SEMESTER 2

MPLN 201 DEVELOPMENT PLAN STUDIO

SR. NO.	COURSE	COURSE AREA	COURSE TYPOLOGY	NAME OF THE COURSE	TEACHING SCHEME					EVALUATION			TOTAL MARKS
										STUDIO			
					L	T	S	CREDIT	TOTAL CLASS HOURS	IA 60%	EV 40%	TOTAL	
										INT	EXT		
1	MPLN 201	PL	STUDIO	DEVELOPMENT PLAN STUDIO	-	-	15	15	15	300	200	500	500

L - THEORY; S- STUDIO , T -TUTORIAL; C - CREDIT;HRS: HOURS ; MST - MIDTERM TEST , A.MST - AVERAGE OF MIDTERM , ESUE - END SEMESTER UNIVERSITY EXAMINATION; IA - INTERNAL ASSESSMENT PROGRESSIVE;,SS- FOLIO FINAL (SESSIONAL INTERNAL) , EV - EXTERNAL VIVA VOICE,RVW - INTERMEDIATE REVIEW

The first studio exercise focuses on the planning, development and design aspect (in line with the other core and elective courses offered in the semester). 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. The studio exercise enables them to develop an approach/ framework for the task; it is field based as a database is generated that is analyzed and the plan and strategies are formulated.
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. 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. Students are expected to analyze the data collected and come out with proposals and recommendations for planned development of the city. The entire exercise is also documented in the form of a technical report.
The second exercise is a short and intensive exercise of one-month duration. It pertains to topical issues i.e. property tax reforms, informal sector, development of railway land, etc. The study is based on primary surveys and students are expected to analyze the information and arrive at recommendations.

GUIDELINES

- Assignments /Tasks are to be set from the entire syllabus.
- The topic of the project is to be displayed on Institute Notice Board fifteen days or a week prior to the submission of the assignment/task.
- Question paper should be set from the entire syllabus.
- 5% weightage is given to attendance for this course.

MPLN 202 CITY AND METROPOLITIAN PLANNING

SR. NO.	COURSE	COURSE AREA	COURSE TYPOLOGY	NAME OF THE COURSE	TEACHING SCHEME					EVALUATION					TOTAL MARKS	EXAM DURATION (HRS)
										THEORY						
					L	T	S	CREDIT	TOTAL CLASS HOURS	MST 1 10%	MST 2 10%	A. MST 10%	SS 50% OR 30%	ESUE 40%		
										INT				EXT		
2	MPLN 202	PL	STUDIO	CITY AND METROPOLITAN PLANNING	3	-	-	3	3	10	10	10	50	40	100	3

L - THEORY; S- STUDIO , T -TUTORIAL; C - CREDIT;HRS: HOURS ; MST - MIDTERM TEST , A.MST - AVERAGE OF MIDTERM , ESUE - END SEMESTER UNIVERSITY EXAMINATION; IA - INTERNAL ASSESSMENT PROGRESSIVE;,SS- FOLIO FINAL (SESSIONAL INTERNAL) , EV - EXTERNAL VIVA VOICE,RVW - INTERMEDIATE REVIEW

OBJECTIVE OF THE COURSE

The course aims to study the Growth of Metro and Mega Cities and their relationship with their respective Regions; and spatial planning approaches for their Planned Development.

COURSE OUTCOME

After the completion of the course the students should be able to have:

- To understand city region linkages and problems in metro and mega cities
- The role of urban development policies problems and relate possible solutions.
- Apply knowledge derived from various case studies to solve real-time problem.

COURSE CONTENT

- 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.
- City – Region Linkages
    - City, fringe and the periphery - physical and functional linkages, peri-urban development.
- 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 environmental sustainability, quality of life, inclusivity and equity, climate change, transit oriented development, participatory planning. Inner city – issues and problems, approach to development.
- 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.

GUIDELINES

- Assignments /Tasks are to be set from the entire syllabus.
- The topic of the project is to be displayed on Institute Notice Board fifteen days or a week prior to the submission of the assignment/task.
- Question paper should be set from the entire syllabus.
- 5% weightage is given to attendance for this course.

REFERENCE READING

- The Urban pattern: City planning & design / GALLION, A B
- Design of cities / BACON, EDMUND N
- The Image of the City / LYNCH, KEVIN
- The Building of Cities: Development and Conflict / KALSER HARVEY H
- Cities in Evolution / GEDDES, P
- City Planning: Problems and Prospects / YADAV C S
- Morphology of Indian cities / TANEJA, K L
- Metropolitan planning – the planning system of Greater London / PETER, S
- Urbanization and Urban Systems in India by Ramachandran, R, Oxford University Press, New Delhi, 1998
- Indian Metropolis: Urbanization, Planning and Management by Bawa, V. K., Inter-India Publications, New Delhi, 1997
- City and Metropolitan Planning and Design, ITPI, New Delhi
- Madras 2011: A New Perspective for Metropolitan Management by MMRDA, Chennai

MPLN 203 TRANSPORT PLANNING

SR. NO.	COURSE	COURSE AREA	COURSE TYPOLOGY	NAME OF THE COURSE	TEACHING SCHEME					EVALUATION					TOTAL MARKS	EXAM DURATION (HRS)
										THEORY						
					L	T	S	CREDIT	TOTAL CLASS HOURS	MST 1 10%	MST 2 10%	A. MST 10%	SS 50% OR 30%	ESUE 40%		
										INT				EXT		
3	MPLN 203	PL	THEORY	TRANSPORT PLANNING	3	-	-	3	3	10	10	10	50	40	100	3

L - THEORY; S- STUDIO , T -TUTORIAL; C - CREDIT;HRS: HOURS ; MST - MIDTERM TEST , A.MST - AVERAGE OF MIDTERM , ESUE - END SEMESTER UNIVERSITY EXAMINATION; IA - INTERNAL ASSESSMENT PROGRESSIVE;,SS- FOLIO FINAL (SESSIONAL INTERNAL) , EV - EXTERNAL VIVA VOICE,RVW - INTERMEDIATE REVIEW

OBJECTIVE OF THE COURSE

The course in an introduction to basic principles of transport planning and the integration of transportation in land use planning. The course aims to ensure that students have a sound understanding of the key issues affecting the planning, management and financing of public transport in developed and developing countries.

COURSE OUTCOME

After the completion of the course the students should be able to:

- Characterize, describe, analyze and propose various dimensions of transportation planning.
- Relate with experience-based understanding of planning theory and practice through exposure to concepts, methodologies, field techniques and applications.
- Integrate urban transportation and the planning process within the limits and possibilities of transportation planning.

COURSE CONTENT

- Role of transport, types of transport systems, evolution of transport modes, transport problems and mobility issues.
- Understanding Sustainable Development and Sustainable Transport; Land-Use and Transport Planning – Key Relationships; Land Use Transport Integration Models.
- Urban form and Transport patterns, land use – transport cycle, concept of accessibility; Hierarchy, capacity and geometric design elements of roads and intersections.
- Transport and its Relationships with the Economy, Environment and Social Progress; Accessibility Measures, Indicators of Progress, Frameworks of Assessment, Development Control and Travel Planning
- Basic principles of Transport infrastructure design; Traffic and transportation surveys and studies, traffic and travel characteristics.
- Transportation Planning Process - Area Delineation, Zoning (TAZ); Four Stage Planning Process: Trip Generation, Trip Distribution, Trip Assignment and Modal Split
- Traffic Management- Signal design; Phasing and Time cycles; Principles of one way system design
- Pedestrianisation and non-motorised transportation- Issues, policies and case studies; Towards more inclusive cities; Comprehensive Mobility Plan
- Introduction to External Cost of Urban Transportation: Issues, Level of Service and Transport Pricing, Congestion Pricing, Policy Issues, Emission Standards and Energy Policy; National Urban Transport Policy 2006
- Pricing and Revenue in Transport- Pricing; Revenue and Forecasting; Willingness to Pay;

- Introduction to Freight Transport- differences from passenger transport; location choice of transport hubs in relation to regional distribution linkages
- Regional Transport Issues: Intercity Connectivity; Urban –Rural Linkages and Road Hierarchy; Road and Rail as Competing/Complementary Modes; Highway Standards in Indian Context;

GUIDELINES

- Assignments /Tasks are to be set from the entire syllabus.
- The topic of the project is to be displayed on Institute Notice Board fifteen days or a week prior to the submission of the assignment/task.
- Question paper should be set from the entire syllabus.
- 5% weightage is given to attendance for this course.

REFERENCE READINGS

- Traffic Engineering and Transport Planning, L.R. Kadiyali, Khanna Publications
- Transportation Engineering and Planning, Author: C. S Papacostas, P. D Prevedouros, Publisher: PHI Learning
- Principles of Urban Transport Systems Planning, B.G. Hutchinson, McGraw Hill
- Urban Transport: Planning and Management, A K Jain, APH Publishing
- Modelling Transport (2011), Juan De Dios Ortuzar, Luis G. Willumsen, Publisher: John Wiley & Sons
- Integrated Land Use and Transport Modelling, Author: Tomas De La Barra, Publisher: Cambridge University Press.
- Location, Transport and Land-Use: Modelling Spatial-Temporal Information, by Yupo Chan, Publisher: Springer
- The Economics of Transport: A Theoretical and Applied Perspective, Jonathan Cowie, Routledge
- Transportation Engineering and Planning, C. S Papacostas, P. D Prevedouros PHI Learning
- Transportation Engineering: An Introduction, C. Jotin Khisty, B. Kent Lall Phi Learning
- Public Transportation Improvement, Semiat Idris, Lambert Academic Publishing
- The Economics of Transport: A Theoretical and Applied Perspective, Jonathan Cowie, Routledge
- Integrated Land Use and Transport Modelling, Author: Tomas De La Barra, Publisher: Cambridge University Press.

MPLN 204 ADVANCED PLANNING TECHNIQUES

SR. NO.	COURSE	COURSE AREA	COURSE TYPOLOGY	NAME OF THE COURSE	TEACHING SCHEME					EVALUATION					TOTAL MARKS	EXAM DURATION (HRS)
										THEORY						
					L	T	S	CREDIT	TOTAL CLASS HOURS	MST 1 10%	MST 2 10%	A. MST 10%	SS 50% OR 30%	ESUE 40%		
										INT				EXT		
4	MPLN 204	PL	THEORY	ADVANCED PLANNING TECHNIQUES	3	-	-	3	3	10	10	10	50	40	100	3

L - THEORY; S- STUDIO , T -TUTORIAL; C - CREDIT;HRS: HOURS ; MST - MIDTERM TEST , A.MST - AVERAGE OF MIDTERM , ESUE - END SEMESTER UNIVERSITY EXAMINATION; IA - INTERNAL ASSESSMENT PROGRESSIVE;,SS- FOLIO FINAL (SESSIONAL INTERNAL) , EV - EXTERNAL VIVA VOICE,RVW - INTERMEDIATE REVIEW

OBJECTIVE OF THE COURSE

The course aims to introduce concepts of quantitative methods of analysis at an introductory level. The emphasis is on enhancing the knowledge of planning techniques in the field of statistics, analytic techniques and report writing.

COURSE OUTCOME

After the completion of the course the students should be able to have:

- In depth knowledge about planning techniques and assessment methods.
- Ability to develop research question worthy of informing public policy, and identify the statistical tool appropriate for answering the research question.

COURSE CONTENT

- Statistics
    - Statistical data and method of analysis Types of Data. Designing a questionnaire, Tabulation and representation of data: Line diagram, Pie diagram, Frequency distribution, Histogram, Radar diagram.
    - Significance of Averaging and Variation. Calculation of Mean Median and Mode for Ungrouped and Grouped data. Merits and limitations. Variance and standard deviation of Ungrouped and Grouped data, Lorenz Curve, Skewness, Moments and Kurtosis
    - Significance of study of Correlation. Types of Correlation, Karl Pearson's Coefficient of Correlation, Properties of Correlation Coefficient, Rank Correlation. Partial and Multiple Correlation
    - Introduction and difference between Correlation and Regression analysis. Linear Bivariate Regression model, Coefficient of Regression and its properties, Computation of Regression equation, Multiple Regression analysis and application.
    - Requirement and methods of forecasting system. Types of time series data. Method of Trend analysis: Semi-average, Moving-average and method of Least Square. Analysis and measurement of Seasonal and Cyclical variations, Introduction to Non-linear Trends
    - Linear programming and its application in Planning, Graphical method and Simplex Method
    - Population Pyramid: Types and Properties, Human Sex Ratio, Dependency Ratio, Components of Population Growth: Birth and Mortality Rate, Age composition, Migration, Population forecasting method using statistical theories.

- 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.
- Analytical Techniques, Presentation and Report Writing
    - Data tabulation and interpretation
    - Graphical presentation of data and spatial representation of data.
    - Types of reports with specific focus on technical report writing.
    - Organizing the report, structure chapter organization, writing the report (analytical findings).
    - Referencing in text, use of software in referencing.

GUIDELINES

- Assignments /Tasks are to be set from the entire syllabus.
- The topic of the project is to be displayed on Institute Notice Board fifteen days or a week prior to the submission of the assignment/task.
- Question paper should be set from the entire syllabus.
- 5% weightage is given to attendance for this course.

REFERENCE READINGS

- Urban Planning: use of critical path Method / WORD, SOL A.
- Operation research : an introduction / TAHA, H H
- Principles of Operations Research, Harvey M Wagner, Prentice-Hall
- Operations Research – Principles and Application, G Srivastava, PHI Prentice-Hall
- Operations Research, Hamdy A Taha, MacMillan

MPLN 205 URBAN HERITAGE CONSERVATION

SR. NO.	COURSE	COURSE AREA	COURSE TYPOLOGY	NAME OF THE COURSE	TEACHING SCHEME					EVALUATION					TOTAL MARKS	EXAM DURATION (HRS)
										THEORY						
					L	T	S	CREDIT	TOTAL CLASS HOURS	MST 1 10%	MST 2 10%	A. MST 10%	SS 50% OR 30%	ESUE 40%		
										INT				EXT		
5	MPLN 205	AR	THEORY	URBAN HERITAGE CONSERVATION	3	-	-	3	3	10	10	10	50	40	100	3

L - THEORY; S- STUDIO , T -TUTORIAL; C - CREDIT;HRS: HOURS ; MST - MIDTERM TEST , A.MST - AVERAGE OF MIDTERM , ESUE - END SEMESTER UNIVERSITY EXAMINATION; IA - INTERNAL ASSESSMENT PROGRESSIVE;,SS- FOLIO FINAL (SESSIONAL INTERNAL) , EV - EXTERNAL VIVA VOICE,RVW - INTERMEDIATE REVIEW

OBJECTIVE OF THE COURSE

The aim of the course is to develop knowledge about the growth of historic preservation, techniques of preservation, agencies and legislation involved in the process, values and objectives of preservation. Also to emphasize on the use of historic preservation planning as a strategy for community revitalization.

COURSE OUTCOME

After the completion of the course the students should be able to have:

- Ability to identify the legal and legislative framework of historic preservation on the local, state and federal levels.
- Knowledge about how historic preservation is integrated into land use and comprehensive planning.
- Knowledge about the role historic preservation plays in economic development and revitalization.

COURSE CONTENT

- Typology / classification, inventories, mapping.
- Human habitation in historical context.
- Heritage as a motivating force in sustainable urban conservation and development.
- 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.
- 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.
- 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.

GUIDELINES

- Assignments /Tasks are to be set from the entire syllabus.
- The topic of the project is to be displayed on Institute Notice Board fifteen days or a week prior to the submission of the assignment/task.
- Question paper should be set from the entire syllabus.
- 5% weightage is given to attendance for this course.

REFERENCE READING

- Conservation & Planning / ALAN, DOBBY
- Compendium in town renewal and urban planning Gehl, J. Gemzoe, L. 1996
- Urban regeneration in Europe
- Designing high-density cities, edited by Edward Ng. Earthscan
- JNURM, Govt of India

MPLN 206 ELECTIVE COURSES

SR. NO.	COURSE	COURSE AREA	COURSE TYPOLOGY	NAME OF THE COURSE	TEACHING SCHEME					EVALUATION					TOTAL MARKS	EXAM DURATION (HRS)
										THEORY						
					L	T	S	CREDIT	TOTAL CLASS HOURS	MST 1 10%	MST 2 10%	A. MST 10%	SS 50% OR 30%	ESUE 40%		
										INT				EXT		
6	MPLN 206	PL	THEORY	ELECTIVE: INCLUSIVE URBAN PLANNING/ PLANNING FOR TOURISM	3	-	-	3	3	10	10	10	50	40	100	3

L - THEORY; S- STUDIO , T -TUTORIAL; C - CREDIT;HRS: HOURS ; MST - MIDTERM TEST , A.MST - AVERAGE OF MIDTERM , ESUE - END SEMESTER UNIVERSITY EXAMINATION; IA - INTERNAL ASSESSMENT PROGRESSIVE;,SS- FOLIO FINAL (SESSIONAL INTERNAL) , EV - EXTERNAL VIVA VOICE,RVW - INTERMEDIATE REVIEW

INCLUSIVE URBAN PLANNING

OBJECTIVE OF THE COURSE

The course aims at understanding participatory planning process, policies and programmes. Focus is on how inclusive concepts have been adopted and implemented in India and the world.

COURSE OUTCOME

After the completion of the course the students should be able to have:

- Knowledge about the importance of inclusiveness in urban planning
- Ability to incorporate the concepts at different stages during the planning process.

COURSE CONTENT

- Understanding Inclusive Planning
  - Definitions and components
- 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
- 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.
- Planning interventions
  - Inclusive zoning, development and building regulations, Slum Improvement.
- Case Studies

GUIDELINES

- Assignments /Tasks are to be set from the entire syllabus.
- The topic of the project is to be displayed on Institute Notice Board fifteen days or a week prior to the submission of the assignment/task.
- Question paper should be set from the entire syllabus.

- 5% weightage is given to attendance for this course.

REFERENCE READINGS

- Fifty eight national town and country planners congress: inclusive planning for empowering urban poor by Institute of Town Planners, India
- Inclusive growth in India by Anil Kumar Thakur, Ram Uddeshya Singh.
- Inclusive growth in globalised India: challenges and options by Gandhi, P. Jegadish Ed.
- Inclusive urban development in India by Singh, Awadhesh Kumar
- Inclusiveness in India : a strategy for growth and equality by Hirashima, Shigemochi & others Eds
- Inclusive urban planning state of the urban poor report 2013 by India, Ministry of housing and urban poverty alleviation
- Economics of development : toward inclusive growth by Naqvi, Syed Nawab Haider
- Best practice guidence for biodiversity-inclusive impact assessment : a manual for practitioners and reviewers in South Asia by Rajvanshi, Asha & others
- Creating vibrant public - private - panchayat partnership (PPPP) for inclusive growth through inclusive governance by Singh, Harsh

PLANNING FOR TOURISM

OBJECTIVE OF THE COURSE

The aim of the course is to introduce the principles of planning for tourism in various tourism contexts and developing appropriate planning strategies and tools.

COURSE OUTCOME

After the completion of the course the students should be able to have:

- Ability to incorporate the concepts of tourism planning while making development plans.
- Knowledge of the various policies, programmes and schemes in India for tourism planning.

COURSE CONTENT

- Introduction to Tourism
    - Definitions, scope, nature, classification and dimension, tourism as an industry, tourism in developed and developing world.
    - Planning for Leisure and Tourism - Key Determinant; Characteristics of Tourism Sectors; Differences Between Leisure and Business Tourism
- Types of Tourism
    - Cultural Tourism, Eco-Tourism, Heritage Tourism, Adventure Tourism, Religious Tourism, Leisure Destination Tourism; Characteristics of Each and Planning Implications
- Tourism Sector – impacts
    - Social Factors Shaping Leisure; International Tourism Trends; Factors and Impact on National Tourism Markets
    - 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.
- 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.
  - Regional Context of Tourism Locations, Circuit Identification and Destination Planning
  - Tourism Infrastructure- Definition and Classification; Tourism as a Burden on Local Infrastructure
  - Community planning and tourism.
  - Implementation and management, role of travel and tourism promoting agencies, monitoring the tourism development.
  - Tourism and Economy- Impact on Livelihoods and Local Communities
  - Tourism Plans- Components, Time Frame, Actors, Cost and Revenue, Etc
  - Tourism marketing - concept, techniques and strategies.
- Policies and Programmes
  - National Policies Affecting Tourist Inflow, Role of Multiple Government Authorities and Agencies Involved in Tourism Development; Private Players in Tourism Development.

GUIDELINES

- Assignments /Tasks are to be set from the entire syllabus.
- The topic of the project is to be displayed on Institute Notice Board fifteen days or a week prior to the submission of the assignment/task.
- Question paper should be set from the entire syllabus.
- 5% weightage is given to attendance for this course.

REFERENCE READINGS

- Tourism Planning: Basics, Concepts, Cases, Clare A. Gunn
- Contemporary Issues in Tourism Development, D.G. Pearce, ed, Routledge
- Cultural Tourism and Sustainable Development, L.F. Girard ed.
- Event Tourism: Critical Concept in Tourism
- Sustainable Tourism Management, John Swarbook
- Tourism and Poverty Reduction: Pathways to Prosperity, J Mitchell
- Tourism and the Less Developed World: Issues and Case Studies, David Harrison
- Tourism Infrastructure Development: Sustainable Approach, Manoj Sharma