

Course Code	MURP 11						
Course Title	Urban & Regional Planning Studio-I						
Credit	15						
Teaching per Week	15hr/week						
Minimum weeks per Semester	18						
Effective From	June 2019						
Purpose of Course	The Purpose of the course is to make the student understand basic of Urban and Regional Planning by a live case example and studying government policies for implementing the concept and methods of urban and Regional Planning exercise for a small town settlement.						
Course Objective	To make student aware of the importance of Urban Planning exercise by local bodies in a small towns and understand different aspects related to it.						
Course Outcomes	<p>CO1 - The studio program involves learning of basic techniques such as GIS applications, remote sensing for urban planning.</p> <p>CO2 – Explain Students the importance of urban planning in a town development with appropriate infrastructure.</p> <p>CO3 – Train students to understand demographic profile of small town and its dynamics for future growth, with demand and supply chains for urban planning solutions.</p> <p>CO4- Train the students to understand spatial growth and planning of new development with reference to the trend in urban development.</p>						
Mapping between COs with PSOs		PSO1	PSO2	PSO3	PSO4	PSO5	PSO6
	CO1						
	CO2						
	CO3						
	CO4						
Pre-requisite	B.Plan, B.Arch, B.E (civil), M.A./M.Sc.(Geography / Sociology / Economics)						
Course Content	<p>The studio program involves learning of basic techniques such as GIS applications, remote sensing and statistical applications. There are four module in which subject is taught.</p> <p>Module 1: Learning GIS Applications Coordinate system and geo-coding, vector data structure and algorithms, raster data structure and algorithms, data bases for GIS – concepts, error modeling and data uncertainty, decision making through GIS, constructing spatial data infrastructure and spatial information system; National Urban Information system.</p> <p>Module 2: Learning Remote Sensing Why remote sensing, aerial and satellite remote sensing, principles of aerial remote sensing, Aerial photo-interpretation, photogrammetric, stereovision, measurement of heights / depths by relief displacement and parallax displacement. Principles of satellite remote sensing, spatial, spectral, temporal resolutions Applications in planning, population estimation, identification of squatter / unauthorized areas, sources of pollution, etc., spatial resolution related to level of Planning</p>						

	<p>Module 3: Learning Demography Sources of demographic data in India, Settlement type, growth pattern and structure: urban settlement analysis, Concentration: spatial, vertical and size, peri urban sprawl, economic base; Rural Settlements – Size, occurrence and character, transformation, Policies towards various size class settlements. Population structure and composition – Age, sex, gender, marital status, caste, religion, literacy level, etc.; Age - sex ratio, structure, pyramid; dependency ratio; occupational structure; Fertility; mortality, migration analysis, natural growth of population, migration and its implications in spatial planning.</p>
Reference Books	
Teaching Methodology	Audio Visual Presentations, Class work, Use of Software and tools, Discussion, self study Seminar and /or Assignment
Evaluation Method	60% internal assessment based on class attendance, participation, assignment, seminar, presentation, internal examination, etc. 40 % external based on viva or university examination.

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Course Code	MURP 12						
Course Title	Planning History and Theory						
Credit	3						
Teaching per Week	3 hr/week						
Minimum weeks per Semester	18						
Effective From	June 2019						
Purpose of Course	The Purpose of the course is to make the student understand history of Urban and Regional Planning which was practiced around the world with case studies and documentaries, achieves.						
Course Objective	To make student aware of the importance of history of Urban Planning and how does it affect the present day urban development challenges.						
Course Outcomes	<p>CO1 - The studio program involves learning of evolution of settlements; Hunter, gatherer, farmer and formation of organized society.</p> <p>CO2 – Explain Town planning in the pre historic period across the world and ancient India; Medieval, renaissance, industrial and postindustrial cities.</p> <p>CO3 – To make students understand definitions of town and country planning; Orthodoxies of planning; Goal formulation, objective, scope, limitations; Sustainability and rationality in planning; Components of sustainable urban and regional development.</p> <p>CO4- To teach students the Theories of city development including Concentric Zone Theory, Sector Theory, Multiple Nuclei Theory and other latest theories</p>						
Mapping between COs with PSOs		PSO1	PSO2	PSO3	PSO4	PSO5	PSO6
	CO1						
	CO2						
	CO3						
	CO4						
Pre-requisites	B.Plan, B.Arch, B.E (civil), M.A./M.Sc.(Economics, Sociology, GEography)						
Course Content	<p>Module 1: Evolution of City Building Relevance of the study of evolution of settlements; Hunter, gatherer, farmer and formation of organized society; Cosmological and other influences, origins and growth of cities, effects of cultural influence on physical form; Human settlements as an expression of civilizations; Basic elements of the city; Concepts of space, time, scale of cities.</p> <p>Module 2: Planning History Town planning in ancient India; Medieval, renaissance, industrial and postindustrial cities; City as a living spatial entity; Concepts of landmark, axis, orientation; City form as a living space; City as a political statement: New Delhi, Chandigarh, Washington D.C. Brasilia etc; Contribution of individuals to city planning: Lewis Mumford, Patrick Geddes, Peter Hall, etc; Dynamics of the</p>						

	<p>growing city, impact of industrialization and urbanization, metropolis and megalopolis.</p> <p>Module 3: Definitions and Objectives of Planning Definitions of town and country planning; Orthodoxies of planning; Goal formulation, objective, scope, limitations; Sustainability and rationality in planning; Components of sustainable urban and regional development.</p> <p>Module 4: Theories of City Development and Planning Theories Theories of city development including Concentric Zone Theory, Sector Theory, Multiple Nuclei Theory and other latest theories; Land use and land value theory of William Alonso; Ebenezer Howard's Garden City Concept; and Green Belt Concept; City as an organism: a physical, social, economic and political entity; Emerging Concepts: global city, inclusive city, safe city, etc.;</p>
Reference Books	
Teaching Methodology	Audio Visual Presentations, Class work, Use of Software and tools, Discussion, self study Seminar and /or Assignment
Evaluation Method	60% internal assessment based on class attendance, participation, assignment, seminar, presentation, internal examination, etc. 40 % external based on viva or university examination.

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Course: MURP 13: Socio-economic basis for Planning

Course Code	MURP 13						
Course Title	Socio-economic basis for Planning						
Credit	3						
Teaching per Week	3 hr/week						
Minimum weeks per Semester	18						
Effective From	June 2019						
Purpose of Course	The Purpose of the course is to make the student understand socio-economic aspects which affects Urban and Regional Planning.						
Course Objective	To make student understand the importance of socio economic aspects in Urban Planning and how the physical planning and growth of a city takes place revolving around socio economic activity.						
Course Outcomes	<p>CO1 – To study Sociological concepts and methods, man and environment relationships; Socio-cultural profile of Indian society and urban transformation; Tradition and modernity in the context of urban and rural settlements.</p> <p>CO2 – To understand how town planning is based on sociological criteria like social problems of slums and squatters communities, urban and rural social transformation and their impact on social life, safety, security; Crimes in urban areas and their spatial planning implications</p> <p>CO3 – To make students aware about concepts of demand, supply, elasticity and consumer markets; concept of revenue costs; Economies of scale, economic and social costs, production and factor market</p> <p>CO4- To teach students the theories of growth and development, quality of life; Human development index, poverty and income distribution, employment and livelihood; Economic principles in land use planning</p>						
Mapping between COs with PSOs		PSO1	PSO2	PSO3	PSO4	PSO5	PSO6
	CO1						
	CO2						
	CO3						
	CO4						
Pre-requisites	B.Plan, B.Arch, B.E (civil), M.A./M.Sc.(Economics, Sociology, GEography)						
Course Content	<p>Module 1: Nature and Scope of Sociology</p> <p>Sociological concepts and methods, man and environment relationships; Socio-cultural profile of Indian society and urban transformation; Tradition and modernity in the context of urban and rural settlements; Issues related to caste, age, sex, gender, health safety, and marginalized groups; Displacement, resettlement and rehabilitation due to</p>						

	<p>compulsory land acquisition.</p> <p>Module 2: Community and Settlements Social problems of slums and squatters communities, urban and rural social transformation and their impact on social life, safety, security; Crimes in urban areas and their spatial planning implications, social structure and spatial planning; Role of socio-cultural aspects on growth patterns of city and neighbourhood communities; Social planning and policy, and community participation; Marginalization and concepts of inclusive planning, and gender concerns in planning. Settlement Policy: National Commission on Urbanization, Rural Habitat Policy and experiences from developing countries regarding settlement structure, growth and spatial distribution.</p> <p>Module 3: Elements of Micro and Macro Economics Concepts of demand, supply, elasticity and consumer markets; concept of revenue costs; Economies of scale, economic and social costs, production and factor market; Different market structures and price determination; market failures, cost-benefit analysis, public sector pricing; Determinants of national income, consumption, investment, inflation, unemployment, capital budgeting, risk and uncertainty, and long-term investment planning.</p> <p>Module 4: Development Economics and Lessons from Indian Experiences Economic growth and development, quality of life; Human development index, poverty and income distribution, employment and livelihood; Economic principles in land use planning; Policies and strategies in economic planning, balanced versus unbalanced growth, public sector dominance; changing economic policies, implications on land.</p>
Reference Books	
Teaching Methodology	Audio Visual Presentations, Class work, Use of Softwares and tools, Discussion, self study Seminar and /or Assignment
Evaluation Method	60% internal assessment based on class attendance, participation, assignment, seminar, presentation, internal examination, etc. 40 % external based on viva or university examination.

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Course: MURP 14: Planning Techniques

Course Code	MURP 14						
Course Title	Planning Techniques						
Credit	3						
Teaching per Week	3 hr/week						
Minimum weeks per Semester	18						
Effective From	June 2019						
Purpose of Course	The Purpose of the course is to make the student understand techniques and tools used in urban planning exercise.						
Course Objective	To make student understand the latest techniques used in physical planning exercise and importance of appropriate type of techniques for each different problems of urban planning.						
Course Outcomes	<p>CO1 – Learning data base for physical surveys including land use, building use, density, building age, etc., and socio-economic surveys; Survey techniques; Land use classification or coding and expected outputs</p> <p>CO2 – To understand classification of regions, delineation techniques of various types of regions, analysis of structure of nodes, hierarchy, nesting and rank size; Scalogram, sociogram, etc</p> <p>CO3 – Learning methods of population forecasts and projections; Lorenz Curve, Ginni Ratio, Theil's index, rations: urban – rural, urban concentration, metropolitan concentration</p> <p>CO4- To teach students methods of population forecasts and projections; Lorenz Curve, Ginni Ratio, Theil's index, rations: urban – rural, urban concentration, metropolitan concentration.</p>						
Mapping between COs with PSOs		PSO1	PSO2	PSO3	PSO4	PSO5	PSO6
	CO1						
	CO2						
	CO3						
	CO4						
Pre-requisites	B.Plan, B.Arch, B.E (civil), M.A./M.Sc.(Economics, Sociology, GEography)						
Course Content	<p>Module 1: Survey Techniques and Mapping Learning data base for physical surveys including land use, building use, density, building age, etc., and socio-economic surveys; Survey techniques; Land use classification or coding and expected outputs; 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.</p> <p>Module 2: Analytical Methods Learning classification of regions, delineation techniques of various types of regions, analysis of structure of nodes, hierarchy, nesting and rank size; Scalogram, sociogram, etc.;</p>						

	<p>Planning balance sheet; Threshold analysis; Input output analysis, SWOT analysis;</p> <p>Module 3: Demographic Methods Learning methods of population forecasts and projections; Lorenz Curve, Ginni Ratio, Theil's index, rations: urban – rural, urban concentration, metropolitan concentration; Location dimensions of population groups – social area and strategic choice approach – inter connected decision area analysis.</p> <p>Module 4: Planning Standards Learning spatial standards, performance standards and benchmarks, and variable standards; UDPFI guidelines, zoning regulations and development control rules and regulations.</p>
Reference Books	
Teaching Methodology	Audio Visual Presentations, Class work, Use of Softwares and tolls, Discussion, self study Seminar and /or Assignment
Evaluation Method	60% internal assessment based on class attendance, participation, assignment, seminar, presentation, internal examination, etc. 40 % external based on viva or university examination.

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Course: MURP 15: Development Finance							
Course Code	MURP 15						
Course Title	Development Finance						
Credit	3						
Teaching per Week	3 hr/week						
Minimum weeks per Semester	18						
Effective From	June 2019						
Purpose of Course	The Purpose of the course is to make the student understand financial aspects in urban planning exercise.						
Course Objective	To make student understand the relationship between financial aspects of a development region and its planning problems solution with respect to income and expenditure of the local bodies.						
Course Outcomes	<p>CO1 – Learning the development finance approaches, concepts, components, process, credit rating</p> <p>CO2 – To understand Finance Commissions, functions, relationship between Central, State and Urban Local Government.</p> <p>CO3 – to understand municipal finance by Urban reform incentive fund, Sources of revenues; Equities; Loans; Debt financing; City challenge fund, Pooled finance development fund, National urban infrastructure fund, Municipal Bonds, Miscellaneous sources.</p> <p>CO4- To teach students Investment Planning and Financing Mechanism Link with spatial plans, process, components, investment needs, budgeting, financial investments in infrastructure and services. Financing of urban development, infrastructure and services</p>						
Mapping between COs with PSOs		PSO1	PSO2	PSO3	PSO4	PSO5	PSO6
	CO1						
	CO2						
	CO3						
	CO4						
Pre-requisites	B.Plan, B.Arch, B.E (civil), M.A./M.Sc.(Economics, Sociology, Geography)						
Course Content	<p>Module 1: Overview of Development Finance Approaches, concepts, components, process, credit rating.</p>						

	<p>Module 2: State Finance Finance Commissions, functions, relationship between Central, State and Urban Local Government.</p> <p>Module 3: Municipal Finance Urban reform incentive fund, Sources of revenues; Equities; Loans; Debt financing; City challenge fund, Pooled finance development fund, National urban infrastructure fund, Municipal Bonds, Miscellaneous sources; Structure of finances, fiscal problems and issues of financial management, implications of 74th Constitution Amendment Act for municipal finance, expenditure pattern, Bilateral and multi-lateral lending intuitions mobilizing resources for a project - financial resources, land resources, project resources, and other resources.</p> <p>Module 4: Investment Planning and Financing Mechanism Link with spatial plans, process, components, investment needs, budgeting, financial investments in infrastructure and services. Financing of urban development, infrastructure and services – mechanisms and instruments, subsidy reduction, cost recovery, public private partnerships; Financial appraisal, investment appraisal; Financial Risk – Sources, Measures and perspectives on risk, Sensitivity analysis.</p>
Reference Books	
Teaching Methodology	Audio Visual Presentations, Class work, Use of Softwares and tolls, Discussion, self study Seminar and /or Assignment
Evaluation Method	60% internal assessment based on class attendance, participation, assignment, seminar, presentation, internal examination, etc. 40 % external based on viva or university examination.

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Course: MURP 16: Planning for Tourism

Course Code	MURP16						
Course Title	Planning for Tourism						
Credit	3						
Teaching per Week	3hr/week						
Minimum weeks per Semester	18						
Effective From	June 2019						
Purpose of Course	The Purpose of the course is to make the student capable of implementing the concept and methods of planning tourism. To make student aware of different policies and program related to tourism and its implementation and impact.						
Course Objective	To make student aware of the growing importance of Tourism in Planning and understand different aspects related to it.						
Course Outcomes	CO1 - To explain sustainable tourism development with the least amount of negative influence on the environment. CO2 – Explain Students the importance of tourism promotion in a country's economic development. CO3 – Train students for current tourism planning and development approaches.						
Mapping between COs with PSOs		PSO1	PSO2	PSO3	PSO4	PSO5	PSO6
	CO1						
	CO2						
	CO3						
Pre-requisite	B.Plan, B.Arch, B.E (civil)						
Course Content	<p>Module 1: Introduction to Tourism Definitions, scope, nature, classification and dimension, tourism as an industry, tourism in developed and developing world.</p> <p>Module 2: Tourism Sector – impacts Relationship between Tourism and Urban Development, Tourism multiplier and forecasting methods: capacity building and carrying capacity planning for tourism projects, tourism and cultural and social change: Socio-cultural problems, environmental degradation.</p> <p>Module 3: Planning for Tourism 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; implementation and management, role of travel and tourism promoting agencies, monitoring the tourism development; Tourism marketing - Concept, techniques and strategies.</p> <p>Module 4: Policies and Programmes Tourism policies at various levels.</p>						

Reference Books	<ol style="list-style-type: none"> 1. Colin Michael Hall (2008), "Tourism Planning: Policies, Process & relationship", Prentice Hall. 2. David Newsone (2008), " Natural area tourism Ecology impacts and management", Chainal View Publication 3. Clare Gunn (2009)," Tourism Planning: Basics, Concepts, cases", France & Taylor Publication 4. Charles R. Goeldner , J. R. Brent Ritchie "Tourism: Principles, Practices,Philosophies" (2009) John Wiley & Sons 5. A. Satish Babu "Tourism Development in India" (2008) 6. APH Publishing Corporation, New Delhi 7. Christopher M Law "Urban Tourism: The Visitor Economy and the Growth of Large Cities (2009),Continuum 8. K.K. Sharma, "Planning for Tourism" (2003) Sarup & Sons, New Delhi 9. Planning Commission "Working Group Report on Tourism (2012-2017)"(2012) Planning Commission, Government of India 10. Ministry of Tourism "Strategic Action Plan for Tourism in India" (2011) Ministry of Tourism, Government of India
Teaching Methodology	Class work, Discussion, self study Seminar and /or Assignment
Evaluation Method	60% internal assessment based on class attendance, participation, assignment, seminar, presentation, internal examination, etc. 40 % external based on viva or university examination.

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Course: MURP 21: Urban & Regional Planning Studio-II							
Course Code	MURP 21						
Course Title	Urban & Regional Planning Studio-II						
Credit	15						
Teaching per Week	15hr/week						
Minimum weeks per Semester	18						
Effective From	December 2019						
Purpose of Course	The Purpose of the course is to make the student understand Urban and Regional Development Plan formulations and implementation mechanics by a live case example and studying government policies and standard norms.						
Course Objective	To make student aware about Urban Planning exercise by studying Urban development plans formulation by Urban local bodies in cities, and big towns.						
Course Outcomes	<p>CO1 - The studio program involves learning the exercise pertains to large cities and emerging metropolitan cities which ranges from preparation of sustainable development plans to sector specific themes</p> <p>CO2 – Enables the students to develop an approach/ framework for the task of urban development by a field based data collection and data generation which is then analyzed for generation of development plans and strategies.</p> <p>CO3 – Train students to understand similar case studies, awareness of relevant norms and standards through extensive literature search. Students are required to prepare a comprehensive list of required data and identify probable sources.</p> <p>CO4- Train the students to translate learning from the core and elective subjects to the studio exercise. The introduction of GIS in the studio enables them to apply the tool in the studio exercise.</p>						
Mapping between COs with PSOs		PSO1	PSO2	PSO3	PSO4	PSO5	PSO6
	CO1						
	CO2						
	CO3						
	CO4						
Pre-requisite	B.Plan, B.Arch, B.E (civil), M.A./M.Sc.(Economics/Sociology/geography)						
Course Content	<p>The studio exercise focuses on the planning, development and design aspect (in line with the other core and elective courses offered in the semester).</p> <p>Module 1: The exercise pertains to large cities and emerging metropolitan cities and ranges from preparation of sustainable development plans to sector specific themes pertaining to tourism, SEZs, etc.</p> <p>Module 2: The studio exercise enables them to develop an</p>						

	<p>approach/ framework for the task; it is field based as a database is generated that is analyzed and the plan and strategies are formulated.</p> <p>Module 3: Initial study involves understanding of the exercise through theories, study of similar case studies, awareness of relevant norms and standards through extensive literature search. Students are required to prepare a comprehensive list of required data and identify probable sources before making a field visit to the case study town/city.</p> <p>Module 4: Students are encouraged to translate learning from the core and elective subjects to the studio exercise. The introduction of GIS in the studio enables them to apply it in the studio exercise.</p>
Reference Books	
Teaching Methodology	Audio Visual Presentations, Class work, Use of Softwares and tools, Discussion, self study Seminar and /or Assignment
Evaluation Method	60% internal assessment based on class attendance, participation, assignment, seminar, presentation, internal examination, etc. 40 % external based on viva or university examination.

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Course: MURP 22: Infrastructure and Transportation Planning							
Course Code	MURP 22						
Course Title	Infrastructure and Transportation Planning						
Credit	3						
Teaching per Week	3hr/week						
Minimum weeks per Semester	18						
Effective From	December 2019						
Purpose of Course	The Purpose of the course is to make the student understand role of infrastructure development and transportation planning in Urban Planning implementation						
Course Objective	To make student aware about infrastructure development and transportation planning with latest trends and technological advancement in Urban Planning across globe.						
Course Outcomes	<p>CO1 – to learn elements of Infrastructure (physical, social, utilities and services); Basic definitions, concepts, significance and importance; Data required for provision and planning of urban networks and services</p> <p>CO2 – Enables the students to develop an understanding of planning and management of water, sanitation and storm Water.</p> <p>CO3 – Train students to learn about 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.</p> <p>CO4- Train the students to understand role of transport, types of transport systems, evolution of transport modes, transport problems and mobility issues; Urban form and Transport patterns, land use – transport cycle, concept of accessibility; Hierarchy, capacity and geometric design elements of roads and intersections; Basic principles of Transport infrastructure design; Traffic and transportation surveys and studies</p>						
Mapping between COs with PSOs		PSO1	PSO2	PSO3	PSO4	PSO5	PSO6
	CO1						
	CO2						
	CO3						
	CO4						
Pre-requisite	B.Plan, B.Arch, B.E (civil), M.A./M.Sc.(Economics/Sociology/geography)						

<p>Course Content</p>  	<p>Module 1: Role of Infrastructure in Development Elements of Infrastructure (physical, social, utilities and services); Basic definitions, concepts, significance and importance; Data required for provision and planning of urban networks and services; Resource analysis, provision of infrastructure, and land requirements; Principles of resource distribution in space; Types, hierarchical distribution of facilities, Access to facilities, provision and location criteria, Norms and standards, etc.</p> <p>Module 2: Planning and Management of Water, Sanitation and Storm Water 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;</p> <p>Module 3: Planning and Management of Municipal Wastes, Power and Fire 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.</p> <p>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.</p> <p>Module 4: City Development and Transport Infrastructure Planning, Management and Design .Role of transport, types of transport systems, evolution of transport modes, transport problems and mobility issues; Urban form and Transport patterns, land use – transport cycle, concept of accessibility; Hierarchy, capacity and geometric design elements of roads and intersections; Basic principles of Transport infrastructure design; Traffic and transportation surveys and studies, traffic and travel characteristics; Urban transport planning process – stages, study area, zoning, data base, concept of trip generation Transport, environment and safety issues; principles and approaches of traffic management, transport system management.</p>
Reference Books	
Teaching Methodology	Audio Visual Presentations, Class work, Use of Softwares and tools, Discussion, self study Seminar and /or Assignment
Evaluation Method	60% internal assessment based on class attendance, participation, assignment, seminar, presentation, internal examination, etc. 40 % external based on viva or university examination.

Course: MURP 23: Housing and Environmental Planning							
Course Code	MURP 23						
Course Title	Housing and Environmental Planning						
Credit	3						
Teaching per Week	3hr/week						
Minimum weeks per Semester	18						
Effective From	December 2019						
Purpose of Course	The Purpose of the course is to make the student understand role of environmental issues and challenges in urban planning with respect to environmental aspects and planning of Housing						
Course Objective	To make student aware about environmental issues, impact and assessment in preparation of urban development. The subject also explains the importance of housing in urban planning exercise.						
Course Outcomes	<p>CO1 – to learn about shelter as a basic requirement, determinants of housing form, Census of India definitions, Introduction to policies, housing need, demand and supply, dilapidation, structural conditions, materials of constructions, housing age, occupancy rate, crowding, housing shortage, income and affordability, poverty and slums</p> <p>CO2 – Enables the students to develop an understanding of Housing as 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, ghettoism, gender issues, housing for the elderly</p> <p>CO3 – Train students to learn about housing as an important land use component of city plan / master plan, considerations for carrying out city level housing studies, projections, and land use provisions.</p> <p>CO4- Approaches to neighborhood living in traditional and contemporary societies, elements of neighborhood structure, Planning and design criteria for modern neighborhoods, norms and criteria for area distribution, housing and area planning standards.</p>						
Mapping between COs with PSOs		PSO1	PSO2	PSO3	PSO4	PSO5	PSO6
	CO1						
	CO2						
	CO3						
	CO4						
Pre-requisite	B.Plan, B.Arch, B.E (civil), M.A./M.Sc.(Economics/Sociology/geography)						
Course Content	<p>Module 1: Concepts and Definitions</p> <p>Shelter as a basic requirement, determinants of housing form, Census of India definitions, Introduction to policies, housing need, demand and supply, dilapidation, structural conditions, materials of constructions, housing age, occupancy rate, crowding, housing shortage, income and affordability, poverty and slums, houseless</p>						

	<p>population</p> <p>Various housing typologies viz. traditional houses, plotted development, group housing, multi storied housing, villas, chawls, etc., slums and squatters, night shelters, public health issues related to housing, various theories of housing, concept of green housing, green rating of housing projects.</p> <p>Module 2: Social and Economic Dimensions</p> <p>Housing as 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, ghettoism, gender issues, housing for the elderly.</p> <p>Contribution of housing to micro and macro economy, contribution to national wealth and GDP, housing taxation, national budgets, fiscal concessions, forward and backward linkages.</p> <p>Module 3: Housing and the City</p> <p>Understanding housing as an important land use component of city plan / master plan, considerations for carrying out city level housing studies, projections, land use provisions; Suitability of land for housing, housing stress identification, projecting housing requirements, calculating housing shortages, housing allocation.</p> <p>Module 4: Planning for Neighborhoods</p> <p>Approaches to neighborhood living in traditional and contemporary societies, elements of neighborhood structure, Planning and design criteria for modern neighborhoods, norms and criteria for area distribution, housing and area planning standards, net residential density and gross residential density, development controls and building byelaws, UDPFI guidelines, NBC 2005 provisions and Case studies of neighborhood planning.</p>
Reference Books	
Teaching Methodology	Audio Visual Presentations, Class work, Use of Software and tools, Discussion, self study Seminar and /or Assignment
Evaluation Method	60% internal assessment based on class attendance, participation, assignment, seminar, presentation, internal examination, etc. 40 % external based on viva or university examination.

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Course: MURP 25: Politics and Planning

Course Code	MURP 25						
Course Title	Politics and Planning						
Credit	3						
Teaching per Week	3hr/week						
Minimum weeks per Semester	18						
Effective From	December 2019						
Purpose of Course	The Purpose of the course is to make the student understand role of Interface between Politics and Planning						
Course Objective	To make student aware about how politics affect the urban planning and growth based on state and national level policies with reference to preferences of industrial development by governments of various states.						
Course Outcomes	<p>CO1 – To learn about 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.</p> <p>CO2 – Enables the students to develop an understanding of State as a manager of resources – property rights, norms and standards – Government market and market by Government – Regulatory State, Reforming State, and Rent Seeking State – their spatial implications</p> <p>CO3 – Train students to learn about Politics related to land, shelter, urban infrastructure, resources; Regeneration and redevelopment politics; politics of provision, financing and pricing; decision-making and decision taking</p> <p>CO4- Approaches to Politics and emergence of civil society – NGO, CBO and their role in planning, development and management, collective bargaining and collective action</p>						
Mapping between COs with PSOs		PSO1	PSO2	PSO3	PSO4	PSO5	PSO6
	CO1						
	CO2						
	CO3						
	CO4						
Pre-requisite	B.Plan, B.Arch, B.E (civil), M.A./M.Sc.(Economics/Sociology/geography)						
Course Content	<p>Module 1: 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.</p>						

	<p>Module 2: City and the State State as a manager of resources – property rights, norms and standards – Government market and market by Government – Regulatory State, Reforming State, and Rent Seeking State – their spatial implications; Development planning and the Indian state – Centralization, powerlessness and decentralization; spatial politics and competition; Politics of the State and bureaucracy; New State spaces, invited and contested spaces – changing role of the state</p> <p>Module 3: 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 and decision taking</p> <p>Module 4: Politics and Civil Society Politics and emergence of civil society – NGO, CBO and their role in planning, development and management, collective bargaining and collective action</p>
Reference Books	
Teaching Methodology	Audio Visual Presentations, Class work, Use of Software and tools, Discussion, self study Seminar and /or Assignment
Evaluation Method	60% internal assessment based on class attendance, participation, assignment, seminar, presentation, internal examination, etc. 40 % external based on viva or university examination.

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Course: MURP 26: Inclusive Urban Planning							
Course Code	MURP 26						
Course Title	Inclusive Urban Planning						
Credit	3						
Teaching per Week	3hr/week						
Minimum weeks per Semester	18						
Effective From	December 2019						
Purpose of Course	The Purpose of the course is to make the student understand the inclusiveness Urban Planning and policy formulation for urban development.						
Course Objective	To make student aware about all sections of the societies and their needs are included in the urban planning exercise by the government for the development of urban areas in an effective and equitable manner.						
Course Outcomes	<p>CO1 – To learn about Definitions and components of inclusive and equitable urban planning</p> <p>CO2 – Enables the students to develop an understanding of Stakeholders Profile and Needs, Access to Shelter, Services and Livelihoods Urban Poor, Informal Sector, Gender, Children, Elderly, Disabled, Displaced people, etc</p> <p>CO3 – Train students to learn about Participatory Planning Process and Policies, Programmes and Legislation</p> <p>CO4- Approaches Inclusive zoning, development and building regulation</p>						
Mapping between COs with PSOs		PSO1	PSO2	PSO3	PSO4	PSO5	PSO6
	CO1						
	CO2						
	CO3						
	CO4						
Pre-requisite	B.Plan, B.Arch, B.E (civil), M.A./M.Sc.(Economics/Sociology/geography)						
Course Content	<p>Module 1: Understanding Inclusive Planning</p> <p>Definitions and components</p> <p>Module 2: 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</p> <p>Module 3: Participatory Planning Process and Policies, Programmes</p>						

	<p>and Legislation Methods, role of stakeholders (including civil society organizations), etc.; Related Acts, Five year plans, policies and programmes at various levels.</p> <p>Module 4: Planning interventions Inclusive zoning, development and building regulations</p>
Reference Books	
Teaching Methodology	Audio Visual Presentations, Class work, Use of Software and tools, Discussion, self study Seminar and /or Assignment
Evaluation Method	60% internal assessment based on class attendance, participation, assignment, seminar, presentation, internal examination, etc. 40 % external based on viva or university examination.

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Course:MURP 31: Urban & Regional Planning Studio-III							
Course Code	MURP 31						
Course Title	Urban & Regional Planning Studio-III						
Credit	15						
Teaching per Week	15hr/week						
Minimum weeks per Semester	18						
Effective From	December 2019						
Purpose of Course	The Purpose of the course is to make the student understand Urban and Regional planning management and its governance aspects.						
Course Objective	To make student aware about Urban Planning and its management in the implementation of physical planning exercise by governance from Urban local authorities.						
Course Outcomes	<p>CO1 - The focus of the studio is on management and governance aspects (in line with the other core and elective courses offered in the semester). The exercise pertains to metropolitan cities and mega cities and ranges from preparing management plans</p> <p>CO2 – Students are also required to identify and formulate projects, work out the appraisals and do the feasibility, viability and implementation mechanisms of the projects</p> <p>CO3 – Students work on a case study town/city and have to visit the field for collection of data and interaction with city officials and stakeholders.</p> <p>CO4- students are also exposed to project identification, formulation, and appraisal, financing mechanisms and institutional framework.</p>						
Mapping between COs with PSOs		PSO1	PSO2	PSO3	PSO4	PSO5	PSO6
	CO1						
	CO2						
	CO3						
	CO4						
Pre-requisite	B.Plan, B.Arch, B.E (civil), M.A./M.Sc.(Economics/Sociology/geography)						
Course Content	<p>Module 1: The focus of the studio is on management and governance aspects (in line with the other core and elective courses offered in the semester). The exercise pertains to metropolitan cities and mega cities and ranges from preparing management plans and projects related to various sectors pertaining to infrastructure, disaster risk, riverfront development etc.</p> <p>Module 2: Students are also required to identify and formulate projects, work out the appraisals and do the feasibility, viability and implementation mechanisms of the projects. Students work on a case study town/city and have to visit the field for collection of data and interaction with city</p>						

	<p>officials and stakeholders.</p> <p>Module 3: Although planning continues to be an important aspect of the exercise, students are also exposed to project identification, formulation, and appraisal, financing mechanisms and institutional framework.</p> <p>Module 4: Students draw from the theoretical knowledge provided in the core and elective subjects related to management, finance and governance offered in the semester and translate them in their studio exercise. The culmination of the exercise is in the form of group presentations and studio report.</p>
Reference Books	
Teaching Methodology	Audio Visual Presentations, Class work, Use of Softwares and tools, Discussion, self study Seminar and /or Assignment
Evaluation Method	60% internal assessment based on class attendance, participation, assignment, seminar, presentation, internal examination, etc. 40 % external based on viva or university examination.

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Course Code	MURP 32						
Course Title	City and Metropolitan Planning						
Credit	3						
Teaching per Week	3 hr/week						
Minimum weeks per Semester	18						
Effective From	June 2020						
Purpose of Course	The Purpose of the course is to make the student understand urban Growth and System of Cities Growth of cities scale, complexity and its impact on national development, cities as engines of growth, cities as ecosystems, resources in cities .						
Course Objective	To make student aware about Urban Planning and its implementation for Metropolitan Cities.						
Course Outcomes	<p>CO1 - to learn about urban growth and System of Cities Growth of cities scale, complexity and its impact on national development, cities as engines of growth, cities as ecosystems, resources in cities</p> <p>CO2 – Students are also required to identify City – Region Linkages City, fringe and the periphery - physical and functional linkages, peri-urban development.</p> <p>CO3 – Metro and Mega Cities: Problems and Issues Growth trends and processes, characteristics, problems, concepts and concerns of urban sustainability</p> <p>CO4- To learn about Human Settlement Planning, Urban Development Policies and Programmes Concepts, approaches, strategies and tools</p>						
Mapping between COs with PSOs		PSO1	PSO2	PSO3	PSO4	PSO5	PSO6
	CO1						
	CO2						
	CO3						
	CO4						
Pre-requisite	B.Plan, B.Arch, B.E (civil), M.A./M.Sc.(Economics/Sociology/geography)						
Course Content	<p>Module 1: Urban Growth and System of Cities Growth of cities scale, complexity and its impact on national development, cities as engines of growth, cities as ecosystems, resources in cities.</p> <p>Module 2: City – Region Linkages City, fringe and the periphery - physical and functional linkages, peri-urban development.</p> <p>Module 3: Metro and Mega Cities: Problems and Issues Growth trends and processes, characteristics, problems, concepts and concerns of urban sustainability, issues related to diversity and unintended growth, economic, social and</p>						

	<p>environmental sustainability, quality of life, inclusivity and equity, climate change, transit oriented development, participatory planning. Inner city – issues and problems, approach to development.</p> <p>Module 4 : Human Settlement Planning, Urban Development Policies and Programmes Concepts, approaches, strategies and tools; Policies and programmes at various levels, impact on metro and mega city development.</p>
Reference Books	
Teaching Methodology	Audio Visual Presentations, Class work, Use of Softwares and tools, Discussion, self study Seminar and /or Assignment
Evaluation Method	60% internal assessment based on class attendance, participation, assignment, seminar, presentation, internal examination, etc. 40 % external based on viva or university examination.

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Course: MURP 33: Urban Heritage Conservation							
Course Code	MURP33						
Course Title	Urban Heritage Conservation						
Credit	3						
Teaching per Week	3hr/week						
Minimum weeks per Semester	18						
Effective From	June 2019						
Purpose of Course	The Purpose of the course is to make the student capable of implementing the concept, methods and tools of Urban Heritage Conservation. To make student acquainted of different policies and program related to Urban Heritage conservation at national level as well as at international level.						
Course Objective	To make students acquainted with the concept of Urban heritage Conservation and its importance in planning.						
Course Outcomes	CO1 - To explain Heritage conservation and its importance in sustainable development. CO2 – Explain Students the importance Urban heritage conservation in order understand the legacy. CO3 – To explain and train for the different methods that are adopted for urban heritage and conservation CO4 – Train students for current urban heritage and conservation development approaches.						
Mapping between COs with PSOs		PSO1	PSO2	PSO3	PSO4	PSO5	PSO6
	CO1						
	CO2						
	CO3						
	CO4						
Pre-requisite	B.Plan, B.Arch, B.E (civil)						
Course Content	<p>Module 1: Introduction to Urban Heritage Typology / classification, inventories, mapping; Human habitation in historical context; Heritage as a motivating force in sustainable urban conservation and development,</p> <p>Module 2: Heritage Conservation Natural heritage conservation - typologies, policies for conservation, regulatory measures, community participation; Concept of Historic Urban Landscapes; Built heritage conservation - determinants of built form on heritage; Historic urban infrastructure and traditional water harvesting systems. Integration of historic monuments / areas / cores / urban systems in the developmental process and land use, regulatory measures and community involvement; Intangible cultural heritage and development: issues, conservation strategies. Preparation of conservation and heritage management plans.</p> <p>Module 3: Heritage and Tourism, Policies and Programmes, Legislation Cultural and heritage based tourism - nature, potential and prospects, marketing aspects; Acts and laws recognizing conservation / regeneration; Heritage toolkit; Implications of 74th Constitution Amendment Act.</p>						

	<p>Module 4: Design in Human Habitation Social / cultural / ecological / energy determinants of design; Imagibility of the city; Structure of urban spaces – location criteria of activities and urban uses; Urban Regeneration, renewal, rehabilitation, revitalization, reconstruction and redevelopment - concepts, interventions, processes, approaches and methods, tools.</p>
Reference Books	<ol style="list-style-type: none"> 1. A History of Architectural Conservation by Jukka Jokilehto 2. Our Architectural Heritage from Consciousness to Conservation. Paris, UNESCO. By Erder Cevat. 3. Heritage Conservation 1996, New Delhi. By Batra, N.L. 4. Archaeological Works Code, New Delhi. By ASI 5. Archaeological Remains: Monuments and Museums, New Delhi. By ASI 6. Urban Conservation, MIT Press, Cambridge 1999. By Cohen, Nahoum
Teaching Methodology	Class work, Discussion, self study Seminar and /or Assignment
Evaluation Method	60% internal assessment based on class attendance, participation, assignment, seminar, presentation, internal examination, etc. 40 % external based on viva or university examination.

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Course: MURP 34: Infrastructure Planning							
Course Code	MURP 34						
Course Title	Infrastructure Planning						
Credit	3						
Teaching per Week	3 hr/week						
Minimum weeks per Semester	18						
Effective From	June 2020						
Purpose of Course	The Purpose of the course is to make the student understand various aspects of urban infrastructure.						
Course Objective	To make student aware about Urban Planning with reference to development of various physical and social infrastructure facilities as per standards.						
Course Outcomes	<p>CO1 - to learn about urban Water Supply and Sanitation Quantity and quality, source of supply, transmission and distribution, treatment methods, design guidelines. Sanitation – concepts, disposal systems</p> <p>CO2 – Students are also required to learn Solid Waste Disposal and Management Basic principles, generation, characteristics, collection, disposal, management</p> <p>CO3 – to learn about Fire and Electrification, and Social Infrastructure Planning for fire protection, services and space standards, location criteria; Planning for Education, health, civic, cultural infrastructure</p> <p>CO4- To learn about Planning for infrastructure and facilities for transport</p>						
Mapping between COs with PSOs		PSO1	PSO2	PSO3	PSO4	PSO5	PSO6
	CO1						
	CO2						
	CO3						
	CO4						
Pre-requisite	B.Plan, B.Arch, B.E (civil), M.A./M.Sc.(Economics/Sociology/geography)						
Course Content	<p>Module 1: Water Supply and Sanitation</p> <p>Quantity and quality, source of supply, transmission and distribution, treatment methods, design guidelines. Sanitation – concepts, disposal systems, low cost sanitation options; engineering aspects of sewage disposal; Wastewater – generation, disposal system Storm water drainage – systems</p>						

	<p>Module 2: Solid Waste Disposal and Management Basic principles, generation, characteristics, collection, disposal, management.</p> <p>Module 3: Fire and Electrification, and Social Infrastructure Planning for fire protection, services and space standards, location criteria; Planning for Education, health, civic, cultural infrastructure</p> <p>Module 4: Traffic and Transportation Planning for infrastructure and facilities for transport</p>
Reference Books	
Teaching Methodology	Audio Visual Presentations, Class work, Use of Softwares and tools, Discussion, self study Seminar and /or Assignment
Evaluation Method	60% internal assessment based on class attendance, participation, assignment, seminar, presentation, internal examination, etc. 40 % external based on viva or university examination.

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Course: MURP 35: Urban Development Management							
Course Code	MURP 35						
Course Title	Urban Development Management						
Credit	3						
Teaching per Week	3 hr/week						
Minimum weeks per Semester	18						
Effective From	June 2020						
Purpose of Course	The Purpose of the course is to make the student understand various aspects of urban development management.						
Course Objective	To make student aware about Urban Planning with reference to management of urban development by local bodies						
Course Outcomes	<p>CO1 - to learn about Introduction to Development Management and Concept, approaches, components, interface with national goals and political economic system</p> <p>CO2 – to learn about Urban Development Management Strategies, Tools and Techniques; organizations involved</p> <p>CO3 – to learn about Land and Real Estate Development Economic concepts of land, Land Pricing / valuation</p> <p>CO4- To learn about Information System and Urban Reforms</p>						
Mapping between COs with PSOs		PSO1	PSO2	PSO3	PSO4	PSO5	PSO6
	CO1						
	CO2						
	CO3						
	CO4						
Pre-requisite	B.Plan, B.Arch, B.E (civil), M.A./M.Sc.(Economics/Sociology/geography)						
Course Content	<p>Module 1: Introduction to Development Management Concept, approaches, components, interface with national goals and political economic system.</p> <p>Module 2: Urban Development Management Strategies, Tools and Techniques; organizations involved</p> <p>Module 3: Land and Real Estate Development Economic concepts of land, Land Pricing / valuation; Economic principles of land use; demand forecasting for land use: factors affecting land supply and demand; Land development methods, Supply Management, Demand side Management; Real estate markets, type of property development and its impact on supply and demand, method of development, environmental considerations.</p>						

	Module 4: Information System and Urban Reforms Spatial and Non - spatial information systems; Urban reforms and acts and policies.
Reference Books	
Teaching Methodology	Audio Visual Presentations, Class work, Use of Softwares and tolls, Discussion, self study Seminar and /or Assignment
Evaluation Method	60% internal assessment based on class attendance, participation, assignment, seminar, presentation, internal examination, etc. 40 % external based on viva or university examination.

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Course: MURP 36: Energy, Climate change and Urban development							
Course Code	MURP 36						
Course Title	Energy, Climate change and Urban development						
Credit	3						
Teaching per Week	3 hr/week						
Minimum weeks per Semester	18						
Effective From	June 2020						
Purpose of Course	The Purpose of the course is to make the student understand various aspects of urban development with respect to Climate change.						
Course Objective	To make student aware about Urban Planning with reference to Energy, Climate change and Urban development						
Course Outcomes	<p>CO1 - to learn Energy, Climate change and Urban Development – Interface.</p> <p>CO2 – to learn about Energy Generation and Consumption. Energy Supply and Demand, Energy Consumption in cities</p> <p>CO3 – to learn about Energy Planning and Management, and Mitigation and Adaptation to Climate Change.</p> <p>CO4- To learn about Plans, Policies and Strategies. Related to energy planning, conservation, climate change</p>						
Mapping between COs with PSOs		PSO1	PSO2	PSO3	PSO4	PSO5	PSO6
	CO1						
	CO2						
	CO3						
	CO4						
Pre-requisite	B.Plan, B.Arch, B.E (civil), M.A./M.Sc.(Economics/Sociology/geography)						
Course Content	<p>Module 1: Introduction</p> <p>Energy, Climate change and Urban Development – Interface.</p> <p>Module 2: Energy Generation and Consumption. Energy Supply and Demand, Energy Consumption in cities, determinants of energy demand, phenomenon of climate change, factors influencing climate change, impacts of climate change</p> <p>Module 3: Energy Planning and Management, and Mitigation and Adaptation to Climate Change. Energy efficient development, Compact city form, Transit oriented development. Mechanisms and measures for mitigating and adapting to climate change at various levels</p>						

	Module 4: Plans, Policies and Strategies. Related to energy planning, conservation, climate change mitigation and adaptation.
Reference Books	
Teaching Methodology	Audio Visual Presentations, Class work, Use of Softwares and tools, Discussion, self study Seminar and /or Assignment
Evaluation Method	60% internal assessment based on class attendance, participation, assignment, seminar, presentation, internal examination, etc. 40 % external based on viva or university examination.

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Course: MURP 41: Thesis							
Course Code	MURP 41						
Course Title	Thesis						
Credit	3						
Teaching per Week	3 hr/week						
Minimum weeks per Semester	18						
Effective From	June 2020						
Purpose of Course	The Purpose of the course is to make the students choose a core area of their interest in urban planning program and prepare a dissertation						
Course Objective	To make student learn about choosing a topic of their choice and solve a real time urban planning problem.						
Course Outcomes	<p>CO1 - to learn developing a urban planning problem</p> <p>CO2 – to learn developing and understand the hypothesis generation.</p> <p>CO3 – to learn about methods of data collection and data analysis in order to identify issues and challenges for their dissertation topics.</p> <p>CO4- To give appropriate planning level solution for the problem identified for the dissertation.</p>						
Mapping between COs with PSOs		PSO1	PSO2	PSO3	PSO4	PSO5	PSO6
	CO1						
	CO2						
	CO3						
	CO4						
Pre-requisite	B.Plan, B.Arch, B.E (civil), M.A./M.Sc.(Economics/Sociology/geography)						
Course Content	<p>Module 1: Introduction to urban planning thesis and dissertation</p> <p>Module 2: Developing an understanding about real time urban planning problem and developing a hypothesis</p> <p>Module 3: Methods of data collection, data analysis, structure of the thesis.</p> <p>Module 4: Plans, Policies and Strategies. Related to identified problem from thesis.</p>						

Reference Books	
Teaching Methodology	Audio Visual Presentations, Class work, Use of Softwares and tolls, Discussion, self study Seminar and /or Assignment
Evaluation Method	60% internal assessment based on class attendance, participation, assignment, seminar, presentation, internal examination, etc. 40 % external based on viva or university examination.

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Course Code	MURP 42						
Course Title	Project Planning and Management						
Credit	3						
Teaching per Week	3 hr/week						
Minimum weeks per Semester	18						
Effective From	December 2020						
Purpose of Course	The Purpose of the course is to make the students understand the urban level Projects; Nature of planning projects; Project Life Cycle; Identification of projects						
Course Objective	The objective of the course is to make students competent to develop project management skills for urban planning projects at large.						
Course Outcomes	<p>CO1 - to learn the basics of Projects planning; Nature of planning projects; Project Life Cycle; Identification of projects</p> <p>CO2 – to understand relationship between projects and planning issues including sectoral policy at: Local, State and National levels Project appraisal</p> <p>CO3 – to learn about Project Management and Implementation, and Project Evaluation and Monitoring Project characteristics - pitfalls in management of a project; Techniques of management; Planning milestones - responsibility charts and principle responsibility</p> <p>CO4- To learn Regulatory Frameworks Governing Projects National Rehabilitation and Resettlement Policy (2007)</p>						
Mapping between COs with PSOs		PSO1	PSO2	PSO3	PSO4	PSO5	PSO6
	CO1						
	CO2						
	CO3						
	CO4						
Pre-requisite	B.Plan, B.Arch, B.E (civil), M.A./M.Sc.(Economics/Sociology/geography)						
Course Content	<p>Module 1: Project planning Introduction to Projects; Nature of planning projects; Project Life Cycle; Identification of projects</p> <p>Module 2: Project Formulation and Appraisal Relationship between projects and planning issues including sectoral policy at: Local, State and National levels Project appraisal: Market analysis – Macro environment survey, survey methods, market characterization, demand forecasting; Technical Analysis – Magnitude, processes, materials, equipment, factors of production availability, implementation schedule; suitability of the plans, layout and design, location of</p>						

	<p>the project; location analysis; supporting infrastructure requirements- Capital Budgeting – Estimation of costing of components; developing over project cost; Social cost benefit analysis – UNIDO, Merles, ZOPP/GOPP, etc</p> <p>Module 3: Project Management and Implementation, and Project Evaluation and Monitoring Project characteristics - pitfalls in management of a project; Techniques of management; Planning milestones - responsibility charts and principle responsibility, principles of activity planning; Project Implementation – methods, hurdles, facilitative factors; Project culture: line management, steering committee, role of project manager; Project Control: cost and time, quality - ISI standards and its application to Indian context; Introduction to Project Management Software (Ms Projects) and its usage. Types of evaluation - concurrent, ex-ante and ex-post. Methods of evaluation, techniques of evaluation, end results, Presentation of evaluation findings, Techniques of Monitoring of Development Works.</p> <p>Module 4: Regulatory Frameworks Governing Projects National Rehabilitation and Resettlement Policy (2007) - Social Impact mitigation; National Environmental Policy (2006) – Environmental Impact Assessment (EIA) and Environmental Management Plan (EMP)</p>
Reference Books	
Teaching Methodology	Audio Visual Presentations, Class work, Use of Softwares and tolls, Discussion, self study Seminar and /or Assignment
Evaluation Method	60% internal assessment based on class attendance, participation, assignment, seminar, presentation, internal examination, etc. 40 % external based on viva or university examination.

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Course: MURP 43: Legal issues and Professional Practice							
Course Code	MURP 43						
Course Title	Legal issues and Professional Practice						
Credit	3						
Teaching per Week	3 hr/week						
Minimum weeks per Semester	18						
Effective From	December 2020						
Purpose of Course	The Purpose of the course is to make the students understand the legislative framework in urban planning						
Course Objective	The objective of the course is to make students competent to understand legal aspects in urban planning in order to practice.						
Course Outcomes	<p>CO1 - to learn the Interface between policy and legislation pertaining to urban development</p> <p>CO2 – to understand Concepts, sources, terminologies, significance of law and its relationship to Urban Planning benefits of statutory backing for schemes - eminent domain and police powers</p> <p>CO3 – to learn about Planning Legislation and Policy Formulation and Appraisal Evolution; An over view of legal tools connected with Urban Planning and Development, Town and Country Planning Act, Improvement Trust Act, Urban Planning and Development Authorities Act</p> <p>CO4- To learn about Aims and objectives of professional Institutes, sister bodies, professional role and responsibility of planning consultants, professional ethics, code of conduct and scale of professional charges</p>						
Mapping between COs with PSOs		PSO1	PSO2	PSO3	PSO4	PSO5	PSO6
	CO1						
	CO2						
	CO3						
	CO4						
Pre-requisite	B.Plan, B.Arch, B.E (civil), M.A./M.Sc.(Economics/Sociology/geography)						
Course Content	<p>Module 1: Introduction</p> <p>Interface between policy and legislation pertaining to urban development.</p> <p>Module 2: Understanding of Law Concepts, sources, terminologies, significance of law and its relationship to Urban Planning benefits of statutory backing for schemes - eminent domain and police powers; Indian Constitution: concept and contents; 73rd and 74th Constitution Amendment Act, provision regarding property</p>						

	<p>rights.</p> <p>Module 3: Planning Legislation and Policy Formulation and Appraisal Evolution; An over view of legal tools connected with Urban Planning and Development, Town and Country Planning Act, Improvement Trust Act, Urban Planning and Development Authorities Act – objectives, contents, procedures for preparation and implementation of Regional Plans, Master Plans and Town Planning Schemes. Various Acts related to urban governance, planning and development organizations, land resources, environment protection, and public participation in statutory planning process; Approaches of formulation of policies, appraisal of policies.</p> <p>Module 4: Professional Practice Aims and objectives of professional Institutes, sister bodies, professional role and responsibility of planning consultants, professional ethics, code of conduct and scale of professional charges; Formulation of project proposal and outlines, consultancy agreements and contracts, managerial aspects; Role in inter disciplinary groups: Appreciation of the decision-making processes and the process in relation to varied consultancy assignments of planning.</p>
Reference Books	
Teaching Methodology	Audio Visual Presentations, Class work, Use of Softwares and tools, Discussion, self study Seminar and /or Assignment
Evaluation Method	60% internal assessment based on class attendance, participation, assignment, seminar, presentation, internal examination, etc. 40 % external based on viva or university examination.

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Course: MURP 24: Advanced Planning Techniques							
Course Code	MURP 24						
Course Title	Advanced Planning Techniques						
Credit	3						
Teaching per Week	3hr/week						
Minimum weeks per Semester	18						
Effective From	June2019						
Purpose of Course	The Purpose of the course is to make the student capable of implementing the concept, methods and tools planning techniques. To make student acquaint of different methods of planning techniques.						
Course Objective	The primary objective of this course is to provide understanding of the application of quantitative research methods and techniques to analysis of planning problems.						
Course Outcomes	CO1 – to train student for data collection, data processing and source of data and presentation of the same. CO2 – Explain and train Students for GIS and application of it for planning. CO3 – Train student for research design and implementation of it by using different methods i.e. questionnaire design. CO4 – to acquaint student for planning research and report writing.						
Mapping between COs with PSOs		PSO1	PSO2	PSO3	PSO4	PSO5	PSO6
	CO1						
	CO2						
	CO3						
	CO4						
Pre-requisite	B.Plan, B.Arch, B.E (civil), M.A./M.Sc.(Economics/Sociology/geography)						
Course Content	<p>Module 1: Survey Techniques Data Base for Physical surveys (including land use / building use / density / building age, etc.) and Socio-economic surveys; Questionnaire formulation, Sampling and survey techniques, etc. Land use classification / coding.</p> <p>Module 2: GIS Mapping Coordinate system, Georeferencing and geo-coding; GIS data processing (Digitization, topology building and metadata creation), Data structures and modeling, GIS analysis (Buffer, proximity and overlay), Decision making through GIS, Information systems (Land Information system, Urban Information system for various activity sectors).</p> <p>Module 3: Research Design and implementation Approaches in research, developing a method for research; Questionnaire Design, Types of data, sampling methods; developing aims, objectives, scope, limitations; and literature research – using library, accessing the Internet</p> <p>Module 4: Analytical Techniques, Presentation and Report Writing Data tabulation; Interpretation of information; Graphical presentation of data; Spatial representation of data; Types of reports with specific focus on technical report writing; Organizing</p>						

	the report, structure chapter organization, Writing the report (analytical findings); Referencing in text, use of software in referencing
Reference Books	<ol style="list-style-type: none"> 1. MARGARET ROBERTS, "Town Planning Techniques", Hutchinson Educational Publication. 2. R.G. GUPTA, "Planning and Development of Towns", New Delhi. 3. Philip R. Berke (2009)," Urban Land use Planning", University of Illinois Press. 4. Kennedy M., The Global Positioning System & GIS: An Introduction, Ann Arbor Press, 1996
Teaching Methodology	Class work, Discussion, self study Seminar and /or Assignment
Evaluation Method	60% internal assessment based on class attendance, participation, assignment, seminar, presentation, internal examination, etc. 40 % external based on viva or university examination.

Adhikari

