Housing as an Integral Sector of Rural and Urban Development.</p> <p>Housing Typology, Difference between Urban and Rural Housing, Dimensions of Rural and Urban Housing Habitat-Introduction, Characteristics and Difference between Urban and Rural Habitat, UN Habitat Conferences- Introduction, Need and Main recommendations of Habitat I, II and III Conferences</p>

size – principles of community organization and participation in the design and implementation of housing programs.

Cooperative Housing. Dimensions of rural and urban housing- Housing problems – Housing

Housing Finance – Institutional and individual response to housing. Role of HUDCO in housing provision in India

Tutorial

Market Analysis and Housing Quality- Appropriate Technology for housing. Housing in Five Year Plans, Incentives and innovations for house building activities Elements of National Housing Policy – Comparative Housing Policies of Developed and Developing countries.

Reference

1. Francis Cherunilam, Odeyar D. Heggade, Housing in India, Himalaya Publishing House, 1987
2. Brian C Aldrich, R.S. Sandhu, Housing in Asia – Problems and Perspectives, Rawat Publications, 1990
3. C. Abrahams: Man` s struggle for Shelter.
4. IDS: Shelter and Habitat Asia Series, Research Monographs 1978
5. Hari Anand: Shelter in India.
6. Turner JFC: Housing for people, Alexandria Press, Oxford 1979.
7. Shelter: In-house Journal of HUDCO, New Delhi.
8. UNCHS: National Experience with Shelter Delivery for the poorest group. UNCHS Nairobi 1994

Housing Problems- Qualitative & Quantitative Assessment of Urban and Rural Housing Shortages in India
Evolution of Housing Policy in India;
Critical Review of various Central and State Housing Policies and Schemes,
Affordable Housing Policies- Definitions, Need, Policies and Salient Features with Case Studies.

Role of Community Participation, Private Sector and NGO in Housing

Introduction to Housing Finance- Definition, Types of Housing Finance, Role of Financing organization
Cooperative Housing- Definition, Its Features, Merits & Demerits.

HUDCO and National Housing Bank- Background, Features and Role In Housing Provision In India

Tutorial

Market Analysis and Housing Quality- Appropriate Technology for housing. Housing in Five Year Plans, Incentives and innovations for house building activities
Comparative Housing Policies of Developed and Developing countries. Climate and Disaster Resilient Housing with Case Studies , Slum Housing with Case Studies, The Role of Different Institutions/Multilateral Agencies in Housing, Sustainable Development Goals; Sustainable & Green Buildings.

Reference

1. Francis Cherunilam, Odeyar D. Heggade, Housing in India, Himalaya Publishing House, 1987
2. Brian C Aldrich, R.S. Sandhu, Housing in Asia – Problems and Perspectives, Rawat Publications, 1990

	<p>3. C. Abrahams: Man`s struggle for Shelter. 4. IDS: Shelter and Habitat Asia Series, Research Monographs 1978 5. Hari Anand: Shelter in India. 6. Turner JFC: Housing for people, Alexandria Press, Oxford 1979. 7. Shelter: In-house Journal of HUDCO, New Delhi. 8. UNCHS: National Experience with Shelter Delivery for the poorest group. UNCHS Nairobi 1994</p>
<p>MTURP.2.4. TRAFFIC AND TRANSPORTATION PLANNING</p>	<p>MTURP.2.4. TRAFFIC AND TRANSPORTATION PLANNING</p>
<p>Lecture</p> <p>Forms of Transportation, Transportation system in India, planning in India and Approaches to planning for rural roads. Regional/Rural Roads, Urban Road classification, Road characteristics, Alignment and sight distance. Traffic and Travel surveys: Volume, Speed, Origin and Destination survey [O&D], Parking and Accidents, Technics of Survey and Presentation. Road way Intersection, Rotary and Signaling system and Design. Urban Transportation Planning Process- Setting goals and objectives, Land use and Traffic planning, Travel data - Trip generation and Trip Distribution studies, Evaluation of Transportation proposals. Traffic Management – Pedestrian movement, Planning for Mass Transportation by Bus, Rail and Bimodal, Rapid Transit System, Para transit system and links with the region. Comprehensive traffic and transportation plan, Mobility</p>	<p>Lecture</p> <p>Forms of Transportation, Transportation system in India and planning approaches for planning road way networking. Classification of Regional Roads and Urban Roads, characteristics of traffic and transport elements, Road way elements, road way Alignment and Sight distance. Delineation of study area for traffic surveys, Traffic surveys – Speed, Volume, Density studies. Origin and Destination survey [O&D], Techniques of Survey and their Presentation. Parking studies and Planning for Parking and pedestrian ways. Planning study on Road way Intersection, Rotary and Signalling system. Urban Transportation Planning Process- Setting goals and objectives, Land use and Traffic planning, Travel data - Trip generation and Trip Distribution studies, Evaluation of Transportation proposals. Traffic Management – Pedestrian movement, Planning for Mass Transportation by Bus, Rail and Bimodal, Rapid Transit System, Para transit system and links with the region.</p>

<p>plan, Transportation system and management plans.</p> <p>Tutorial Location analysis and plans for Railway stations and Marshaling Yards, Airport, sea port, Bus Station and stops, truck and Terminals.</p> <p>References:</p> <ol style="list-style-type: none"> 1. Institute of Transportation Engineers: ` Transportation and Traffic Engineering Handbook`. Prentice Hall. Inc., New Jersey 1982 2. Khanna E.J. and CEO Justo: Highway Engineering. Nemichant and Bros. Roorkey 1987. 3. Kadiyali. L.R.: ` Traffic Engineering and Transport Planning. Khanna Publishers, New Delhi 1991. 4. HMSO: Roads in Urban Areas; HMSO London. 5. Bruton: Introduction to Transportation Planning Process; London. 	<p>Location analysis and plans for Railway stations and Marshaling Yards, Airport sea port, Bus Station and stops, truck and other terminals.</p> <p>Traffic and transportation Planning relevance on Transit oriented development, non-motorised transport system and Para transit system and their links with the urban region. Comprehensive traffic and transportation plan, Mobility plan, Transportation system and management plans.</p> <p>Tutorial Locational analysis and plans for Railway stations and Marshaling Yards, Airport, sea port, Bus Station and stops, bus bays, truck and Terminals. Origin and Destination studies and Parking dynamics and land use structure.</p> <p>References:</p> <ol style="list-style-type: none"> 1. Institute of Transportation Engineers: ` Transportation and Traffic Engineering Handbook`. Prentice Hall. Inc., New Jersey 1982 2. Khanna E.J. and CEO Justo: Highway Engineering. Nemichant and Bros. Roorkey 1987. 3. Kadiyali. L.R.: ` Traffic Engineering and Transport Planning. Khanna Publishers, New Delhi 1991. 4. HMSO: Roads in Urban Areas; HMSO London. 5. Bruton: Introduction to Transportation Planning Process; London.
<p>MTURP.2.5. PLANNING AND DESIGN STUDIO-II PREPARATION OF A MASTER PLAN FOR AN URBAN AREA</p>	<p>MTURP.2.5. PLANNING AND DESIGN STUDIO-II PREPARATION OF A MASTER PLAN FOR AN URBAN AREA</p>

<p>COURSE CONTENT</p> <p>1. Research Methodology: The objective of this is to enhance the skills needed to analyze Interpret data and information and undertake Thesis preparation. The Five lectures will Cover Types of Research; Literature source and review, Analysis and Report format. This carries 20 marks out of internal assessment.</p> <p>2. Preparation of Master Plan for a Town or a city. The exercise is a group work involves collection of Base map and tracing; Socio-economic and Physical Surveys of the settlement, Analysis of the data and Preparation of Plans including Land use proposals and infrastructure for 10 years with Planning Tools for implementation.</p> <p>The presentation of this exercise in reviews and Examination is through Charts, Graphical and Spatial representation and Typed Report This carries 80 marks for Master Plan exercise, (Continuous Internal assessment marks 100 and examination marks 100)</p>	<p>-NO CHANGES-</p>
<p>THIRD SEMESTER</p>	<p>THIRD SEMESTER</p>
<p>CORE PAPER</p>	<p>CORE PAPER</p>
<p>MTURP.3.1 PROJECT FORMULATION, EVALUATION AND MONITORING</p>	<p>MTURP.3.1 PROJECT FORMULATION, EVALUATION AND MONITORING</p>
<p>Lecture Description of plan, scheme and project. Basic approach for identification of project.</p>	<p>Lecture Description of plan, scheme and project. Basic approach for identification of project.</p>

<p>Detail study of project cycle and various stages of project formulation. Detailed study of project appraisal and feasibility studies.</p> <p>Methods of evaluation and monitoring of project; concurrent and post evaluation of project.</p> <p>Principles of measuring cost Cost-Benefit analysis, economic and social cost, Threshold analysis. Network – CPM and PERT analysis.</p> <p>Components of cash flow – Net present value, treatment of uncertainty of project, payback period, Accounting rate of return – IRR.</p> <p>Tutorial</p> <ul style="list-style-type: none"> - DPR [Detailed Project Report] - Technique of monitoring of development works. BOT; BOOT and Turnkey Projects, emerging trends in decision making process for joint sector project, like Escrow cover and Guarantee et <p>References:</p> <ol style="list-style-type: none"> 1. George Irrin, Modern Cost Benefit Methods-An Introduction to Financial, Economic and Social Appraisal of Development Projects, Macmillan, London, 1984 2. Dr. T.M. Mahesh, Evaluation of Watershed Programmes in Karnataka, Sujala Project and its impact on landless labourers, small and marginal farmers and socially marginalized groups in Chitradurga District, North Stafford Shire Press Limited, U.K.,2010, 3. Laynard: Cost benefits analysis. 	<p>Detailed study of project cycle and various stages of project formulation. Detailed study of project appraisal and feasibility studies.</p> <p>Methods of evaluation of project; pre, concurrent and post evaluation of project.</p> <p>Principles of measuring Cost – Benefit analysis, economic and social cost, Threshold analysis.</p> <p>Components of cash flow – Net present value and future value, treatment of uncertainty of projects, payback period. Accounting rate of return – IRR.</p> <p>Emerging trends in application of project identifications in urban and regional planning.</p> <p>Applications of threshold analysis and CPM and PERT in urban and regional planning. Activities, time dimensions and space making in urban and rural habitats.</p> <p>Applications of project formulation and evaluation techniques on urban and regional planning issues, decision making and supportive programme for planning and development.</p> <p>Tutorial</p> <p>Network – CPM and PERT analysis.</p> <p>Techniques of monitoring of development works. BOT; BOOT and Turn key projects.</p> <p>Detailed project report preparation for urban and regional planning issues</p> <p>References:</p> <ol style="list-style-type: none"> 1. George Irrin, Modern Cost Benefit Methods-An Introduction to Financial, Economic and Social Appraisal of Development Projects, Macmillan, London, 1984 2. Dr. T.M. Mahesh, Evaluation of Watershed Programmes in
---	---

<p>4. Ramaraju Thirumalai, Project Management- in Emerging Environment of Globalization, Himalaya Publishing House, 2002</p> <p>5. UNIDS: Project Formulation and Evaluation – Research, monographs.</p> <p>6. VTD Balaraman: Cost Benefit analysis, UNIDS 1978</p> <p>7. Little and Merlees: Project Planning for Developing Countries.</p> <p>8. Mishan: Cost Benefit Analysis.</p>	<p>Karnataka, Sujala Project and its impact on landless labourers, small and marginal farmers and socially marginalized groups in Chitradurga District, North Stafford Shire Press Limited, U.K.,2010,</p> <p>3. Laynard: Cost benefits analysis.</p> <p>4. Ramaraju Thirumalai, Project Management- in Emerging Environment of Globalization, Himalaya Publishing House, 2002</p> <p>5. UNIDS: Project Formulation and Evaluation – Research, monographs.</p> <p>6. VTD Balaraman: Cost Benefit analysis, UNIDS 1978</p> <p>7. Little and Merlees: Project Planning for Developing Countries.</p> <p>8. Mishan: Cost Benefit Analysis.</p>
<p>MTURP 3.2 PLANNING LEGISLATION, GOVERNANCE AND MANAGEMENT</p>	<p>MTURP 3.2 PLANNING LEGISLATION, GOVERNANCE AND MANAGEMENT</p>
<p><u>Lecture</u></p> <p>Overview and Basis of Law- Meaning of Law, Act, Ordinance, Bill and Bye-laws</p> <p>Introduction to Indian Constitution- Fundamental Rights and Directive Principles and Fundamental Duties of a Citizen.</p> <p>Municipalities and Pachayats Acts: Powers and Functions of Local Bodies. 74th Constitution Amendment Act Urban and Rural Plan Integration. Functions and Role of MPC and District Planning Committee. Municipal Finance- Financing of plans.</p> <p>Meaning and concept of Governance and Reforms. Evolution of Planning Legislation in India</p>	<p><u>Lecture</u></p> <p>Legislation: Overview and Basis of Law, Meaning of Law, Ordinance and Bill, Act, Rules, Regulations and Bye-laws.</p> <p>Introduction to Indian Constitution- Citizenship; Fundamental Rights; Directive Principles of State Policy and Fundamental Duties of Citizen. Planning Legislation: Evolution of Planning Legislation in India,</p> <p>The Panchayats and Municipalities: Powers, Authority and Responsibilities, Ward Committees, Area Sabha, Metropolitan and District Planning Committees; 73rd and 74th Constitutional Amendment Acts and Functions of PRIs and ULBs under 11th and 12th Schedule of the Constitution.</p> <p>Legislative Competence of State and Central governments to enact Town Planning Legislation.</p> <p>The Karnataka Town and Country Planning Act, 1961 –</p>

<p>Legislative Competence of State and Central governments to enact Town Planning Legislation</p> <p>Provisions of Acts - Karnataka Town and Country Planning Act, 1961, Karnataka Urban Development Authorities Act, Planning Authorities Act, Bangalore Development Authority and BMRDA Act</p> <p>Acts related to: Land Acquisition, Karnataka Housing Board, Structure Plans and Local Plans</p> <p><u>Tutorial</u></p> <p>UK Planning Laws</p> <p>Development Control. Development Charges and Betterment Levy.</p> <p>Resource Mobilization</p> <p>Transparency and better Municipal Management. Citizens Participation in Planning.</p>	<p>Objects and purpose the Act, Declaration of Local Planning Area, Constitution of Planning Authority including its powers and functions, Preparation of Master Plan including Surveys, Contents, Approval, and Enforcement- Preparation of Town Planning Schemes, Duties of Town Planning Officer, Planning Authorities Rules.</p> <p>Land Acquisition for Master Plan Implementation: Right to Fair Compensation and Transparency in Land Acquisition, Rehabilitation and Resettlement Act-2013, Development Rights/TDR</p> <p>Urban Local Bodies-Powers and Functions as per the Karnataka Municipalities Act, 1964; Municipal Finance and Budget, Financing of plans and schemes.</p> <p>Governance : Meaning Governance and concept of Good Urban Governance and Reforms, Resource Mobilization, Transparency and better Municipal Management.</p> <p><u>Tutorial</u></p> <p>UK Planning Laws: Development Plans, Structure Plans and Local Plans and PPG (Planning Policy Guidance) Acts- Karnataka Urban Development Authorities Act, Bangalore Development Authority Act, Bangalore Metropolitan Regional Development Authority Act, Karnataka Planning Authority Rules, Karnataka Housing Board, Development Control- Zoning Regulations, Sub-division Regulations and Building Bye-laws, Development Charges and Betterment Levy.</p> <p>Citizen Participation Law, and Citizens Participation in Planning.</p>
<p>MTURP. 3.3. COMPUTERS APPLICATIONS, INFORMATION TECHNOLOGY AND GEOGRAPHIC</p>	<p>MTURP. 3.3. COMPUTER APPLICATIONS, INFORMATION TECHNOLOGY AND GEOGRAPHIC INFORMATION</p>

INFORMATION SYSTEMS (GIS)	SYSTEMS (GIS)
<p><u>Lecture</u> PART- A Computer applications – Hardware, software and computer Networks. Web resources, web portal - India Urban Portal, India Water Portal, DISNET & NICNET Data Base Management, Urban and Regional information system and Management Information System (MIS), Land Information System, National Urban Information System (NIUS).</p> <p>PART -B Introduction to remote sensing – spatial data acquisition and applications of remote sensing in Urban and Regional Planning Elements of GIS: Hardware, data, software, data input. Vector and raster software, data storage and data management, data processing and data output and presentation. Concepts and User interface. GIS data types and Structures; Data Models, Vector Data Model and Raster Data Model Databases" Data Base Management System, Database design, Data integration, input sources, primary data, secondary data, satellite data, digitizing - manual digitizing, raster scanning, vector and raster conversion. Network analysis, Overlay analysis and Query.</p> <p><u>Tutorials</u> Information Technology and e-Governance Initiatives: IT policy of State Government and Government of India, Case studies of Bhoomi, RDS and other e-governance initiatives. Modeling with GIS, Data analysis and modeling: Spatial analysis and modeling.</p> <p><u>References:</u> Crown R.G. and S. John: Computers and Information Systems. McGraw Hill Book Company, Mumbai 1984 De Bruijin (ed); Urban Information System and Low Cost Survey</p>	<p>PART- A: COMPUTERS APPLICATIONS, INFORMATION TECHNOLOGY</p> <p><u>Lecture</u> Computer applications – Hardware, software and computer Networks. DISNET & NICNET. Web resources, web portal – SMARTNET, ISRO-Bhuvan, India Water Portal, India Environmental Portal etc. Data Base Management, Management Information System (MIS), Land Information System, National Urban Information System (NIUS).</p> <p><u>Tutorials</u> Information Technology and e-Governance Initiatives: IT policy of State Government and Government of India, Case studies of Bhoomi, RDS and other e-governance initiatives in India.</p> <p>PART- B: GEOGRAPHIC INFORMATION SYSTEMS (GIS)</p> <p><u>Lecture</u> Introduction to remote sensing – spatial data acquisition and applications of remote sensing in Urban and Regional Planning Elements of GIS: Hardware, data, software, data input. Vector and raster software, data storage and data management, data processing and data output and presentation. Concepts and User interface. GIS data types and Structures; Data Models, Vector Data and Raster Data. GIS Databases and Data Base Management System, Database design, Data integration, input sources, primary data, secondary data, satellite data, digitizing - manual digitizing, raster scanning, vector and raster conversion.</p> <p><u>Tutorials</u> Network analysis, Overlay analysis and Query. Modeling with GIS, Data analysis and modeling: Spatial analysis and modeling. Open Source Softwares- QGIS, ILWIS, GRASS, EDRIS etc..</p>

<p>Techniques: International Workshop on Urban and Regional Planning Information Systems. NRS and ITC, New Delhi. 1986 Brenda White: Urban Information Systems, Rhind and H. Mounsey: Understanding GIS. Taylor and Francis. London. 1989.</p>	<p>References:</p> <ol style="list-style-type: none"> 1. Crown R.G. and S. John: Computers and Information Systems. McGraw Hill Book Company, Mumbai 1984 2. De Bruijin (ed); Urban Information System and Low Cost Survey Techniques: International Workshop on Urban and Regional Planning Information Systems. NRS and ITC, New Delhi. 1986 3. Brenda White: Urban Information Systems, 4. Rhind and H. Mounsey: Understanding GIS. Taylor and Francis. London. 1989. 5. George Joseph C Jeganathan. FUNDAMENTALS OF Remote Sensing. Universities Press, Hyderabad, Third Edition. 2018
<p><u>MTURP.3.4.1 URBAN REDEVELOPMENT AND POVERTY ALLEVIATION PROGRAMMES</u></p>	<p><u>MTURP.3.4.1 URBAN REDEVELOPMENT AND POVERTY ALLEVIATION PROGRAMMES</u></p>
<p><u>Lecture</u></p> <p>Urban Redevelopment and Urban Renewal: - Objectives of urban Renewal, Urban Blight – Causes, Measuring Blight, Problems of Urban Decay - causes and consequences, Technique of conducting surveys to assess urban decay/blight, Case Studies of Urban Redevelopment and Urban Renewal Projects in India and Abroad. Slums: Characteristics of Urban Slums and Squatter Settlements - causes and its consequences. Declaration of Slums, Slum Improvement, Resettlement and Rehabilitation and Redevelopment and its Case Studies. Slum Improvement and Clearance Board and its Role in Development of Slum including Case Studies of Slum Improvement and Redevelopment Projects. Urban Poverty- Identification of Urban Poverty, Basic Services Approach for Identification of Poverty, Social Sector Goals, Urban Poverty Alleviation Programmes Viz. SJSRY and EIUS, BSUP(JNNURM).</p>	<p><u>Lecture</u></p> <p>Urban Redevelopment and Urban Renewal: - Objectives of urban Renewal, Urban Blight – Causes, Measuring Blight, Problems of Urban Decay - causes and consequences, Technique of conducting surveys to assess urban decay/blight, Case Studies of Urban Redevelopment and Urban Renewal Projects in India and Abroad. Slums: Characteristics of Urban Slums and Squatter Settlements - causes and its consequences. Declaration of Slums, Slum Improvement, Resettlement and Rehabilitation and Redevelopment and its Case Studies. Slum Improvement and Clearance Board and its Role in Development of Slum including Case Studies of Slum Improvement and Redevelopment Projects; Case studies Urban Poverty- Identification of Urban Poverty, Basic Services Approach for Identification of Poverty, Social Sector Goals, Urban</p>

<p>Livelihood, self-employment ventures, micro-financing (self-help groups). Urban Community Development Initiatives, Creation of Community Structures, Community Development Society and its role in Poverty Alleviation , Role of Voluntary Agencies and Institutions in Slum Improvement and Slum Dwellers Welfare. Informal Sector and planning for informal sector.</p> <p><u>Tutorial</u> Urban Renewal in Historical and Heritage areas; Natural Areas and rural pockets. Inclusive Planning. Case Studies of Urban Redevelopment/Urban Renewal - Singapore and Hong Kong etc. Industrialization and Urban growth and its consequences on Slums. Environmental Improvement of Slums</p>	<p>Poverty Alleviation Programmes Viz. SJSRY and EIUS, BSUP(JNNURM), Livelihood, self-employment ventures, micro-financing (self-help groups), PMAY etc.</p> <p>Urban Community Development Initiatives, Creation of Community Structures, Community Development Society and its role in Poverty Alleviation. Role of Voluntary Agencies and Institutions in Slum Improvement and Slum Dwellers Welfare; Informal Sector and planning for informal sector.</p> <p><u>Tutorial</u> Urban Renewal in Historical and Heritage areas; Natural Areas and rural pockets. HRIDAY, AMRUT, Smart cities etc Inclusive Planning. Techniques for inclusive planning in urban redevelopment Case Studies of Urban Redevelopment/Urban Renewal - Singapore and Hong Kong etc. Industrialization and Urban growth and its consequences on Slums. Environmental Improvement of Slums</p>
<p><u>MTURP. 3.4.2. REAL ESTATE DEVELOPMENT AND URBAN ECONOMICS</u></p>	<p><u>MTURP. 3.4.2. REAL ESTATE DEVELOPMENT AND URBAN ECONOMICS</u></p>
<p>Agglomeration Economics - Internal and external economies of scale, Multiplier effect with reference to regional development. Economic concept of Land - relevance of Land Economics for Spatial Planning. Residential Location Theory. Development of Land- process of land development- Freehold Vs Leasehold- Urban Land Market and Real Estate Market. Socioeconomic and political factors influencing urban land market. Functions of urban land market. Theoretical framework for functions of urban land market Social control of land involving land supply and demand. Need for public intervention with reference to urban Poor. Real Estate Agencies Role of Real Estate in controlling the</p>	<p style="text-align: center;"><u>NO CHANGES</u></p>

<p>demand and supply of urban land. Development Regulations and urban Tax base. Self Assessment of Land Property - Guidance value and land supply.</p> <p>Economics of real estate markets- investment analysis tools like proformas, debt financing of real estate leasing and property management, appraisal and the pricing of goods. Real Estate information system</p> <p>Mortgage market. Role of government and financial institutions and consumers. Techniques of mortgage valuation and pricing. Contract regulations and financing issues. Alternate mortgage instrument.</p> <p>Urban Policies and its impact on real estate. Transfer of Development Rights. Its impact on Real estate.</p> <p>References:</p> <ol style="list-style-type: none"> 1. Staurt Chapin: Urban Land Use planning. 2. Evans A W. Urban Economics - An Introduction 3. Richardson H.W. Analytical Urban Economics. 4. Karnataka State Town and Country Planning Act, recent Amendments and Urban Development Controls and Regulations. 	
<p>MTURP. 3.4.3. PLANNING FOR DISASTER MANAGEMENT</p>	<p>MTURP. 3.4.3. PLANNING FOR DISASTER MANAGEMENT</p>
<p>Lecture</p> <p>Types of Disasters - Natural and Manmade. Floods and flash floods - urban floods- causes and consequences- flood controls.</p> <p>Land Slides, mudflow, forest fires, wild life fires and winter storms</p> <p>Cyclones- cyclone preparedness and Risk Management</p> <p>Characteristics of fire hazard in urban areas- fire spreading- evacuation planning and planning for fireproof structures.</p> <p>Disaster Management- Health issues- Evacuation behavior- current measures- vulnerability assessment- Evacuation planning in all types of natural disasters. Emergency management - alerts and warning- Role of Communications in Alerts and warning.</p> <p>Geo-informatics- use of Remote Sensing in Disaster Management.</p> <p>Role and preparedness of Local Governments and NGO's in</p>	<p style="text-align: center;"><u>NO CHANGES</u></p>

<p>mitigating Urban Disasters. Manmade disasters - Chemical spills, Terrorism and Urban Violence. Action plans to minimize the risks. Special Regulations. Tutorial Identification of Special Areas for Development - Hill Areas; Flood Prone Areas; Drought Prone Areas, Desert Land and Saline Lands- Planning Appraisal and Planning Strategies. References: 1. Thomas D Schnid and Larry Collins: Disaster Management and preparedness. Occupational Safety and Health Guides Services. USA 2. David Alexander: Natural Disasters- University College London, 1991. 3. John P Baston et al: An Ounce of prevention: A Handbook On Disaster Contingency Planning for Archives: 1995. 4. Five Year Plan Reports of Government of India, Planning Commission. 5. K.V. Sundaram: Planning for Hill Area Development - Concept Publishers. 1982 6. R,P, Misra et al: Regional Planning - Concepts and Case Studies, Vikas Publishers. 2001.</p>	
<p>MTURP. 3.5. INTERNSHIP</p>	<p>MTURP. 3.5. INTERNSHIP</p>
<p>COURSE OUTCOME 1) The students will be able acquire Managerial skills by working in the Planning organization by understanding the system and processes</p> <p>The students have to undergo eight weeks internship Training during vacation between II and III Semester. The students are to be deputed to Planning Organisations viz. Planning Authorities,/Development Authorities/ Local Bodies for Practical Learning for the period of 8weeks. The students are required to prepare project report and present before the jury of the Department.</p>	<p style="text-align: center;"><u>NO CHANGES</u></p>

MTURP. 3.5. PLANNING STUDIO III: PREPARATION OF DISTRICT DEVELOPMENT PLAN	MTURP. 3.5. PLANNING STUDIO III: PREPARATION OF DISTRICT DEVELOPMENT PLAN
COURSE CONTENT 1. The students are required for Preparation and presentation of Synoptic Note on Planning Thesis through seminar. 2. The students are required to undertake a Regional Planning exercise by choosing any one of the Regions like Resource Region/River Valley Region/Command Area/ District or Metropolitan Region. The Planning exercise includes base map preparation, resource inventory, economy of the region, special programs and working out goals, formulation of strategies and broad proposals for the development of the Region. The presentation is through Graphs and Charts, Spatial analysis and Report. The students are expected to apply the planning techniques and statistical tools to draw conclusions.	<u>NO CHANGES</u>
FOURTH SEMESTER	FOURTH SEMESTER
MTURP. 4.1. CITY AND METROPOLITAN PLANNING	MTURP. 4.1. CITY AND METROPOLITAN PLANNING
<u>Lecture</u> Urban growth and urbanization- Urbanization in India- past and future trends-Growth Dynamics of urban centers in India; Components of National Urbanization Policy and Recommendations of National Commission on Urbanization; Metropolitan Center; Area and Region- Metropolitanization in India- Physical, economic and demographic characteristics of Metropolitan centers in India. Metropolitan Dominance- Phenomenon of	<u>Lecture</u> Introduction to metropolis and Mega City Regions; Urban growth and urbanization- Trends of Urbanization in India, Complexities: social, economic, physical and administrative; general trends and distribution; Issues and problems in metropolitan planning; Components of National Urbanization Policy and Recommendations of National Commission on Urbanization; Metropolitan Center; Area and Region- Metropolitan Dominance- Phenomenon of Primate cities- Need for

Primate cities- Need for Metropolitan Decentralization- Satellite towns, Ring towns and Counter Magnets;
Metropolitan Plan- preparation and implementation- Metropolitan Regional Plan and Structure Plan approach.
Management of metropolitan areas- Metropolitan Governance- Role of Metropolitan Planning Committee. Overlapping jurisdictions in Metropolitan region;

Tutorial:

The Draft State Urban Development Policy of Karnataka;
Case studies metropolitan centers from India viz. Bangalore, Delhi, Mumbai, Chennai, Kolkata etc;
Role of Special Agencies in Metropolitan Management;
Planning for urban infrastructure in Metropolitan Cities – JNNURM, UIDSSMT schemes.

References:

1. McKenzie: The Metropolitan Community.
2. Hans Blumenfeld: Modern Metropolis, MIT Pennsylvania
3. VLS. Prakash Rao: Structure of Indian Metropolis. ISEC Bangalore.
4. Hall Peter: World Cities; Weidenfeld and Nicholas
5. ITPI New Delhi: Technical Papers of 39th All India T&CP Seminar, 1991.
6. Sivaramakrishan. KC. Metropolitan planning and Management in the Developing world - spatial decentralization policy in Bombay, Cairo and Nairobi. 1993.
7. Devas N. Rakir. C. (Ed); Managing Fast Growing

Metropolitan Decentralization- Satellite towns, Ring towns, Counter Magnets and Desakota Model.
Metropolitan Plan- preparation and implementation- Metropolitan Regional Plan and Structure Plan approach;
Role and function of public participation;
Management of metropolitan areas- Metropolitan Governance- Role of Metropolitan Planning Committee. Overlapping jurisdictions in Metropolitan region;
State Urban Development Policy of Karnataka;
Case studies metropolitan centers from India viz. Bangalore, Delhi, Mumbai, Chennai, Kolkata etc;
Role of Special Agencies in Metropolitan Management;
Planning for urban infrastructure in Metropolitan Cities.

References:

1. McKenzie: The Metropolitan Community.
2. Hans Blumenfeld: Modern Metropolis, MIT Pennsylvania
3. VLS. Prakash Rao: Structure of Indian Metropolis. ISEC Bangalore.
4. Hall Peter: World Cities; Weidenfeld and Nicholas
5. ITPI New Delhi: Technical Papers of 39th All India T&CP Seminar, 1991.
6. Sivaramakrishan. KC. Metropolitan planning and Management in the Developing world - spatial decentralization policy in Bombay, Cairo and Nairobi. 1993.
7. Devas N. Rakir. C. (Ed); Managing Fast Growing Cities: New Approaches to Urban Planning and Management in the developing world. Longman, London 1993.
8. Miles R Smith: Metropolitan Problems, Methuen

<p>Cities: New Approaches to Urban Planning and Management in the developing world. Longman, London 1993.</p> <p>8. Miles R Smith: Metropolitan Problems, Methuen publication. London 1970.</p>	<p>publication. London 1970.</p>
<p>MTURP 4.2.1 URBAN DESIGN AND LANDSCAPE ARCHITECTURE</p>	<p>MTURP 4.2.1 URBAN DESIGN AND LANDSCAPE ARCHITECTURE</p>
<p><u>Lecture</u> Urban Structure and Components of traditional built forms. Its relationship with political, social, cultural, climatic and environmental factors. Basic Elements of Urban Design- Mass, Space and Activity principles, Perceptions and scale in Urban Design. Urban Aesthetics, Visual quality of urban environment, Design and Form, Visual perception and Image of the city- Semiological Theories- meaning of space, Psychological impacts of Urban elements. Urban functions, Urban form, energy and Technology. Futuristic predictions of urban form such as Core City, ring city etc., Urban Design process- Surveys and Analysis, Urban Design and Public policy. Legal controls in urban design and urban aesthetics.</p> <p><u>Tutorial</u> Landscape as an element of Urban Design; Vegetation covers in cities. Vegetation and Human behavior. Trees for urban planting. Principles of landscape design for Parks, Residential areas and commercial Districts. Heritage and monuments and</p>	<p><u>Lecture</u> Urban design and urban planning relationship and introduction to two dimensional and three dimensional spaces and their inter relationship. Urban Structure and Components of traditional built forms. Its relationship with political, social, cultural, climatic and environmental factors. Basic Elements of Urban Design- Mass, Space and Activity principles, scale and proportions, space hierarchy and human anthropometry in Urban Design. Urban art and urban Aesthetics, visual pollutions and Visual quality enhancement of urban environment. Urban Imageability, Visual perception and of the city- Semiological Theories- meaning of space, Psychological impacts of Urban elements. Urban form and functions, Science and Technology interventions on Futuristic urban forms such as Core City, satellite and ring city etc., Urban Design process- Surveys and Analysis, Urban Design and Public policy. Legal controls in urban design and urban aesthetics.</p> <p>Urban morphology and space transformations, Urban regeneration and typology of spaces.</p>

<p>environment- Conservation and regeneration.</p> <p>References:</p> <ol style="list-style-type: none"> 1. Pallonwy: The Urban Nest 2. Halen Rasseneu: The Ideal City 3. Edmund N Bacon: Design of Cities, Thomos Hudson, London 1971. 4. Kevin Lynch: Image of the City, MIT Cambridge 1961. 5. Contemporary Landscapes in the world: Process Architecture Co. Ltd. Tokyo, 1989. 6. John Motloch: Introduction to Landscape Design, Von Nostrand Co. New York 1991. 	<p>Understanding Permeability, Variety, Legibility, Robustness, Visual appropriateness, Richness, Personalisation in urban design.</p> <p>Tutorial</p> <p>Landscape as an element of Urban Design; Vegetation covers in cities. Vegetation and Human behaviour. Trees for urban planting.</p> <p>Principles of landscape design for Parks, Residential areas and commercial Districts. Heritage and monuments and environment- Conservation and regeneration.</p> <p>References:</p> <ol style="list-style-type: none"> 1. Pallonwy: The Urban Nest 2. Halen Rasseneu: The Ideal City 3. Edmund N Bacon: Design of Cities, Thomos Hudson, London 1971. 4. Kevin Lynch: Image of the City, MIT Cambridge 1961. 5. Contemporary Landscapes in the world: Process Architecture Co. Ltd. Tokyo, 1989. 6. John Motloch: Introduction to Landscape Design, Von Nostrand Co. New York 1991. 7. Responsive environments - A manual for designers, by Ian Bently, Alan Alcock, Paul Murrain, Sue McGlynn, Graham Smith
<p><u>ELECTIVE (DISCIPLINE CENTRIC)</u></p> <p>MTURP.4.2.2. VILLAGE PLANNING AND RURAL DEVELOPMENT</p> <p><u>Lecture</u></p> <p>Nature of rural communities - Structure and forms of rural settlements.</p> <p>National planning and rural development.</p> <p>Rural economy - Planning for rural economic base.</p>	<p><u>ELECTIVE (DISCIPLINE CENTRIC)</u></p> <p>MTURP.4.2.2. VILLAGE PLANNING AND RURAL DEVELOPMENT</p> <p><u>Lecture</u></p> <p>Nature of rural communities - Structure and forms of rural settlements.</p> <p>National planning and rural development.</p> <p>Rural economy - Planning for rural economic base.</p>

<p>Agriculture and other primary sector. Rural Local Governments and rural Institutions in development activities- 73rd Constitution Amendment Act and its impact on rural development Evaluation of rural development programs of central and state governments like MGNREGA, PMGSY, NBA, NRHM, Bharat Nirman etc. Planning for rural infrastructure - Energy, roads, water supply, sanitation and rural services - Agro services.</p> <p>Tutorial Appropriate Technology for rural development like use of local resources, Rain water Harvesting, water recharge and soil conservation and waste land development. Village Industries and village trade and services.</p> <p>References:</p> <ol style="list-style-type: none"> 1. K.V. Sundaram: Rural Area Development, Concept Publishers, New Delhi. 2. IIPA: Rural Administration. 3. Government of Karnataka: Karnataka Panchayat Raj Act. 4. H.A. Hye: Integrated approaches to Rural Development. Sterling Publishers, New Delhi 1986. 5. B.S. Khanna: Rural Development in South Asia. Allied Publishers New Delhi 1991. 6. R.P. Misra (Ed); Rural Development and National policies and Experiences. UNCRD Nagoya 1981. 	<p>Social, economic and ecological constraints for rural development Rural Local Governments and rural Institutions in development activities- 73rd Constitution Amendment Act and its impact on rural development Sustainable rural development. Evaluation of rural development programs of central and state governments like MGNREGA, PMGSY, NRHM, SBA, NRLM, PMAY(G), Rurban Mission etc. RADPFI Guidelines- Norms and Standards. Guidelines for preparation of Gram Panchayat Development Plans. Monitoring and Evaluation of anti-poverty programmes - Best Practices across the Globe. Planning for rural infrastructure - Energy, roads, water supply, sanitation and rural services - Agro services.</p> <p>Tutorial Appropriate Technology for rural development like use of local resources, Rain water Harvesting, water recharge and soil conservation and waste land development. Village Industries and village trade and services.</p> <p>References:</p> <ol style="list-style-type: none"> 1. K.V. Sundaram: Rural Area Development, Concept Publishers, New Delhi. 2. IIPA: Rural Administration. 3. Government of Karnataka: Karnataka Panchayat Raj Act. 4. H.A. Hye: Integrated approaches to Rural Development. Sterling Publishers, New Delhi 1986. 5. B.S. Khanna: Rural Development in South Asia. Allied Publishers New Delhi 1991. 6. R.P. Misra (Ed); Rural Development and National policies and Experiences. UNCRD Nagoya 1981.
---	--

MTURP 4.3. PLANNING THESIS	MTURP 4.3. PLANNING THESIS
<p>COURSE CONTENT</p> <p>Planning Thesis will be individual work to be carried out by students. The students will have to choose the topic for Thesis during the III Semester in consultation with the Faculty. Each student is assigned a faculty for supervision/Guidance. The thesis work covers Report, Plan Drawings, Graphs and Charts. The student has to defend his or her work before a Jury consisting of Chairman BOE, Guide, internal and external Examiners. The typed copy of the thesis (Three copies of both hard and soft copies) will have to be submitted one day before the Defense Examination and the Thesis Defense examination will have to be held within one month before the last Theory Paper Examination in IV Semester. Thesis carries 400 marks of which 200 marks for continuous assessment internally and 200 marks for Planning Thesis Examination.</p>	<p style="text-align: center;"><u>NO CHANGES</u></p>