

Autonomy 2022

MASTER OF PLANNING (URBAN PLANNING)

SEMESTER I

Course code	Course Name	L-T-P - Credits	Year of Introduction
22MPC101	Urban Planning: History, Theory & Systems	2-1-0-3	2022
Course Objectives - To introduce the discipline of planning and planning history - To expose planning theory and practice - To make aware of the institutional mechanism involved in planning and implementation process			
Syllabus Introduction to planning, Overview of planning from pre history to current, Planning theories, Urbanisation in India and evolution of planning, Institutional mechanisms for planning in India			
Expected outcome. Students will be able to - Understand the planning process, theory and practice and its role in planning of cities - Appreciate of the role of historical developments in planning and its evolution and trace these influences to the current situation - Understand the institutional mechanisms involved in urban planning - Develop capacity to understand multiple often conflicting factors to be balanced in planning for an urban area			
References: - Arthur B. Gallion (2003) The Urban Pattern 5th edition, CBS Publishers & Distributors. - AEJ Morris (2013) History of Urban Form Before the Industrial Revolution - Urban and Regional Development Plans Formulation & Implementation Guidelines (2014) Ministry of Urban Affairs & Employment, Govt. of India, New Delhi - Aidan Southall (1998) The City in Time and Space Cambridge University Press - Le Corbusier Courier Corporation (1987) The City of To-morrow and Its Planning - John M. Levy (2011) Planning theory, Contemporary Urban Planning, 9th Ed., Upper Saddle River, NJ - Ebenezer Howard (1965) Garden Cities of Tomorrow. London: Faber and Faber - Ernest R. Alexander (1992), Approaches to Planning: Introducing Current Planning Theories, Concepts and Issues. Philadelphia: Gordon and Breach Science Publishers R. Ramachandran (1991), Urbanization and urban systems in India, Oxford University Press - Peter Hall, Mark Tewdwr-Jones (2010) Urban & Regional Planning, Routledge - Jane Jacobs (1989) Death and Life of American cities, Knopf Doubleday Publishing Group			

Course Plan			
Module	Contents	Hours	Sem. Exam Marks
I	Introduction to planning Purpose, scope and limitations of settlement planning; planning process, definitions of key terms in planning - City and region, rural-urban fringe, rural urban continuum, urbanisation and impact on planning, planning process, sub fields within planning – housing, transportation, environmental planning, regional planning, etc	6	15%
II	Planning history – Pre historic & Ancient Need to study history of planning and evolution of human settlements; ; Hunter, gatherer, farmer and formation of organised society; origins and growth of cities; Basic elements of the city; Historic determinants of settlement evolution: - geographical, climatic, socioeconomic, cultural, political, defensive, etc. Human settlements as an expression of civilizations; Ancient civilizations – Egypt, Mesopotamia, Greek,	8	15%
FIRST INTERNAL EXAMINATION			
III	Planning history – Medieval to current Medieval, Renaissance, Industrial and post industrial cities; Contribution of individuals to city planning: Patrick Geddes, Lewis Mumford, Le Corbusier, Frank Lloyd Wright, C.A. Doxiadis, Clarence Perry, Peter Hall, etc;	7	15%
IV	Planning theories Theory of city form: normative models – cosmic, machine, organic; Concentric Zone Theory, Sector Theory, Multiple Nuclei Theory; Ebenezer Howard’s Garden City Concept; Land use and land value theory of William Alonso. Modes of planning – blue print, synoptic, incremental, transactive, advocacy, participatory, mixed scanning; political economy approach - communicative model, new urbanism, and just city. Emerging Concepts: global city, information city, inclusive city, safe city, shadow city, divided city, sustainable city.	7	15%
SECOND INTERNAL EXAMINATION			
V	Urbanisation in India and evolution of planning History of urbanisation in India – ancient, medieval, pre colonial, colonial, new towns; spatial patterns of urbanisation, settlement systems, classification of cities; Character of Indian cities and challenges involved in planning; Urban planning and five year plans, urbanisation policy	7	20%
VI	Institutional mechanisms Planning system in India and changes in institutional provisions over time; authorities and administrative setup and mechanisms for planning, implementation and evaluation and levels of hierarchy; Types of plans – master plans, development plans, etc.; Comparison with planning systems of UK and USA	7	20%
END SEMESTER EXAM			

Course code	Course Name	L-T-P - Credits	Year of Introduction
22MPC102	PLANNING TECHNIQUES	1-2-0-3	2022
Course Objectives To make students aware of - different survey techniques and map preparation - analytical methods used in planning - different methods of population forecasts and projections - Spatial standards, URDPFI guidelines, zoning regulations and development control rules and regulations.			
Syllabus Survey Techniques and Mapping- Analytical Methods- Demographic Methods- Planning Standards			
Expected outcome. Students will be - able to prepare base maps , classify and delineate region - equipped with necessary information on town planning theories, principles, techniques and methodologies.			
References: - Donald A. Kruekeberg and Arthur L. Silvers, Urban Planning Analysis: Methods and Models, John Wiley & Sons Inc. - Ian Braken , Urban Planning Methods, Routledge - Lewis B. Keeble , Principles and Practice of Town and Country Planning, Estates Gazette Ltd. - Margaret Robert, An introduction to Town planning Techniques, Hutchinson Educational, Hutchinson			
COURSE PLAN			
Module	Contents	Hours	Sem Exam Marks
I	Planning terms and definitions - Planning theories and their applications in settlement planning (Master Plans, Development Plans, Structure Plans physical, economic and social plans) Concepts of Zonal Plans, Area Development Plans and Development Schemes: Urban Renewal, Redevelopment, City Development Plans, Planned Unit Development etc. Concepts of land use, zoning regulations, mixed use development.	7	15%
II	Data base for physical surveys including land use, building use, density, building age, etc., and socio-economic surveys; Sampling and survey techniques; Land use classification or coding and expected outputs;	7	15%

	Techniques of preparing base maps including understanding the concepts of scales, components and detailing for various levels of plans like regional plan, city plan, zoning plan, and local area plan. Land information systems including GIS – aerial photography, remote sensing, photogrammetry, photo interpretation and mapping		
FIRST INTERNAL EXAMINATION			
III	Classification of regions, delineation techniques of various types of regions, ranking of settlements; Guttman's Scalogram, Desire line diagrams, Threshold analysis: Input output analysis, SWOT analysis: Planning models (descriptive and decision making models),etc.	7	15%
IV	Methods of population forecasts and projections; Lorenz Curve , Ginni Ratio, Theil's index, ratios: urban – rural, urban concentration, metropolitan concentration; Location dimensions of population groups – social area and strategic choice approach – inter connected decision area analysis	7	15%
SECOND INTERNAL EXAMINATION			
V	Spatial standards, performance standards and benchmarks, and variable standards; URDPFI guidelines, zoning regulations/ordinances and DCR and (development control rules and regulations)	7	20%
VI	Newer approaches /Techniques in settlement planning: Land pooling ,land assembly, PRT(Plot reconstitution techniques), land readjustment, Transfer of Development Right Various approaches to urban land zoning (mixed zone, floating zone, white zoning etc. TOD(Transit Oriented Development),New Urbanism and PIU (Principles of Intelligent Urbanism),Public participation in planning process	7	20%
END SEMESTER EXAM			

Course code	Course Name	L-T-P - Credits	Year of Introduction
22MPC103	HOUSING	2-1-0-3	2022
Course Objectives - To expose the various issues related to Housing. - To introduce the basic terms, Concepts and Socio-economic dimensions of Housing.			
Syllabus Concepts and Definitions- Elements of Housing- Habitat Agenda-Social and Economic dimensions of Housing-Housing as components of city's land use-Public housing, social housing - Informal housing-Housing environments and typologies			
Expected outcome. Students will - be able to appreciate the housing sector as an integral part of overall town planning system - have a basic understanding of housing at the neighbourhood and City Level - able to appreciate typologies of housing in relation to culture and environment factors.			
References: - Habitat Agenda - Dwyer, D.J., People and Housing in Third World Cities, 1981 Orient Longman - Beyer Glen H., Housing ; a factual Analysis 1958, The Macmillan Co.,NY - Abrams, Charles. Man's Struggle for Shelter in an Urbanising World 1964 MIT, Harvard - Payne, Geoffrey. Urban Housing in the Thrid World 1977 Routledge and Keegan Paul, USA - Al Nichols, Jason Laros. Inside the Civano Project (Green Source Books): A Case study of Large-Scale Sustainable Neighbourhood Development (McGraw-Hill's Green source Series) 2009 McGraw – Hills Professional - Douglas Farr. Sustainable Urbanism: Urban Design with Nature John Wiley & Sons - Aromar Revi. Shelter in India – Sustainable Development Series 1990 StusiusInc / Advent Books Division - International Institute of Energy Conservation Eco housing Assessment criteria Version II USAID			

COURSE PLAN			
Module	Contents	Hours	Sem Exam Marks
I	Concepts and Definitions Concept of housing, Relevance of housing, Shelter as a basic requirement, Determinants of housing, definitions. Habitat Agenda, Global-housing Challenges. Introduction to economics of housing, housing stock, housing shortage, housing need and demand. Affordability – household income & housing – Issues related to housing the poor, houseless population, Slums & Informal settlements.	7	15%
II	Housing typologies based on materials, form and characterises of construction Structural conditions, materials of construction, housing age, dilapidation, obsolescence, occupancy rate, traditional houses, plotted development, group housing, multi-storied housing, villas etc.	7	15%
FIRST INTERNAL EXAMINATION			
III	Social and Economic Dimensions Housing and social security, role of housing in development of family and community well-being, status and prestige related to housing, safety, crime and insecurity, deprivation and social vulnerability. Gender dimensions of housing, housing for elderly. Contribution of housing sector to national wealth, GDP and employment creation, housing finance. Housing in the National plans	7	15%
IV	Housing and Human Settlements Understanding housing as an important land use component of city development plan /master plan, location of residential zones in relation to other land use zones in the city, considerations for carrying out city level housing studies. Population and household projections, estimation of future housing requirements. Land use provisions, suitability of land for housing. Factors contributing to housing stress and stress analysis.	7	15%
SECOND INTERNAL EXAMINATION			
V	Housing Environment Housing for the poor, Slums and squatters, informal sector housing, Caste, Ethnic and Class groupings & segregation in housing, Access to infrastructure, services and facilities in housing areas – public health issues – Housing Environment and General Welfare – Residential satisfaction & factors contributing to residential satisfaction	7	15%
VI	Theories and Approaches in Housing Green Housing, Sustainable housing, Green Ratings (LEEDS, GRIHA etc.). Climatology in Housing, Ventilation & Lighting, Housing in various climatic regions. Low-rise and high-rise developments, density considerations, Neighbourhood & cluster considerations in traditional and contemporary housing. Housing Norms and Standards: National Building Code, URDPFI Guidelines, CPHEEO (MoUD) Standards, Concept of Habitable Room, Habitable Dwelling Unit.	7	15%
END SEMESTER EXAM			

Course code	Course Name	L-T-P - Credits	Year of Introduction
22MPH101	Research Methodology and Analytical Methods	2-1-0-3	2022
Course Objectives - To Introduce the various paradigms of research - To familiarise various research methods, analyses employed, and methods of interpretation of results - To introduce statistical methods of sampling and analysis - To familiarise ways of research reporting			
Syllabus Introduction - Research Paradigms - Types of research - Literature studies - Research Design - Research Methods - Types of Analysis - Interpretation - Analytical Methods- Qualitative and quantitative methods -Examples of research methods in relevant fields- Architecture, Planning, Infrastructure Planning, Housing and Urban Design - Statistical methods- Types of sampling – Analysis- Interpretations - Statistical packages.			
Expected outcome. Students will be able to - Formulate Research questions - Develop Research Design for their specific Research question - Carry out primary studies in structured manner - Identify the appropriate methods for analysis - Prepare research reports, Thesis reports and scholarly articles			
References: - Babbie Earl (1983), The Practice Of Social Research third edition, Wadsworth Publishing Co., Belmont, California. - Creswell John W. (1994) Research Design: Qualitative Approaches , Sage publications. - Creswell John W. (2003) Research Design: Qualitative, Quantitative and Mixed Methods Approaches , Sage publications. - Denzin, Norman K.; and Lincoln, Yvonna S.; (Eds.). (1994). Handbook of Qualitative Research Sage Publications, London, New Delhi - Dwivedi , R.S.(1997) Research Methods in Behavioral Sciences Macmillan India Limited - De Vaus D.A (2002) Surveys In Social Research Rawat Publications Jaipur and New Delhi - Nachmias, Chava Frankfort & Nachmias, David Research Methods in the Social Sciences St. Martin's Press, New York - C.R Kothari, Research Methodology, Sultan Chand & Sons, New Delhi,1990 - Panneerselvam, "Research Methodology", Prentice Hall of India, New Delhi, 2012. - J.W Bames," Statistical Analysis for Engineers and Scientists", McGraw Hill, New York. - Leedy P D, "Practical Research: Planning and Design", MacMillan Publishing Co. - Day R A, "How to Write and Publish a Scientific Paper", Cambridge University Press, 1989 - Sople," Managing Intellectual Property: The Strategic Imperative, Prentice Hall of India, New Delhi, 2012.			

COURSE PLAN			
Module	Contents	Hours	Sem Exam Marks
I	Introduction, Research Paradigms, Types of research, Literature studies, Literature map, Identifying gap areas from literature review Development of working hypothesis, Formulating research problem, Referencing styles	8	15%
II	Need for Statistical methods in research, Types of sampling, Sample size, Statistical Analysis, Descriptive, Inferential and Predictive statistics, Data distribution, measures of central tendency and data dispersion	6	15%
FIRST INTERNAL EXAMINATION			
III	Research Design, Features of a good design, Qualitative and quantitative research designs Examples of research designs in relevant fields- Architecture, Planning, Housing and Urban Design	8	15%
IV	Testing of Hypothesis, Statistical errors in Hypothesis testing, Need for Anova, Chi Square tests, Correlation and Regression,	6	15%
SECOND INTERNAL EXAMINATION			
V	Methods of data collection – Documents, Observation, Surveys, Experiment, Types of data and measurement Qualitative Research methods, Data collection and analysis, Grounded theory, Ethnography, Phenomenology Types of Analysis, Interpretation and Generalization. Ethics in Research, plagiarism, Intellectual Property rights, Preparation of Research proposals and reports, Dissertation, Thesis, Scholarly articles	9	20%
VI	Statistical analysis using software	5	20%
END SEMESTER EXAM			

Course code	Course Name	L-T-P - Credits	Year of Introduction
22MPH102	Socio Economic Basis for Planning	1-2-0-3	2022
Course Objectives To create an understanding of the relationship between sociology and urban planning & the relative significance of social, geographical, biological and economic factors in shaping the urban environment.			
Syllabus Nature and scope of sociology – Introduction to the sociological concepts -Sociology of India - Rural-Urban continuum and dichotomy - Socio economic transformation- Basics of Economics – The economy of urban areas-urban resources - Basic concepts in macro-economics- Economics of scale-external economics-National and State five year plans – NITI Ayog Population studies – Migration analysis- population forecasts and projections			
Expected Outcome The student will - Understand the relationship between sociology and urban planning - Have an insight in to social, geographical, biological and economic factors that shapes the urban environment			
References - Dr. A.N. Sachithanandan, Socio Economic Base for Planning – Teaching Material prepared by for the Institute of Town Planers, India. - Vidya Bhushan & Prof. D.R. Sachdeva – An Introduction to Sociology – Kutab Mahal Publishers. - Dr. Ashal A. Bende & Mrs. Tara Kanitkar, Principles of Population Studies, Himalaya Publishing House, Bombay. - Dand M. Heu – Society& Population – Eastern Economy Edition, 1978. - Smith, Wallace F., Housing: The Social and Economic Elements, University of California Press, 1971.			
COURSE PLAN			
Module	Contents	Hours	Sem Exam marks
I	Nature and scope of sociology – basic concepts like family, institution, group, association, community, social process, social norms, social structure, social stratification etc. Introduction to the sociological concepts of Marx, Talcot, Parsons, Weber, Durkheim, Riesman, Jacobs.	7	15%

II	Indian society - Culture, language, religion, caste, rural community and its relationship with urban community, agrarian and industrial societies characteristics of urban and rural poverty.	7	15%
FIRST INTERNAL EXAMINATION			
III	Patterns and trends in Indian urbanization Urban social structure and stratification, dynamics of growth and change and its role.	8	15%
IV	Socio-economic transformation, social problems of urban poor, slums, social planning, policies and programmes.	6	15%
SECOND INTERNAL EXAMINATION			
V	Basics of Economics – Concepts of economics and economic growth and development, GDP, GNP, per capita income, inclusive development,; demand and supply, production economics, economies of scale; urban and regional growth, land economics and land use planning. Introduction to economics of urban areas; Basic concepts of macro-and micro-economics. Economic and spatial planning in India	6	20%
IV	Population and demography – population issues in India – source of demographic Population data capturing in India (Population census, Civil Registration systems, Sample registration systems etc). Population characteristics and structure, composition, occupational structure, determinants of population growth, Migration and its implication in settlement development and planning,- population forecasts and projections	8	20 %
END SEMESTER EXAM			

Course code	Course Name	L-T-S-Credits	Year of Introduction
22MPS101	PLANNING STUDIO -I	0-0-12-6	2016
Course Objectives - To develop ability to critically analyse relevant literature and field conditions - To expose students to application of planning techniques - To enable students to understand reporting structure and develop communications skills in technical aspects - Understand and contextualize the location of the area in relation to the city, zone and area in which the particular place is situated.			
Syllabus Literature review in disciplines related to planning, Site Planning and Appraisal of urban/rural areas, development of communication skills – Map preparation, Report writing and Presentation skills			
Expected outcome. Students will be able to - Critically analyse relevant literature and field conditions - Apply planning techniques and prepare of plans at layout/zone/part of settlement level - Develop capacity to understand complex and interrelated factors to be considered in spatial planning - Develop ability in technical communication			
References: - Urban and Regional Development Plans Formulation & Implementation Guidelines (2014) Ministry of Urban Affairs & Employment, Govt. of India, New Delhi - Aidan Southall (1998), The City in Time and Space, Cambridge University Press - Ernest R. Alexander (1992), Approaches to Planning: Introducing Current Planning Theories, Concepts and Issues. Philadelphia: Gordon and Breach Science Publishers R. Ramachandran (1991), Urbanization and urban systems in India, Oxford University Press - Peter Hall and Mark Tewdwr-Jones (2010) Urban & Regional Planning - Jane Jacobs (1989) The Death and Life of Great American Cities Knopf Doubleday Publishing Group - James A. LaGro, Jr. (2013) Site Analysis: Informing Context-Sensitive and Sustainable Site Planning and Design, John Wiley & Sons - Anastassios Perdicoulis (2011) Building Competences for Spatial Planners: Methods and Techniques for Performing Tasks with Efficiency, Taylor & Francis			

Course Plan			
Module	Contents	Hours	Sem Exam Marks
I	Literature review - research papers, book chapters, books, journals, documents, reports, etc. Preparation of a concise report is expected. Minor project – Understanding rural and urban character through area (layout/zone/part of settlement) study. The project serves to expose the student to data collection, field work, interaction with relevant stakeholders, teamwork, critical analysis, presentation of study – verbally and illustratively, preparation of report. Major project - Area planning exercise (green or brown field development) –part of a city with multiple uses, housing areas, urban rural interfaces, etc., involving interplay of complex conditions Building on the previous exercise, the project involves a planning approach using norms and standards to make to student understand the basic principles of settlement planning as gleaned from theoretical study undertaken during semester The process should provide opportunity for multidisciplinary approach to tackle the manifold factors to be considered in spatial planning to achieve balanced development	180	100

AUTONOMY 2022
MASTER OF PLANNING (URBAN PLANNING)

SEMESTER II

COURSE CODE	COURSE NAME	L-T-S	CREDITS	YEAR OF INTRODUCTION	
22MPC201	City & Metropolitan Planning	1-2-0	3	2016	
Course Objectives	- To create an understanding about growth of cities, metro & mega cities, their characteristics & problems - To create a background about various strategies & tools used for process of plan making at different levels				
Syllabus	Urban growth & systems of cities, city-region linkages , metropolitan growth, metro & mega cities: problems & issues, Planning theories, policies and programmes , Alternative strategies to metropolitan growth				
Expected Outcome	The students will be able to •Understand City – Region Linkages and problems of Metro and Mega Cities. •Understand spatial planning approaches and institutional mechanisms involved in city & metropolitan planning				
Reference Books	1. Aurthur J. Gallion, Simon Eisner, The Urban Pattern, Van Nostrand Reinhold; 5 Sub edition (February 1986) 2. Bawa, V. K. ,(1987),Indian Metropolis: Urbanization, Planning and Management, Inter-India Publications, New Delhi 3. City and Metropolitan Planning and Design, ITPI, New Delhi 4. Ernest R. Alexander (1992), Approaches to Planning: Introducing Current Planning Theories, Concepts and Issues. Philadelphia: Gordon and Breach Science Publishers 5. John L, Taylor and David G. Williams, 1982. Urban Planning Practice in Developing Countries, Pergamon Press, Oxford. 6. John M. Levy (2011), Planning theory, Contemporary Urban Planning,9th Ed., Upper Saddle River, NJ 7. Miles R. Simon, 1970, ‘Metropolitan Problems’ Methuen Publications, Canada 8. Ministry of Urban Affairs & Employment, Govt. of India, New Delhi, Urban and Regional Development Plans Formulation & Implementation Guidelines.				
COURSE PLAN					
Module	Contents			Hours	End Sem. Exam Marks
I	Urban growth & systems of cities Cities as engines of growth, cities as ecosystems, resources in cities. Growth of metropolitan and mega cities – scale, complexity and its impact on national development.			7	10%
II	City-region linkages City, fringe and the periphery - physical and functional linkages- peri-urban development, Multi-nuclei developments: hierarchy of urban centers and their functional linkages.			7	15%

FIRST INTERNAL TEST			
III	Metropolitan growth characteristics Trends, characteristics, theories on growth of human settlements, Metropolis, Dynapolis and Megalopolis, emerging social and economic characteristics of the central city and the suburbs, special problems of the central area; migration and sub-urban development	8	20%
IV	Metro & mega cities: problems & issues Issues related to diversity and unintended growth-economic, social and environmental sustainability-quality of life, inclusivity and equity- climate change, transit oriented development, participatory planning	6	15%
SECOND INTERNAL TEST			
V	Planning theories, policies and programmes Contemporary theories, concepts, policies and programmes in city & metropolitan planning at various levels, Plan making process, Case studies of metropolitan planning in India and abroad	8	20%
VI	Alternative strategies to metropolitan growth Planning for New towns: types, design criteria, development process and issues. New town approach in India: small and medium town development	6	20%
END SEMESTER EXAM			

COURSE CODE	COURSE NAME	L-T-S	CREDITS	YEAR OF INTRODUCTION
22MPC202	Infrastructure, Traffic and Transportation Planning	2-1-0	3	2022
Course Objectives	• To develop an insight amongst students on components, process and financing mechanisms of infrastructure development and its impact on qualitative and quantitative aspects of built environment and related social and economic issues. • To impart skills in the field of infrastructure management, which are essential in a neo-liberal privatizing world. This course will equip them in understanding and managing the multi-service-provider environment that is emerging in various infrastructure. • To impart knowledge on understanding of urban transportation problems in planner's perspective. Definition of problem, setting clear goals and objectives to serve as guiding factors in planning and management process.			
Syllabus	Concepts in Infrastructure, Physical and Social Infrastructure, Infrastructure Management and Planning issues, Traffic and Transportation Planning Process.			
Expected Outcome	The students will gain i. The skills in understanding the infrastructure provision at various levels ii. Knowhow on conflicts in provision and maintenance iii. Concepts of infrastructure management at various levels			
Reference/ Text Books	1. Adjo A. Amekudzi, Sue McNeil, "Infrastructure Reporting and Asset Management: Best Practices and Opportunities", American Society of Civil Engineers, 01-Jan-2008. 2. AK Jain, "Urban Transport: Planning and Management", Aph Publishing Corporation (2008) 3. India Infrastructure Reports. 4. Jay M. Stein "Public Infrastructure Planning and Management", Sage Publications (1988). 5. Kadiyali L.R. "Traffic Engineering and Transport Planning", Khanna Publishers, New Delhi, 1991 6. Peter Schübeler "Participation and Partnership in Urban Infrastructure Management," World Bank Publications, 01-Jan-1996. 7. Piyush Kansal, "Reading material on Advanced Transportation Planning", ITPI, 1998 8. Proceedings of two parallel conferences, "Infrastructure planning and management", Jonathan Lewis Gifford, D. R. Uzarski, Sue McNeil, American Society of Civil Engineers. Committee on Facility Management, American Society of Civil Engineers. Committee on Urban Transportation Economics, June 21-23, 1993, Denver, Colorado. 9. URDPFI Guidelines Vol 1. 10. William W. Hay, "An Introduction to Transportation Engineering", John Wiley & Sons Inc., NY.			

COURSE PLAN			
Module	Contents	Hours	End Sem. Exam Marks
I	Concepts in Infrastructure Elements of Infrastructure (Physical, Social, Utilities and services); Basic definitions, concepts, significance and importance; Social and Physical infrastructure- components-qualitative and quantitative techniques of assessing requirements, Planning Amenities and institutions- Public and private sector role in resource mobilization and infrastructure development and related issues. Financing mechanism associated with infrastructure development. National and International agencies involved in infrastructure provisions.	6	15%
II	Physical Infrastructure Water – sources of water, treatment and storage, transportation and distribution, quality, networks, distribution losses, water harvesting, recycling and reuse, norms and standards of provision, institutional arrangements, planning provisions and management issues. Sanitation – points of generation, collection, treatment, disposal, norms and standards, grey water disposal, DEWATS, institutional arrangements, planning provisions and management issues. Storm water – rainfall data interpretation, points of water stagnation, system of natural drains, surface topography and soil characteristics, ground water replenishment, storm water collection and disposal, norms and standards, institutional arrangements, planning provisions and management issues. Municipal and other wastes –generation, typology, quantity, collection, storage, transportation, treatment, disposal, recycling and reuse, wealth from waste, norms and standards, institutional arrangements, planning provisions and management issues. Power – Sources of power procurement, distribution networks, demand assessment, norms and standards, planning provisions and management issues. Fire – History of fire hazards, vulnerable locations, methods of fire fighting, norms and standards, planning provisions and management issues. Social Infrastructure Education, Health, Civic Types, hierarchical distribution of facilities, Access to facilities, provision and location criteria, Norms and standards etc.	8	!5%
FIRST INTERNAL TEST			

III	Infrastructure Management: Planning Issues Managing infrastructure development, corporatization and related goals, Equity, Access, level and Efficiency, Quality of Service, Paying Capacity, Pricing of Infrastructure Services. Ownership and Control: Public, Private, SPV, and PPP Models in infrastructure provision, Multi-service providers and their operation at various levels. Infrastructure Policy: Regulatory and Facilitative, Investment Requirement at various levels and actual investments in Infrastructure. New opportunities and initiatives in infrastructure development and management- case studies from Asian cities of successful and innovative infrastructure provisions and equitable economic development, management and maintenance schemes.	7	15%
IV	Traffic & transportation planning Role and relevance of traffic & transportation planning in national development- features of urban forms and network patterns- Historical overview of transport development. Design and operational characteristics of transport modes and systems. Road user and the vehicle. Future developments in transport sector- Geometric Design of roads and intersections- classification of roads, Hierarchy of roads, Design of Road layout, Road capacity, traffic & travel characteristics.	7	15%
SECOND INTERNAL TEST			
V	Urban Traffic Road traffic safety- factors affecting Road safety- segregation of pedestrian & vehicular traffic - Traffic signals, signages, street furniture, street lighting-types- standards and design considerations- Urban traffic problems, Parking issues.- Accident Reporting and recording systems, Intelligent Transport systems	6	20%
VI	Transportation Planning Process Transportation planning process- problem definition, Solution generation and and Implementation - Trip generation, Trip distribution, Trip assignments, modal split and evaluation. Transportation surveys- land use, speed and journey time and delay surveys – Traffic volume surveys- O.D Surveys- Parking survey- Transportation survey etc. Comprehensive Traffic and Transport Study (CTTS) and Comprehensive Mobility Plan (CMP). Use of Analytical Models for Transportation planning- Landuse transport inter-relationship-Landuse Transportation models- Traffic and Environment Management Techniques- Traffic noise, air pollution- its measures & standards. Management of Transport system- Existing organization and legal framework. Review of Existing Traffic Management Schemes in India through case studies	8	20%
END SEMESTER EXAM			

COURSE CODE	COURSE NAME	L-T-S	CREDITS	YEAR OF INTRODUCTION
22MPC203	Planning Legislation & Governance	2-1-0	3	2016
Course Objectives	- To make the students aware of the concept of legislation as the back-bone of any planned development. - To create awareness about the critical laws used in India and their salient features. - To make the students aware of the governance mechanisms involved in development planning, administration and management.			
Syllabus	Introduction to Law and Legislation, significance of law and its relation to planning, salient features and implications in development of important laws, Concept of Government and Governance, Institutions and processes followed in India, Good governance and new forms of governance with best practices.			
Expected Outcome	The students will have acquired knowledge about the process of planning and governance in India and the critical laws that influence them.			
Reference Books	1. A.Joshi, Town Planning Regeneration of Cities. 2. Jain R B, Public Administration in India, 21st Century Challenges for Good Governance, Deep and Deep Publications. PVT. LTD., 2002 3. Manoj Sharma, Local Government Rural and Urban, Anmol Publications Pvt Ltd., New Delhi, 2004 4. Mario Pinto, Metropolitan City Governance in India, Sage Publications, New Delhi, 2000 5. Ministry of Health, Government of India - Report of the Committee on Model Planning Legislation. 6. Mohammad Naseem, Environmental Law in India, Kluwer Law International, 2011 7. Pai Panadiker V A, Governmental Systems and Development, S N Mishra, Sweta Mishra, Chaitali Pai, Decentralised Planning and Panchayati Raj Institutions, Mittal Publications, A-110, Mohan Garden, New Delhi, 2000. 8. Tyagi R Public Administration, Principles and Practices, Atma Ram & Sons 9. URDPFI Guidelines, Govt of India, Ministry of Urban Development, www.moud.gov.in 10. Viswambar Nath, Administration and Development Planning in India			

COURSE PLAN			
Module	Contents	Hours	End Sem. Exam Marks
I	Meaning of terms of law, legislation, ordinance, bill, act, regulation and bye-laws. Significance of law and its relationship to urban planning - Benefits of statutory backing of schemes - Law of eminent domain and police powers - Evolution of planning legislation – A brief History of Planning Legislation in India and Abroad. Constitutional basis and provisions relating to land its development and its use – Statutory powers and responsibilities of Central Government, State Governments, Union Territories, Local Bodies and Local Authorities with respect to urban development and their legal structure.	6	10%
II	Town and Country Planning Act - Its implication on preparation and implementation of regional plans, development plans, town planning schemes, area plans etc. Critical Appraisal of Improvement Trust Act, Development Authorities Act, Land Acquisition Act 1986, Urban Land (Ceiling and Regulation) Act 1976, Slum Clearance/Slum Improvement Act, Rent Control Act, legislations on conservation of natural and manmade resources including Coastal Zone regulations, Air and Water (Prevention and Control) of Pollution Act, Mining and Forestry act, Conservation and management of ancient monuments and archeological sites and remains Act, 73rd and 74th Constitutional Amendment Acts, Legislations for public-private partnerships in urban development and infrastructure projects. Implications of the Acts on development. Overview of development control regulations – zoning, sub division regulations, building regulations and bye-laws.	8	20%
FIRST INTERNAL TEST			
III	Governance: Definition, concepts and components, Government and governance, salient provisions in the Constitution of India. Governance systems in India - Overview of urban and rural governance structure in India, evolution, processes and the role of - The Planning Commission, National Development Council, NITI Ayog and their role in framing development policies.	8	20%

	Role of states in planning processes: facilitative, regulatory and other powers, decentralization of powers after the 73 rd and 74 th CAA, Local institutions in the governance process. Post 73 rd and 74 th Constitution Amendment Act environment and the modified role and functions of local bodies, local authorities, district authorities and state level agencies, case examples.		
IV	Institutional framework for urban and rural development planning, TCPO and various national level committees and commissions on urbanisation, state level institutions like metropolitan/urban development authorities, regional planning and district level organisations	6	10%
SECOND INTERNAL TEST			
V	Participatory governance, people's participation, role of people's participation in the planning process, other stakeholders like NGO's, civil society, private sector, scientific network, international institutions etc. process of inclusion and exclusion in governance, access to government by various stakeholders	6	20%
VI	Principles of good governance and practices, new forms of governance, effectiveness of E- governance mechanisms, role of advanced locality management, resident welfare associations and other such agencies in urban governance system. International and National best practices on participatory governance and development planning.	8	20%
END SEMESTER EXAM			

COURSE CODE	COURSE NAME	L-T-S	CREDITS	YEAR OF INTRODUCTION
22MPC204	Regional Planning and Resource Development	2-1-0	3	2022
Course Objectives	• To introduce students to the discipline of regional planning, its evolution in India and world • To expose students to regional planning theories • To make students aware of the institutional mechanisms involved in regional planning and resource development			
Syllabus	Introduction to regional planning, Regional planning theories, Regional development policies, Regional planning in India, Resource development, case studies from India and abroad			
Expected Outcome	The students will be able to i. Understand the regional planning process, theories and its role in integrated planning of rural and urban areas ii. Appreciate how regional development policies at international and national levels affect regional planning iii. Understand the institutional mechanisms involved in regional planning and resource development			
Reference Books	1. Chaudhuri, J. R., & Chaudhuri, R. (2001). An Introduction to Development and Regional Planning: with Special Reference to India. Orient Blackswan 2. Glasson, J., & Marshall, T. (2007). Regional planning. Routledge 3. Ministry of Urban Affairs & Employment, Govt. of India, New Delhi – Urban and Regional Development Plans Formulation & Implementation Guidelines (2014) 4. Peter Hall, Mark Tewdwr-Jones (2010) Urban and Regional Planning, Routledge 5. Wang, X., & Hofe, R. (2008) Research methods in urban and regional planning. Springer Science & Business Media.			
COURSE PLAN				
Module	Contents	Hours	End Sem. Exam Marks	
I	Introduction to regional planning Aims, objectives, relevance and scope of regional planning; Concepts and classification of regions; Characteristics of a planning region; Delineation of regions; Regions in India; Regional delineation techniques, Case studies in regional delineation; Factor analysis, Cluster analysis; Flow analysis	7	15%	
II	Regional Interaction theories – Central place theory, Zipf’s Rank Size Rule; Regional growth – Sector theory, Export base theory; Input-output model; Least cost approach – Von Thunen, Weber	7	15%	
FIRST INTERNAL TEST				

III	Institutional mechanisms for regional planning in India 73 rd and 74 th Constitution Amendment Acts; District as a region – scope and limitations; Preparation of regional plan and implementation; Planning for Metropolitan regions , examples NCR, Mumbai, Chennai	7	15%
IV	Role of regional planning in balanced development Regional imbalances; Characteristics and reasons for backwardness; Theories of Regional Economic Divergence - Cumulative Causation Theory, Growth Pole Theory, Misra's growth foci approach	7	15%
SECOND INTERNAL TEST			
V	Relevance of regional planning in resource development Resource Regions in India - Western Ghats region, South-East Resource Region, Coastal Regions, and River Valley Regions; Industrial Regions, Coastal regions, etc.	7	20%
VI	Role of infrastructure in regional development Role of Spatial Information Technology (SDI) in the planning, provision, and monitoring infrastructure, Planning for infrastructure in a region; Planning for special areas and mega projects; Case studies of regional planning and resource development in other nations; UNCRD and regional development goals	7	20%
END SEMESTER EXAM			

COURSE CODE	COURSE NAME	L-T-S	CREDITS	YEAR OF INTRODUCTION
22MPS101	Planning Studio -II	0-0-12	6	2022
Course Objectives	To create awareness about design issues related to planning of small areas within the city- to understand the implication of socio- economic and demographic characteristics of the population on the physical plan			
Syllabus	Post occupancy evaluation of a planned development, Area planning Project			
Expected Outcome	The students will - Understand local problems through planning surveys - Develop capacity to analyse issues and evolve solutions at urban level - Develop ability to analyse various sectors related to urban development			
Reference Books	- Aidan Southall (1998) The City in Time and Space, Cambridge University Press - Anastassios Perdicoulis (2011) Building Competences for Spatial Planners: Methods and Techniques for Performing Tasks with Efficiency, Taylor & Francis - Ernest R. Alexander (1992), Approaches to Planning: Introducing Current Planning Theories, Concepts and Issues. Philadelphia: Gordon and Breach Science Publishers - James A. LaGro, Jr. (2013) Site Analysis: Informing Context- Sensitive and Sustainable Site Planning and Design, John Wiley & Sons - Jane Jacobs (1989) The Death and Life of Great American Cities, Knopf Doubleday Publishing Group - Peter Hall and Mark Tewdwr-Jones (2010) Urban & Regional Planning, Routledge; 5 edition (December 19, 2010) R. Ramachandran (1991), Urbanization and urban systems in India, Oxford University Press - Urban and Regional Development Plans Formulation & Implementation Guidelines (2014), Ministry of Urban Affairs & Employment, Govt. of India, New Delhi			

Module	Contents	End Sem. Exam Marks
I	Project I: Post occupancy evaluation of a planned development by means of user surveys	40%
II	Project II: Area planning Project which involves understanding local problems through planning surveys and analysis for different areas such as residential layouts, slum/squatter settlements, commercial areas, recreational areas, industrial areas, mixed use development, old city core etc. This will include use of physical standards, study of relevant legislation for planning, socio- economic surveys, literature case studies, application of widely used software packages for processing & presentation of data in the form of maps & reports	60%

Course Plan			
Module	Contents	Hours	Sem Exam Marks
	Literature review - research papers, book chapters, books, journals, documents, reports, etc. Preparation of a concise report is expected. Minor project – Understanding rural and urban character through area (layout/zone/part of settlement) study. The project serves to expose the student to data collection, field work, interaction with relevant stakeholders, teamwork, critical analysis, presentation of study – verbally and illustratively, preparation of report. Major project - Area planning exercise (green or brown field development) – part of a city with multiple uses, housing areas, urban rural interfaces, etc., involving interplay of complex conditions. Building on the previous exercise, the project involves a planning approach using norms and standards to make the student understand the basic principles of settlement planning as gleaned from theoretical study undertaken during semester. The process should provide opportunity for multidisciplinary approach to tackle the manifold factors to be considered in spatial planning to achieve balanced development.	180	100

ELECTIVES I

COURSE CODE	COURSE NAME	L-T-S	CREDITS	YEAR OF INTRODUCTION	
22MPPE201.1	Planning For Tourism	1-1-0	2	2022	
Course Objectives	- To make students aware of the methods and aspects of preparation of tourism plan and managing environmentally sensitive areas - To make students aware of the impact of tourism - To make students aware of the institutional mechanism involved in planning and implementation process of tourism plans				
Syllabus	Introduction to tourism, Tourism and environment, Tourism sector impact, Planning for tourism, Tourism infra-structure, Tourism policies				
Expected Outcome	Students will be able to i. Relate to the planning process, theory and practice in planning for tourism development ii. Relate to the institutional mechanisms involved in tourism planning iii. Develop capacity to identify multiple and often conflicting factors in tourism planning for an area and propose solutions				
Reference Books	- Glare A. Gunn, Tourism Planning-Basics, Concepts, Cases, Taylor & Francis, London, 1994 - Goeldner, J. R. & Brent Ritchie, Tourism: Principles, Practices, Philosophies, John Wiley & Sons, 2009 - J Mitchell, Caroline Ashley, Tourism and Poverty Reduction: Pathways to Prosperity, Routledge, 2009 - Manoj Sharma, Tourism Infrastructure Development: Sustainable Approach, Kanishka Publishers, New Delhi, 2010				
COURSE PLAN					
Module	Contents			Hours	End Sem. Exam Marks
I	Introduction to tourism Definition, concepts, sectors, and perspectives. Purpose of tourism planning- planning view, scale and development. Types of Tourism: Cultural Tourism, Eco- Tourism, Heritage Tourism, Adventure Tourism, Religious Tourism, Leisure Destination Tourism; Characteristics of Each and Planning Implications			4	10%
II	Tourism and Environment Environmental issues and tourism. Carrying capacity and Sustainable development.			5	15%

	Ecotourism. Landscape, environment and tourism, natural and man-made heritage and tourism development.		
III	Tourism sector impacts Sociology of Tourism – Leisure, recreation and society. Tourist and Local community. Community, Culture, religion and visiting habits. Gender issues and tourism. Tourism and social problems. Economics of Tourism – Tourism as an industry, regional and urban economic development. Informal sector and tourism. Business and Marketing aspects of tourism.	5	15
IV	Planning for tourism Concepts related to tourism planning- urban and regional planning concepts. Destination Planning concepts- places, issues, and guides. 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; community planning and tourism; capacity building and carrying capacity planning for tourism; Tourist Site Planning – processes and sustainability. Nature, scope and issues related to preparation of Tourism Plan. Sustainable tourism planning. Tourism Planning Methods and Analysis. Transport and other Infrastructure planning and tourism development. Urban and Rural based tourism. Tourism marketing - concept, techniques and strategies.	6	20
V	Tourism infra-structure Tourism Infrastructure- Definition and Classification; Tourism as a Burden on Local Infrastructure Accommodation, tourism services – projections Best practices in tourism	5	20
VI	Tourism policies Tourism as a system- market, function and external factors. Government and tourism policy and priorities. Role of local community and Tourism promotion. Private sector and tourism development. Information technology and tourism management. Tourism as local, regional, national and global perspectives.	5	20

COURSE CODE	COURSE NAME	L-T-S-D	CREDITS	YEAR OF INTRODUCTION
MPPE201.2	Urban Sociology	1-1-0	2	2016
Course Objectives	To introduce urban sociology and urban studies			
Syllabus	Basic concepts of Sociology, Urbanization as a way of life. Globalization, Theories of Urbanism, Historic Development of Urban Form, Social geography, Social area Analysis, Community, Inequality, Crime, Urban Anomie Theory, Social Psychology.			
Expected Outcome	Students would be able to appreciate the role of society in the making of cities. They would understand the city as a collection of social processes rather than just a collection of buildings and infrastructure.			
Reference Books	- Alex Thio, Sociology A Brief Introduction, Pearson, 2008 B. Bhattacharya (2006) Urban Development In India Since PreHistoric Times, Concept Publishing New Delhi - Bitton, Bonet, Jones, Skinner, Stanworth and Webster (1996)Introductory Sociology Palgrave - Jayapalan, N, Urban Sociology, Atlantic Publishers, 2002. - Joel M. Charon (Ed.) (1999) The Meaning Of Sociology A ReaderPrentice Hall, New Jersey - John J. Macionis, Vincent N. Parillo, (1998) Cities and Urban LifePrentice Hall, New Jersey - Josef Gugler (Ed.) (1997), Cities In The Developing World; Issues,Theory And Policy, Oxford University Press - Kaplan Wheeler, Holloway (2004) Urban Geography, Wiley M. Haralambos, R. M. Heald (1980) Sociology Themes AndPerspectives, Oxford University Press - Malcolm Miles, Tim Hall and Iain Borden (2000), The CityCultures Reader, Routledge - Narendra K. Singhi (Ed.) (1996) Theory And Ideology In Indian Sociology, Rewat Publication , Jaipur and New Delhi - William G. Flanagan, Contemporary Urban Sociology, Cambridge University Press, 1993			
COURSE PLAN				
Module	Contents	Hours	End Sem. Exam Marks	
I	Introduction, basic concepts: Culture, Norms, Values Statues, Role, Social Stratification, Race, Ethnicity, Gender, Caste, Class, Religion, Deviance, Social Control, Social Change Urbanization, Definitions, urban Structure, Urban ways of life a global analysis of urbanization	5	10%	

II	Types of Cities, Theories of Urbanization Historical development of urban form in relation to society, politics and culture; Preindustrial city, Industrial cities and suburbs, Post Industrial Era, Indian cities, Globalization	5	15%
FIRST INTERNAL TEST			
III	Urbanism: Urban culture and urban society, Models of social geography, European Perspectives, Chicago School of Sociology	5	15%
IV	Social Area Analysis, Factorial Ecology, Gentrification, Suburbanization Race, Class, Religion and Caste and Spatial Segregation, Inequality and Polarization	5	20%
SECOND INTERNAL TEST			
V	Community in Urban settings: Identity, Difference, Inequality and polarization Crime, Fear of crime, Apartheid Urban Anomie Theory, Urban eco criticism, EcoFeminism	5	20%
VI	Social Psychology: Image of the city, mental maps, the production of space geography of gender in the city	5	20%
END SEMESTER EXAM			

COURSE CODE	COURSE NAME	L-T-S	CREDITS	YEAR OF INTRODUCTION
22MPPE201.3	Real Estate Development	1-1-0	2	2022
Course Objectives	- To introduce the basic concepts related to real estate legislation, planning and management. - To understand land as a resource - To provide an insight into the financial aspects of Real estate. - To provide adequate inputs to make the development a smooth activity and be aware of the tactical aspects of marketing.			
Syllabus	Introduction to Real Estate Development, Events and Pre project studies Transfer of Property, Laws relating to land and Development Controls, Real Estate Project Formulation, Real estate finance			
Expected Outcome	The students will be able to i. Interpret the basic concepts of real estate development ii. Appreciate land as a resource iii. Understand the institutional mechanisms involved in real estate development			
Reference Books	- David Falk; “The fundamentals of Real estate finance”, (2005).USA - Fillmore W Galaty, “Modern Real estate practice” (2002); Dearborn Trade Publishing, New York, U.S.A. - Gerald R Cortesi, “Mastering Real estate principles” (2001); Dearborn Trade Publishing, New York, U.S.A. - Ratcliff, John, et.al. “Urban Planning and Real estate development”, Routledge - Weimer, Arthur and Hoyt. “Principles of real estate” The Ronald press Co.			
COURSE PLAN				
Module	Contents		Hours	End Sem Exam Marks
I	Introduction to Real Estate Development Definition, Fundamental concepts and techniques involved in real estate development process		4	10%
II	Events and Pre project studies Modeling Sequential events in real estate development process, site evaluation, land procurement, development team assembly, market study		5	15%
FIRST INTERNAL TEST				

III	Transfer of Property Possessions, rules related to transfer of property, co-ownership of land, rights, lease, mortgage	5	15%
IV	Laws relating to land and Development Controls Controls on landuse - landuse regulations, ordinances, principles and procedure on Land acquisition and land ceiling act. Town and country planning Act, municipalities and local bodies' act, Acts relating to environmental quality and infra- structure development. Real estate regulations, Land informationsystems	6	20%
SECOND INTERNAL TEST			
V	Real Estate Project Formulation Real estate project formulation and development process, asset management, property insurance, taxation and fiscal incentives, public-private partnerships and JV'S, rating, risk assessment. Identifying technical inputs required, clearances from various authorities, timing of the project and scheduling. Development Planning and approval process	5	20%
VI	Real estate finance Fundamental concepts, methods and tools useful for making investment and finance decisions. Role of NRIs and PIOs in the investment market.	5	20%
END SEMESTER EXAM			

COURSE CODE	COURSE NAME	L-T-S	CREDITS	YEAR OF INTRODUCTION
MPPE201.4	Inclusive Urban Planning	1-1-0	2	2022
Course Objectives	To study the various Forms, Arenas and Uses of Inclusion in the Processes of Urban and Regional Planning			
Syllabus	Understanding Inclusive Planning, Stakeholders Profile and Needs, Access to Shelter, Services and Livelihoods, Participatory Planning Process and Policies, Programmes and Legislation, Planning interventions			
Expected Outcome	The Students will be able to - Relate to the planning process, theory and practice in planning for various stake holders - Develop capacity to identify and plan for different stake holders in inclusive planning for an area			
Reference Books	- Datta, A, (2012), The Illegal City: Space, Law and Gender in a Delhi Squatter Settlement, Routledge - Eijk, G.V, (2010), Unequal Networks: Spatial Segregation, Relationships and Inequality in the City, IOS Press, Amsterdam - Harriss, J (2007), Antinomies of Empowerment: Observations on Civil Society, Politics and Urban Governance in India, Economic and Political Weekly, Vol.42, No.26, pp.2716-2724 - Roy, A. and Ong, A. (Eds.) (2011), Worlding Cities: Asian Experiments and the Art of Being Global, Wiley Blackwell, London			

COURSE PLAN				
Module	Contents	Hours	End. Sem. Exam Marks	
I	Understanding Inclusive Planning Definitions and components	5	10	
II	Stakeholders Profile and Needs, Access to Shelter, Services and Livelihoods Urban Poor, Informal Sector, Gender, Children, Elderly, Disabled, Displaced people, etc.; Slums - dimensions, causative factors, determinants, location characteristics of settlements; Informal sector - growth, characteristics, functions, economic contributions, linkages with formal sector, impact on Urban Development	5	10	
FIRST INTERNAL TEST				

III	Participatory Planning Process and Policies, Programmes and Legislation Methods, role of stakeholders (including civil society organizations), etc.; Related Acts, Five year plans, policies and programmes at various levels.	4	10
IV	Planning interventions In India Inclusive zoning, development and building regulations, Slum Improvement.	6	10
SECOND INTERNAL TEST			
V	Innovative approaches and concepts Pro poor planning in cities, Concepts for urban Housing and Social exclusion	6	10
VI	Inclusionary Planning Models Practiced in the World's Cities Experiences from Africa, Asia and Europe towards improving city development	4	10
END SEMESTER EXAM			

COURSE CODE	COURSE NAME	L-T-P	CREDITS	YEAR OF INTRODUCTION
22MPPE101.5	Vernacular Housing	1-1-0	2	2022
Course Objectives	- To introduce to the students the idea to Vernacular Housing as a unique technology and regional cultural trait - To introduce the students to the varied vernacular housing traditions in the Indian context and also the technology and materials associated with its building practice. - To give an overview of the different methods to observe, analyse and document vernacular architecture; and to understand the importance of preserving vernacular traditions in modern context.			
Syllabus	Vernacular architecture as process - Cultural traits and environmental contexts in Vernacular Housing - Vernacular Housing traditions in Indian context - Colonial influence in Indian vernacular architecture - Methods of observation, recording, documenting and representing vernacular architecture - Study and documentation of vernacular architecture - Critical review of the relevance and application of vernacular ideas and techniques in contemporary times.			
Expected Outcome	The students will be able to - Develop an understanding of the Vernacular Housing traditions and its regional cultural implications. - Develops skill to observe, analyse and document Vernacular Housing and to understand its importance in current housing context.			
Reference Books	- Carter, T., & Cromley, E. C. Invitation to Vernacular Architecture: A Guide to the Study of Ordinary Buildings and Landscapes. Knoxville: The University of Tennessee Press. 2005 - Cooper, I. Traditional buildings of India. Thames and Hudson Ltd, London, 1998 - G.H.R. Tillotsum – The tradition of Indian Architecture Continuity, Controversy – Change since 1850, Oxford University Press, Delhi, 1989. - Kulbushanshan Jain and Minakshi Jain – Mud Architecture of the Indian Desert, Aadi Centre, Ahmedabad 1992. Oliver, P. Encyclopaedia of Vernacular Architecture of the World, Cambridge University Press, 1997.			

COURSE PLAN

Module	Contents	Hours	End Sem. Exam Marks
I	Vernacular architecture as a process – understanding forms, spatial planning, cultural aspects, symbolism, materials of construction and techniques in terms of Cultural traits and environmental contexts – Factors that shape the architectural character and render the regional variations of vernacular architecture – geographic, climatic, social, economic, political, and religious aspects, local materials and skills available in the region.	6	15%

II	Different approaches and concepts to the study of vernacular architecture: an over view – Aesthetic, Architectural and anthropological studies	4	15%
FIRST INTERNAL EXAM			
III	Vernacular Housing traditions in Indian context – Case studies on North Indian vernacular housing typologies – Deserts of Kutch and Rajasthan; Havelis of Rajasthan, Rural and urban Gujarat; wooden mansions (havelis – Vernacular architectural typologies from the South - Agraharam, Chettinad houses, etc. – Vernacular housing in Kerala, case studies of houses the tribal and traditional typologies.	6	15%
IV	Colonial influence in vernacular architecture – Evolution of the bungalow from the traditional bangla – Introduction of new planning principles and materials and methods of construction – Case studies of historic housing typologies in Pondicherry and Cochin.	4	15%
SECOND INTERNAL EXAM			
V	Methods of observation, recording, documenting and representing vernacular architecture with examples – Survey and study of vernacular architecture – Study and documentation of vernacular architecture of selected housing typologies. Documentation, collating the recorded information and drawing in specified formats and scales are part of this module.	6	20%
VI	Lessons from Vernacular traditions that help in meeting the challenges of future housing – Critical review of the relevance and application of vernacular ideas and techniques in contemporary times.	4	20%
END SEMESTER EXAM			

THIRD SEMESTER

COURSE CODE	COURSE NAME	L-T-S-D	CREDITS	YEAR OF INTRODUCTION
22MPC301	SUSTAINABLE URBAN PLANNING	2-1-0-0	3	2022
Course Objectives	- To understand urbanisation pattern and related resource management - To sensitise the significance of sustainability in the field of urban planning and understand its global significance - To expose various best practices practiced in the field of sustainable urban planning			
Syllabus	Overview of Sustainable Development Concept, Environment and Urbanisation, Energy and Urbanisation, Climate change and Urbanisation, Carrying capacity, EIA and SEA, Emerging Concepts			
Expected Outcome	The students will be able to 1. Appreciate the significance of sustainability in urbanisation and its global impact 2. Develop capacity for resource optimisation. 3. Approach the environment and natural ecosystems as potentials rather than as constraints for urban development and thus integrate it to the planning process. 4. Appreciate and apply the new technologies related to sustainable urban development			
Reference Books	1. AITP Reader on Ecology & Resource Development, AITP 2. A K Maitra, AITP Reading Material on Environmental Planning and Design, , SPA Delhi 3. Andy Gouldson et al., The Economics of Low Carbon Cities: A Mini-Stern Review for the Leeds City Region, The Centre for Low Carbon Futures Partnership, University of Hull, University Of Leeds 4. Best Practices Environment, The Economist, Intelligence University Press 5. Brandon P.S, Evaluating Sustainable Development in the Built Environment,, WILEY-BLACKWELL Pub., UK 6. Cities and Climate Change, OECD Publishing OECD (2010) 7. CPCB Guidelines for Bio-Technologies for Treatment of Wastes and Cleaner Technologies - Issue and Options 8. Deakin, Mark; Al Waer, Husam (Eds.) (2012), From Intelligent to Smart Cities, Routledge, Taylor & Francis, USA and Canada. 9. Dr. D.A. Nagdeve, Population Growth and Environmental Degradation in India, 10. Global Green Standards: ISO 14000 and Sustainable Development, International Institute for Sustainable Development 11. Harriet Bulkeley (2013), Cities and Climate Change, (Routledge Critical Introductions to Urbanism and the City), Routledge, New York. 12. Kulkarni V. and Ramachandra T. V, Environmental Management,, TERI Press, New Delhi 13. Lehmann S (2015), Low Carbon Cities- Transforming Urban Systems, Routledge Publications, New York.			

	14. Mary K. Theodore and Louis Theodore Introduction to Environmental Management, 15. Ramachandra T.V. and Saira Varghese K., Exploring Possibilities of Achieving Sustainability in Solid Waste Management, , Indian Journal of Environmental Health, 45(4):255-264, 2003 16. Scott Campbell, Green Cities, Growing Cities, Just Cities?, Urban Planning and the Contradictions of Sustainable Development, Journal of The American Planning Association 17. Stephen M Wheeler & Timothy Beatley (Ed.), The Sustainable Urban Development Reader, Second Edition, Routledge 18. Tai-Chee Wong and Belinda Yuen , Eco-City Planning: Policies, Practice and Design, , Springer
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COURSE PLAN		
Module	Contents	Internal/ Sem Exam Marks
I	Overview of Sustainable Development Concept Definitions, concepts and parameters in sustainable development with particular reference to Brundtland Commission and Agenda 21; Eco-City Approach; United Nations Framework Convention on Climate Change; Conference of Parties: Kyoto Protocol, Intergovernmental Panel on Climate Change, Indian Network of Climate Change Assessment etc.	10%
II	Environment and Urbanisation Environment and Development interface; Resource management, exploitation and conservation: Land, water, air and green spaces including forest cover; Impact of urbanisation on environment; Management of sensitive zones in urban areas – hills, coasts, water bodies and water fronts, wetlands etc. (including participatory approaches); Pollution and pollution control.	15%
FIRST INTERNAL TEST		
III	Energy and Urbanisation Sources of energy, Energy supply and demand; Energy consumption in cities, Determinants of energy demand in cities; Energy planning and management; Energy efficient development.	15%
IV	Climate change and Urbanisation Basics of Climate Change: Greenhouse gases, Anthropogenic causes, Carbon cycle, Global warming; Urban Heat Islands; Impacts of Climate Change: Climate as Forcing Variable, Location attributes, sensitivity and vulnerability of different Sectors, extreme events and their effects. Mitigation for climate change in urban areas (Case studies).	25%
SECOND INTERNAL TEST		

V	Carrying capacity, EIA and SEA Carrying capacity based planning: Concept, Parameters and Indicator measures, Models and case studies in Urban development; Role of EIA in the planning and decision making process; Methods of EIA; advantages and limitations; Environmental Impact and Strategic Environmental Assessment for Urban Areas (through Case Studies); Ecological Footprint Analysis of Cities; Sustainable Lifestyle Assessment	20%
VI	Emerging Concepts Green GDP; Environmental accounting; Green Budgeting; Carbon Trading; Carbon sequencing; Compact City Concept - Implications of Urban Form, Density, Land Use Pattern, Transportation System, Waste management and Energy Conservation; New urbanism principles, Smart city concept; Policy, programmes, schemes and strategies adopted by Government (Central & State) to achieve sustainability in urban development.	15%
END SEMESTER EXAM		

COURSE CODE	COURSE NAME	L-T-S	CREDITS	YEAR OF INTRODUCTION
22MPC302	DEVELOPMENT MANAGEMENT AND FINANCE	1-1-0	2	2022
Course Objectives	To familiarise • The administration and financing of urban/rural housing and other infrastructure development and management strategies adopted for their implementation and monitoring and to familiarise the concept of Public finance • The aspects of development administration, good governance and their influence in development planning • The powers and responsibilities of ULBs. Revenue and expenditure management, Innovative means of financial resource mobilisation for local bodies, best practices			
Syllabus	Basic concepts of Development management, Development administration and Development financing. Strategies for managing, financing, implementing and administering urban and rural development. Public / municipal finance, tools for evaluation, innovative methods of resource mobilisation,			
Expected Outcome	The students will i. acquire knowledge about the process of management of urban planning and infrastructure projects ii. be able to identify the means of financing, monitoring and implementing them. iii. acquire the knowledge to identify the strategies and methods of resource mobilisation that can be adopted for various development projects.			
Reference Books	1. Ahluwalia, Isher Judge, et.al., Urbanisation in India – Challenges, Opportunities and the Way Forward. 2. Aresh Kumar Maitra, „Urban Environment in Crisis“, New Age International (P) Limited, Publishers, New Delhi. 3. Avijit Gupta and Mukul G. Asher, „Environment and the Developing World“, John Wiley & Sons, New York, USA. 4. Bamberger M & Hewitt E, Monitoring and Evaluation of Urban development Programs. 5. Jain D K, Project Planning and Appraisal in Planned Economy in India. 6. Maljotra D D Management of Urban Development. 7. Mohanty , P.K., Cities and Public Policy – An Urban Agenda for India 8. Mundanthura Balakrishnan – Environmental Problems and Prospects in India – Oxford & IBH. 9. Oberman J, Planning and Managing the Economy of the City. 10. Panandiker, V A P, Development Administration in India. 11. Prof. N S Saini, Reading Material on Development Management. 12. Rao P.K (2001), „Sustainable Development“, Blackwell Publishers, Massachusetts, USA. 13. Rao P.S.N. et.al., Municipal Finance in India – Role of 12th Finance Commission			

	14. Sharma K S R N, Financing Urban Development in India. 15. TCPO: Perspectives on Management of Urban Development – Financing Urban Services.
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COURSE PLAN		
Module	Contents	Internal/ Sem Exam Marks
I	Development management concepts, definition, characteristics, objectives, scope and its relevance to the planning sector Basic elements of management planning, national goals and management strategies for Urban planning projects. Development goals and processes, effect of political – economic system on development management. Key issues in development management of urban/rural settlements, task force, committees and recommendations on development management.	10%
II	Development administration: Municipal administration system, rural administration system, urban development authorities, urban management agencies etc. Development administration in India, national, state and local level organisations, role of housing boards, development authorities, improvement trusts and boards, cooperatives, agencies, private sector, NGO"s etc in housing / development management.	15%
FIRST INTERNAL TEST		
III	Development strategies: land management techniques for urban planning, housing and infrastructure development. Organizational techniques for development management. Management, monitoring and evaluation techniques for development projects, participatory management processes, managing joint ventures, Practice of PPP in Urban Infrastructure projects, post occupancy management of housing and other development projects. Alternative development management strategies: persuasive strategies, non-persuasive strategies, measures of inducements and promotion of development etc.	15%
IV	Public finance: Government structure under which public financing works - National financial Commission in India. Role of State finance Commissions. Public finance evaluation tools – Fiscal Impact Analysis. Cost-benefit Analysis. Traditional and innovative methods of public finance including property tax, User fee, Impact fee, Tax increment financing, Use of special districts. Estimating infrastructure needs.	20%

SECOND INTERNAL TEST		
V	Development financing: resource mobilisation and intergovernmental fiscal relations, state grants and shared taxes of local bodies, municipal finance, property tax, institutional approaches, capital investments and other new initiatives for financing development. Using land as a resource to finance urban development projects. Development financing tools – development improvement financing, value capture financing etc. Innovative methods and best practices in India and abroad. Role of good governance in development management, Best practices.	25%
VI	Development finance and local bodies: Powers and functional responsibilities of ULBs, Constitutional amendments on local functions and finances. Budgeting process, Link between budgeting and planning. Expenditure and revenue. Existing state of Municipal finance. Municipal financial resource mobilisation – status, issues and concerns. New and innovative fiscal tools, best practices in financial resource mobilisation at local level.	15%
END SEMESTER EXAM		

COURSE CODE	COURSE NAME	L-T-S-D	CREDITS	YEAR OF INTRODUCTION
22MPS301	Planning Studio III	0-0-12	6	2022
Course Objectives	To train in the preparation of Development Plan conceived within the framework of the approved perspective plan of a medium/large town			
Syllabus	Prepare Plan for a medium/large urban settlement such as Development Plan / Master Plan / Structure Plan			
Expected Outcome	The students will be able to analyse components such as physical characteristics, natural resources, demographic characteristics, economic base, employment, shelter, transportation, social and infrastructure facilities, finance, institutional set-up, regional interdependencies etc,			
Reference Books	1. Aidan Southall (1998) The City in Time and Space Cambridge University Press 2. Anastassios Perdicoulis (2011) Building Competences for Spatial Planners: Methods and Techniques for Performing Tasks with Efficiency, Taylor & Francis 3. Ernest R. Alexander (1992), Approaches to Planning: Introducing Current Planning Theories, Concepts and Issues. Philadelphia: Gordon and Breach Science Publishers 4. James A. LaGro, Jr. (2013) Site Analysis: Informing Context-Sensitive and Sustainable Site Planning and Design, John Wiley & Sons 5. Jane Jacobs (1989) The Death and Life of Great American Cities Knopf Doubleday Publishing Group 6. Peter Hall and Mark Tewdwr-Jones (2010) Urban & Regional Planning 7. R. Ramachandran (1991), Urbanization and urban systems in India, Oxford University Press 8. Urban and Regional Development Plans Formulation & Implementation Guidelines (2014) Ministry of Urban Affairs & Employment, Govt. of India, New Delhi			

COURSE PLAN		
Module	Contents	Internal/ Sem Exam Marks
I	Major Project I: Development Plan for a medium/large urban settlement Prepare Plan for a medium/large 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 from the primary and secondary sources and analyzed. A report / maps / charts are the media through which the study is expected to be presented.	

II	Minor Project II: Appraisal of City/Town The main purpose is to make the students appreciate the locational attributes of land parcels for future development in a city. Due to the size of the area, this exercise is done in groups of students being assigned to a particular area. The following planning issues at area level should be identified: 1. Review of the Master Plan / Zonal / Area plan in relation to the selected areas. 2. Appreciation / Analysis of ward level data. 3. Perception of areas in terms of legal / illegal / authorized / unauthorized, Slums, Urban Aesthetics. 4. Social Categorizations of people - Type of population living, people's perception about area and its planning problems. 5. General land tenure of the area and land value for different uses. 6. Major types of transport, type of roads, hierarchy of roads, type of transport modes used. 7. Amenities: Location of Social and Physical infrastructure and their problems as perceived by local population. Look for specific infrastructure such as Water supply, drainage (water logging areas), waste collection and disposal system, sanitation, etc. 8. Environmental Issues: Open Spaces – Availability and extent of open space to built-up area, garbage disposal, encroachment (through photographic evidences and sketches). Locating the study area in the zone, city and regional context with respect to all the above aspects.	200
END SEMESTER JURY EXAM (100 Marks)		

COURSE CODE	COURSE NAME	L-T-S-D	CREDITS	YEAR OF INTRODUCTION
22MPS302	DISSERTATION	0-3-0-0	3	2022
Course Objectives	- To undertake research into any aspect of Planning - To widen and enrich the literature pertaining to the topic of research - To present the research findings before experts (academicians and/or professionals) in the chosen field. - To prepare a technical report on the research undertaken			
Syllabus	It involves research into any Planning related issues or prospects leading to planning or design proposals/ guidelines/ policies, etc. It is a research study which must be supported by relevant literature at all stages of the study. Primary study may be conducted as required.			
Expected Outcome	The students will be able to - Identify topics where there is a gap in research in relevant field of study - Conduct literature search to further understanding of the topic of study, develop suitable research designs and applying it in the research. - Disseminate the findings of the research in professionally acceptable standards			

COURSE PLAN		
Module	Contents	Internal/ Sem Exam Marks
I	The submission for first internal review should have the following: Synopsis which includes a working title, background to the study, need for the study aim and objectives, methodology, scope and limitations, preliminary literature studies, and brief introduction about the study area. The study is to be presented as sheets with all necessary data including maps, statistics, photos etc. An A4 size draft report should be submitted with minimum 20 pages.	20
FIRST INTERNAL REVIEW (20 marks)		
II	The submission for second internal review should have the following: All previous sheets/slides with improvement, all secondary data about the study area including maps, statistics & photographs, results from primary studies & its analysis. The study is to be presented as sheets with all necessary maps, statistics, photos etc .An A4 size draft report should be submitted with minimum 40 pages.	30
SECOND INTERNAL REVIEW (30 marks)		
	The submission for third internal review should have the following: All previous sheets/slides with improvement, Data Analysis /Findings/Results/,	

III	Inferences, Strategies/guidelines/proposals, Conclusion. The study is to be presented as sheets with all necessary maps, statistics, photos etc .An A4 size draft report should be submitted with minimum 60 pages.	50
THIRD INTERNAL REVIEW (50 marks)		
IV	The final end semester review will be conducted by an Evaluation committee. The students should submit 3 copies of the final dissertation report before the final review. The study is to be presented as A1 sheets (max. 40 no's) with all necessary maps, statistics, photos etc. The students may also present models/ short videos/ power point presentations about the project.	100
END SEMESTER REVIEW (100 marks)		

COURSE CODE	COURSE NAME	L-T-S-D	CREDITS	YEAR OF INTRODUCTION
22MPS303	INTERNSHIP		2	2022
Course Objectives	At the end of the second semester the students are required to undergo an internship for four weeks in an organization (public, private or NGO) that specializes in the concerned stream. The objective is to acquaint the student with real time practices in Urban Design/ Planning /Housing related projects under competent professional guidance.			
Syllabus	The students are encouraged to get hands-on training in Urban Design/ Planning/ Housing techniques employed by Urban Designers/ planning boards/ Housing boards and practicing planners. Students must be engaged in relevant and productive work in the stream of specialization. The work must ideally be part of a live/active-UD/ planning/ housing project, and may involve data collection, data analysis and visualization, field surveys and map preparation exercises, design stage, participation in stakeholder meetings and Focus Group Discussions, as well as report preparation. The students should ensure that the organization in which training is undertaken is capable of providing opportunity to undertake work of such nature. Further, the student must be able to clearly identify his/her contribution towards the planning exercise and be able to present the same in the form of a report/ presentation as deemed fit by the internal committee. Work of clerical nature shall not qualify as fulfilling internship requirements. A training certificate from the concerned organization, listing the nature of work undertaken by the student, is to be produced during the evaluation by internal committee. At the end of the training the students will submit a report, which will be evaluated by an internal committee (for 100 marks).			
Expected Outcome	Students will be able to 1. Gain an understanding of the institutional mechanism/ organizational setup involved in housing/planning/urban design projects. 2. Gain a practical understanding of the procedure involved in the same. 3. Apply the skills acquired over the previous semesters.			

ELECTIVES II

COURSE CODE	COURSE NAME	L-T-S	CREDITS	YEAR OF INTRODUCTION
22MPPE301.1	Village Planning and Rural Development	2-0-0	2	2022
Course Objectives	- To understand rural society within the context of rural development and change In the post-independence period - To enable planning for overall development of the social institutions, human behaviour and economy of the rural population			
Syllabus	Introduction to rural development and planning,, national planning and rural development, rural settlements, planning for rural development, land reforms, poverty and anti-poverty measures			
Expected Outcome	The Students will be able to i. Understand the relevance of village planning and rural development ii. Understand the context of village planning and rural development iii. Understand the importance of land reforms and different anti-poverty measures.			
Reference Books	References: 1. B.S.Khanna, „Rural Development in South Asia“, Allied Publishers, New Delhi, 1991. 2. H.A.Hye. „Integrated Approach to Rural Development“, Sterling Publishers, New Delhi, 1986. 3. Keith Hoggard and Henry Builer, „Rural Development – A Geographical Perspective“. Croome Helm, London, 1987. 4. Misra. R.P.(ed.), „Rural Development, National Policies and Experiences“, UNCRD, Nagoya,Japan, 1981.			

COURSE PLAN			
Module	Contents	Hours	Internal/ Sem Exam Marks
I	Introduction Relevance of rural area for urban development, mutual dependence between urban and rural areas, between industry and agriculture. Characteristics of symbiotic development and the pattern of urban development in India in this context. Levels of living of rural people-trends of development differentials in level of development between various regions within India and different socio economic groups.	6	20%

II	National Planning and rural development National planning and rural development. Concepts of planning for rural settlement. Regional development and urban rural partnership, related inputs and infrastructure development. Agricultural development, allied activities and patterns of rural linkages, communication and marketing facilities, community development, institutions and delivery of social services.	6	20%
FIRST INTERNAL TEST			
III	Rural settlements Rural settlements, typology, structure, spatial significance in metro-regions and interior areas. Planning principles of villages and community norms. Rural reconstruction. Basic needs and rural sanitation, water supply, hygiene and drainage. Technology transfer and options	3	15%
IV	Planning for Rural development Area, district and block level development planning and implementation, public participation in rural development process, role of voluntary Organisation. Rural energy issues, renewable and alternative sources of energy. Ecological and environmental considerations in rural development and village planning	6	15%
SECOND INTERNAL TEST			
V	Land Reforms in India Land Reforms in India: Need and Scope of Reforms, Tenancy Reforms., Rural Credit. Community Development and Panchayati Raj, Area Development and Target Group Based Development.	3	10%
VI	Poverty and anti-poverty measures Green Revolution, Rural Poverty and Poverty Studies., Anti Poverty Programmes and Their Performances. Non-government Experimentation of Rural Development, Milk Co-operative in India	4	20%
END SEMESTER EXAM			

COURSE CODE	COURSE NAME	L-T-S-D	CREDITS	YEAR OF INTRODUCTION
22MPPE301.2	Environmental Planning and Development	2-0-0-0	2	2022
Course Objectives	- To introduce the discipline of planning and planning history - To expose planning theory and practice - To make aware of the institutional mechanism involved in planning and implementation process			
Syllabus	Introduction to environmental planning, Environmental zones and its development, Environmental resource management, Role of organisations in environmental protection, Environmental Impact Assessment, Emerging new environmental concepts			
Expected Outcome	The Students will be able to - Understand the various factors of development and its effect on the environment. - The students are exposed to different facets of environmental planning, development control, impact assessment methods, eco cities development, environmental improvement etc - The students are enabled to incorporate environmental consideration in spatial planning backed by theoretical understanding.			
Reference Books	- Asesh Kumar Maitra, „Urban Environment in Crisis“, New Age International (P) Limited, Publishers, New Delhi - Avijit Gupta and Mukul G. Asher, „Environment and the Developing World“, John Wiley & Sons, New York, USA - Larry W. Canter, „Environmental Impact Assessment“, McGrawHill, Inc., New York, 1996 - Randolph J „Environmmetal Landuse Planning and Management“ Covelo CA, Island Press, 2012 - Rao P.K (2001), „Sustainable Development“, Blackwell Publishers, Massachusetts, USA.			

COURSE PLAN		
Module	Contents	Internal/ Sem Exam Marks
I	Introduction to Environmental planning Concept of environmental planning, Settlement structure and form in response to environmental challenges, Urban ecosystem	10%
II	Environmental zones and their development Environmental zones, (Hill, Coastal, Arid) Characteristics, resources, settlement pattern, problems and potentials, regulating mechanisms for development	15%

FIRST INTERNAL TEST		
III	Environmental resource management Management of land, water bodies and water channels, forests and wildlife, minerals, Management of urban areas, Management of sensitive areas, Management of sensitive areas – hills, coast, arid wetlands etc; Management of watersheds	25%
IV	Role of organisations in environmental protection Role of government and non government organisations in environmental protection, Environmental management of Indian metropolis	15%
SECOND INTERNAL TEST		
V	Environmental Impact Assessment Role of EIA in the planning and decision making process, Methods of EIA; advantages and limitations, Assessment of impacts on resources – air, water, flora and fauna, Assessment of impacts on land use, Assessment of social and health impacts, Public participation in EIA	20%
VI	Emerging environmental concepts Ecological footprints, Ecotourism, Environmental disaster, Environmental information systems and models, Environmental security, urban ecology, energy planning in urban settlements etc	15%
END SEMESTER EXAM		

COURSE CODE	COURSE NAME	L-T-S-D	CREDITS	YEAR OF INTRODUCTION
22MPPE301.3	Geo-informatics	2-0-0	2	2022
Course Objectives	- To introduce the discipline of geo-informatics - To expose theory and practice of geo-informatics - To make aware of the steps involved in spatial analysis and implementation process			
Syllabus	Introduction to geo-informatics, Overview of photogrammetry, GPS, GIS and RS, Urban planning and mapping, Basics of spatial analysis			
Expected Outcome	The Students will be able to - Understand about geo-informatics and its applications in planning of cities - Appreciate of the role of historical developments in the field of geo-informatics - Develop capacity to understand how studies can be done using GIS			
Reference Books	- G.S Srivastava – „An Introduction to Geo-informatics“, McGraw Hill Education (India) Pvt. Ltd, 2014. - Goodchild M.F. and Kemp K – „Developing a curriculum in GIS: The NCGIA Core Curriculum Project“, University of California, Santa, Barbara 1990. - Heywood I, et al, An Introduction to Geographical Information System, Longman, New Delhi, 1998. - Ian Haywood Cornelius and Steve Carver – An introduction to GIS, Longman, New York, 2000. - Lo CP & Young AKW, Concepts & Techniques of Geographical Information System, Prentice Hall of India, New Delhi – 2003. - Misra HC – A Handbook on GIS, GIS India, Hyderabad, 1995. - Smith T.R. and Piquet, GIS, London Press, London, 1985. - Taylor DRF – GIS: The Micro computer and Modern Cartography, Pergamon Press, Oxford, 1991.			

COURSE PLAN			
Module	Contents	Hours	Internal / Sem Exam Marks
I	Introduction to Geo-informatics Scope and Importance of Geo-informatics; Geo-informatics technologies and the technologies used in Geographical Studies; Photogrammetry, Remote sensing, Global Positioning System, Geographic Information System; Applications in urban planning	5	15%

II	Geo-informatics- Photogrammetry and GPS Photogrammetry- History, definition, classification and basic principles Global Positioning System- Differential GPS, Concepts of GPS- History, types, navigation systems and applications	4	15%
FIRST INTERNAL TEST			
III	Approaches to the study of G.I.S. History of GIS; G.I.S. Terminology; Coordinate systems; G.I.S. as a Special Field of Academic study- G.I.S. as a Spatial Data Institution and its Social Implications; Applications in transportation planning and environmental management	3	15%
IV	Urban Planning and Mapping Importance and types of plan, urban and regional planning, LU/LC mapping, GIS data modeling for urban infrastructure, urban site selection for urban development; Urban mapping physical structure and composition of urban areas, urbanization process, growth trend, problems of urbanization, urban sprawl and associated problems	6	20%
SECOND INTERNAL TEST			
V	Applications of RS and GIS in Urban Planning RS- Concepts and principles, LU/LC analysis- Change detection in LU/LC, Site suitability analysis for residential, commercial, recreational, religious, waste material disposal sites for urban and regional planning. Creation of databases of cities for municipal corporations, Urban population identification, Urban slums- Trend, pattern and management	6	20%
VI	Basics of Spatial Analysis Significance of spatial analysis; Overview tools for analysis Spatial analysis- Vector based: Overlay operations, multilayer operations Spatial analysis- Raster based: Map algebra, grid based operations, optimal path and proximity search Network analysis- Concepts, types of analysis	6	15%
END SEMESTER EXAM			

COURSE CODE	COURSE NAME	L-T-P	CREDITS	YEAR OF INTRODUCTION
22MPPE301.4	Urban Conservation	2-0-0	2	2022
Course Objectives	- To introduce the idea of Urban Conservation as an effective planning strategy and as means of addressing issues of cultural identity - To introduce the issues and practices of urban conservation at various levels and scales. - To give an overview of the Urban Conservation scenario in India, the legislations and policies involved.			
Syllabus	Introduction to the topic - The principles and ethics involved in Urban Conservation - History and evolution of conservation philosophies - Conservation in Indian context - Historic urban planning in India, the issues faced by historic settlements in modern context - Conservation Practice, Assessment, Management - Conservation as an urban planning tool - National and International agencies involved, Charters, Central and State legislations and policies.			
Expected Outcome	The students will be able to - Develop an understanding of the Urban Conservation techniques as an effective planning strategy. - Develop skill to undertake and participate in studies on Urban Conservation.			
Reference Books	- A.G. K. Menon ed. Conservation of Immovable Sites, INTACH Publication, New Delhi. - Glendinning, Miles. (2013), The Conservation Movement: a History of Architectural Preservation, ROUTLEDGE. - Feilden, Bernard M. (1982). Conservation of Historic buildings. Butterworth Co. London. - Hollis, Malcolm. (2000). Surveying Buildings. RICS Business Services Limite, UK. - Oxley, R. (2003). Survey and Repair of Traditional Buildings. Donhead Publishers, Dorset. UK.			

COURSE PLAN			
Module	Contents	Hours	Internal/ Sem Exam Marks
I	Understanding Heritage – Built and Cultural Heritage – Heritage conservation – need, debate and purpose – Conservation and Preservation, ethics and principles involved – Distinction between Architectural and Urban Conservation – History of Architectural Conservation in International and Indian context.	4	15%

II	History of emergence, formulation and development of Preservation and Conservation philosophies – Contributions of John Ruskin, William Morris, Violet-le-Duc, formation of SPAB – attitudes and debates in the field – Conservation in India – Museum conservation – Monument conservation and the role of Archaeological Survey of India – NGOs involved.	6	15%
FIRST INTERNAL TEST			
III	Overview of urban history in Indian context – Understanding the character and issues of historic cities – Selected case studies of various urban historic settlements like temple towns, administrative capitals, etc. – Historic districts and heritage precincts in modern urban context.	4	15%
IV	Conservation practice – Listing of monuments, documentation of historic structures – Assessing architectural character – Historic report – Guidelines for preservation, rehabilitation and adaptive reuse of historic structures – Heritage site management.	6	15%
SECOND INTERNAL TEST			
V	Norms for conservation of heritage buildings and sites as part of Development Regulations - Conservation as an urban planning tool – financial incentives and planning tools such as TDR (Transferable Development Right) – Urban conservation and heritage tourism, case studies such as Pondicherry French town and Mattancherry.	4	20%
VI	International (ICCROM , UNESCO etc.) and National agencies (INTACH, ASI, Urban Arts Commission etc.) involved in Urban Conservation – Critical analysis of International Charters pertaining to urban heritage and its conservation – Central and State government policies and legislations and its impact.	6	20%
END SEMESTER EXAM			

ELECTIVES III

COURSE CODE	COURSE NAME	L-T-S	CREDITS	YEAR OF INTRODUCTION
22MPPE302.1	Urban Design	2-0-0	2	2022
Course Objectives	● To introduce the application of basic urban design ● To give practice in the basic skills of urban design analysis ● To give appreciation of both the process and product of the design of the built environment ● To emphasize the need for planners to learn design, and designers to learn planning ● To provide practice in visual, graphic and spatial literacy			
Syllabus	Architecture – Urban planning and urban design relationships – Urban land use – Population density and transportation and their relationship to urban built form and environment – Urban Image and Spaces –Elements of townscape – Urban design techniques – techniques of urban design – Inventories – visual survey Site analysis			
Expected Outcome	This course will explore the fundamentals of urban design as they relate to all scales of the built environment - including regions, cities, districts, neighborhoods, blocks and parcels - and will reinforce the basics of sound community planning. The Students will learn how to analyze and measure design, how to apply its principles, how to understand the design process of creating new areas and the fundamentals of retrofitting existing ones. Students will answer the question of how a planner can impact the design of a city positively without designing buildings, and what tools are available to implement urban design plans and policies.			
Reference Books	1. Christopher Alexander et.al., A Pattern Language : Towns, Buildings, Construction, Oxford University Press, USA, 1977 2. Geoffrey Braodbent, Emerging Concepts in Urban Space Design, Taylor & Francis, 1995. 3. Gordon Cullen, The Concise Townscape, Architectural Press, 1971 4. Krier Rob, “Urban Space” academy Edition, London, 1967. 5. Larice, M, and Macdonald, E. (Ed.), The Urban Design Reader, Routledge, 2012. 6. Lynch Kevin, “The Image of the City”, MIT Press, Cambridge Man 1960. 7. Moltoch J.L., “Introduction to Landscape Design”, VNR Publishing C.,New York, 1991. 8. Paul D. Spereigen, Urban Design the Architecture of Towns and Cities, McGraw Hill Inc., 1965 9. Simon Eisner, Arthur Gallion, Stanley Eisner, The Urban Pattern, 6e, Wiley, 1993 10. Simonds J.O., Landscape Architecture – The Shaping of Man’s Natural Environment”, McGraw Hill Books Co., New York, 1916.			

COURSE PLAN		
Module	Contents	Internal/ Sem Exam Marks
I	Architecture – Urban planning and urban design relationships – Urban land use – Population density	15%
II	Transportation and their relationship to urban built form and environment – Consequences of chaotic and disordered development in urban areas and its impact on urban functions and aesthetics.	15%
FIRST INTERNAL TEST		
III	Urban Image and Spaces – Image of the city and its elements by Kevin Lynch - Perception of urban environment – Understanding the organisation and articulation of spaces – The intended, informal and incidental activities taking place in the urban spaces	15%
IV	Elements of townscape – Urban design techniques – Hierarchy of spaces – Sequence and stimulus space – Scale time formation and dynamics – Order, forms, mass and space – Symbiotic relationships function and activity	15%
SECOND INTERNAL TEST		
V	Identity, techniques of urban design – Inventories – visual survey – techniques of visual recording - Site analysis – space and regulation of urban activities	20%
VI	Urban renewal – The scope, need and the procedure- tools are available to implement urban design plans and policies.	20%
END SEMESTER EXAM		

COURSE CODE	COURSE NAME	L-T-S-D	CREDITS	YEAR OF INTRODUCTION
22MPPE302.2	LANDSCAPE PLANNING	2-0-0-0	2	2022
Course Objectives	- To understand the role of biodiversity and biodiversity values in planning of landscape. - To evolve an understanding of landscape planning in addressing the urban and rural context. - To expose various best practices practiced in the field of landscape planning.			
Syllabus	An overview of natural processes and landscape ecology, Management concepts related to urban ecology, Biodiversity Planning, Elements of Landscape Planning, landscape planning in Urban and Rural context, landscape planning as a component of regional development proposals			
Expected Outcome	The students will be able to - Appreciate the significance of landscape ecology in management of urban open spaces - Understand the significance of biodiversity values and develops a holistic approach in the planning of towns and cities. - Application of the landscape planning will enable to address the environmental issues.			
Reference Books	- Jack Ahern, Biodiversity Planning and Design: Sustainable Practices.2006 Jellicoe, G. & Jellicoe, S. The Landscape of Man, London: Thames and Hudson. 1991. - Lyall S. Designing the New Landscape. UK: Thames & Hudson. 1998. - Lyle Tillman John, Design for Human Ecosystems: Landscape, Land Use, and Natural Resources: Island Press.1985 - Lynch , K. Image of the city: The MIT Press. 1962 - Lynch, K. Site Planning, Cambridge: The MIT Press. 1962 - McHarg I. Design with Nature. NY: John Wiley & Co. 1978. - Motloch, J. L. Introduction to Landscape Design, US: John Wiley and sons., 2001 - Simonds, J.O. Landscape Architecture: The Shaping of Man’s Natural Environment, NY: McGraw Hill Book Co. Inc. 1961.			

COURSE PLAN			
Module	Contents	Hours	Internal / Sem Exam Marks
I	Landscape as an outcome of natural processes; principles and techniques of design with landform, water and vegetation; the role of surface materials, outdoor fittings and structures.	4	10%

II	Biodiversity- species, concepts and inventory, use of bio resources, valuing biodiversity, national and International policies and instruments, biodiversity planning.	3	10%
FIRST INTERNAL TEST			
III	Introduction to landscape ecology, Management Concepts related to urban ecology and urban habitats such as urban forests, river banks, regional parks and agricultural green belts. The management of open space in urban areas: ecological, economic and administrative issues.	6	20%
IV	Urban Landscape - Characteristics and components of open space patterns in towns and cities (traditional and contemporary) basic types: streets, squares, plazas, gardens, Ghats and maidans, public parks at district, local and neighborhood levels; park systems	4	20%
SECOND INTERNAL TEST			
V	Elements of Landscape Planning The rural landscape; characteristics, components and change related to agriculture, forestry and development. Landscape Assessment techniques; Basic quantitative methods of collecting, analyzing, projecting and presenting data for Landscape Planning.	6	20%
VI	Landscape planning as a component of regional development proposals for industrial location (manufacturing and extractive); environmental conservation, tourism, etc.; landscape planning in the context of urban extensions and new towns	6	20%
END SEMESTER EXAM			

COURSE CODE	COURSE NAME	L-T-S-D	CREDITS	YEAR OF INTRODUCTION
22MPPE302.3	ENERGY, CLIMATE CHANGE AND URBAN DEVELOPMENT	1-1-0-0	2	2022
Course Objectives	- To study the determinants of Energy supply and demand - To study relationship of plans, Policies and Strategies with reference to energy planning - To study various best practices for urban development with consideration for climate change			
Syllabus	Overview of Climate change and urban development, Energy and Urbanisation, Climate change and Urbanisation, Emerging Concepts			
Expected Outcome	The students will be able to - Appreciate the determinants of energy supply and demand - Develop capacity for energy optimisation. - Approach energy planning as a potential for urban development and thus integrate it to the planning process. - Appreciate and apply the new technologies related to urban development mitigating and adapting to the climate change			
Reference Books	- Andres, D., Speck, J., & Mike, L. (2009). The Smart Growth Manual. McGraw Hill. - Bicknell, J. (2009). Adapting cities to climate change: Understanding and addressing the development change. London : Earthscan. - Cities and Climate Change, OECD Publishing OECD (2010) - Global Green Standards: ISO 14000 and Sustainable Development, International Institute for Sustainable Development - Harriet Bulkeley (2013), Cities and Climate Change, (Routledge Critical Introductions to Urbanism and the City), Routledge, New York. - Jenks, M., & Burgess, R. (2000). Compact cities: Sustainable urban forms for developing countries. London: Spon Press. - Lehmann S (2015), Low Carbon Cities- Transforming Urban Systems, Routledge Publications, New York. - Owen, D. (2009). Green Metropolis: Why living smaller, living closer, and driving less are the keys to sustainability. - S.K.Dash. (2007). Climate Chnge: An Indian perspective . New Delhi: Cambridge University Press. - The Economics of Low Carbon Cities: A Mini-Stern Review for the Leeds City Region, Andy Gouldson et al., The Centre for Low Carbon Futures Partnership, University of Hull, University Of Leeds			

COURSE PLAN			
Module	Contents	Hours	Internal/ Sem Exam Marks
I	Introduction Energy, Climate change and urban development	4	10%
II	Climate change and Urbanisation Basics of Climate Change: Greenhouse gases, Anthropogenic causes, Carbon cycle, Global warming; Urban Heat Islands; Impacts of Climate Change: Climate as Forcing Variable, Location attributes, sensitivity and vulnerability of different Sectors, extreme events and their effects. Mitigation for climate change in urban areas (Case studies).	7	20%
FIRST INTERNAL TEST			
III	Energy and Urbanisation Sources of energy; Energy planning and management; Energy efficient development.	4	15%
IV	Energy Generation and Consumption Energy supply and demand, Energy consumption in cities, determinants of energy demand,	7	20%
SECOND INTERNAL TEST			
V	Plans, Policies and Strategies Related to energy planning, conservation, climate change mitigation and adaptation	4	20%
VI	Emerging Concepts Green GDP; Environmental accounting; Green Budgeting; Carbon Trading; Carbon sequencing; Compact City Concept - Implications of Urban Form, Density, Land Use Pattern, Transportation System, Waste management and Energy Conservation; New urbanism principles, Smart city concept; Policy, programmes, schemes and strategies adopted by Government (Central & State) to achieve sustainability in urban development.	4	15%
END SEMESTER EXAM			

COURSE CODE	COURSE NAME	L-T-S-D	CREDITS	YEAR OF INTRODUCTION
22MPPE302.4	Politics and Planning	1-1-0-0	2	2022
Course Objectives	- To understand the relation between Politics and Planning - To develop a comprehension of the interplay of politics in the planning process - To understand the social, economic, and cultural contexts of Politics and Planning and its influence on development/ provision/ financial/ management of resources and other basic infrastructure			
Syllabus	Interface of politics and planning, Politics related to planning and development			
Expected Outcome	The students will be able to i. Appreciate the relation between politics and planning ii. Develop capacity for resource optimisation. iii. Comprehend the influence of politics in the planning process.			
Reference Books	1. Ghose, Rina (2005). The complexities of Citizen Participation through Collaborative Governance, Space and Polity, 9(1): 61-75 2. Maarten, A.H. (1989). City Politics, Aldershot, Avebury 3. Sarma, KSRN (1979). Financing Urban Development in India, Indian Institute of Public Administration, New Delhi 4. Sharan P. (1984). Government and Politics of India, Metropolitan Book, New Delhi 5. Thompson L. And Tapscott C (Ed) (2010). Citizen and Social movements – Perspectives from the Global South; Zen Books, London 6. Vettivel, Surendra, K. (1993). Participation of Sustainable development: Theory and Practice in Government and NGOs, Vetri Publishers, New Delhi.			

COURSE PLAN			
Module	Contents	Hours	Internal/ Sem Exam Marks
I	Interface between Politics and Planning Social and economic context; State in India – political culture of the Indian state – centre- State- local political economy: 74th Constitution Amendment Act, State Finance Commissions; Emergence of the state in the federal set up	4	10%
II	City and the State State as a manager of resources – property rights, norms and standards – Government market; Government – Regulatory state, Reforming	5	20%

	state and rent seeking state – their spatial implications; Development Planning and the Indian state – Centralisation, powerlessness and decentralisation; Politics of the state and bureaucracy;		
FIRST INTERNAL TEST			
III	Politics related to Planning and development Politics related to land, shelter, urban infrastructure, resources; Regeneration and redevelopment politics; politics of provision, financing and pricing; decision making.	5	20%
IV	Politics and Civil society Politics and political society, emergence of civil society – NGO, CBO and their role in planning, postmodern urbanism, critical urban theory, collective bargaining and collective action, governance and citizen participation	6	20%
SECOND INTERNAL TEST			
V	Spatial politics and policy Spatial politics: spatial politics and competition; Politics of public space; Politics of environment, capacity and social capital; urban policy	4	20%
VI	Political movements Terrorism and surveillance, Politics of radical movements, social movements	6	10%
END SEMESTER EXAM			

FOURTH SEMESTER

COURSE CODE	COURSE NAME	L-T-S-D	CREDITS	YEAR OF INTRODUCTION
22MPS401	PLANNING THESIS	0-0-26	12	2022
Course Objectives	• To provide an opportunity for each student to do original and independent study and research on a subject concerning planning. • To explore in depth and develop a subject of his/her own choice, which adds significantly to the body of knowledge existing in the field of planning and which uses the knowledge he/she has acquired from theory and design courses previously taken			
Syllabus	The topic of the thesis may be comparative, or evaluative and should offer scope to adopt a fresh approach in formulating a concept to developing a methodology effective and useful in the field. Students shall be required to undertake thesis studies in the areas of relevance and concern in the urban and regional development process. The broad areas of study would include any one from the following; 1. Planning for region, urban renewal and development 2. Planning for infrastructural development 3. Environment and sustainable development 4. Housing & Human settlements 5. Tourism planning & development 6. Any other emerging areas in the field of urban planning.			
Expected Outcome	The students will i. develop suitable skills to critically analyze existing situations and to propose suitable planning approaches for planned growth and development. ii. be capable of independently undertaking or supervising planning projects.			

COURSE PLAN		
Module	Contents	Internal/ Sem Exam Marks
I	The submission for first internal review should have the following: Synopsis which includes a working title, background to the study, need for the study aim and objectives, methodology, scope and limitations, preliminary literature studies, and brief introduction about the study area. The study is to be presented as sheets with all necessary data including maps, statistics, photos etc. An A4 size draft report should be submitted with a minimum of 20 pages.	100
FIRST INTERNAL REVIEW (100 marks)		
II	The submission for second internal review should have the following: All previous sheets/slides with improvement, all secondary data about the study area including maps, statistics & photographs, results from primary studies & its analysis. The study is to be presented as sheets with all necessary maps, statistics, photos etc .An A4 size draft report should be submitted with minimum 40 pages.	100
SECOND INTERNAL REVIEW (100 marks)		
III	The submission for third internal review should have the following: All previous sheets/slides with improvement, Data Analysis /Findings/Results/, Inferences, Strategies/guidelines/proposals, Conclusion. The study is to be presented as sheets with all necessary maps, statistics, photos etc .An A4 size draft report should be submitted with a minimum 60 pages.	150
THIRD INTERNAL REVIEW (150 marks)		
IV	The final end semester Viva Voce will be conducted by a Evaluation committee appointed by the University. The students should submit 3 copies of the final thesis report before the final examination. The study is to be presented as A1 sheets (max. 40 no's) with all necessary maps, statistics, photos etc. The students may also present models/ short videos/ powerpoint presentations about the project.	150
END SEMESTER VIVA VOCE (150 marks)		