

PEOPLE'S UNIVERSITY, BHOPAL***(Applicable for Admitted from Academic Session 2019-20 onwards)***

Programme: Master of Technology

Specialization: Urban Planning

Semester –II

| Subject Code | Subject Title | Credit | | | Theory | | | Practical | | |
|--------------|--------------------|--------|---|---|---------------|---------------|-------------------------------------|----------------|----------------|-------------|
| | | L | T | P | External (70) | Internal (30) | Total (100) Min: 40 (D Grade) | External (Nil) | Internal (Nil) | Total (Nil) |
| MTUP12101 | Project Management | 3 | 1 | - | | | | | | |

Duration of Theory (Externals): 3 Hours

| | | |
|--|--|--|
| Theory Internal- Max Marks: 30 | Best of Two Mid Semester Test - Max Marks: 15 | Assignment/Quiz/Attendance - Max. Marks: 15 |
| Practical Internal Max Marks: Nil | Lab work & Sessional - Max Marks: Nil | Assignment/Quiz/Attendance- Max. Marks: Nil |

| | |
|-----------------------|---|
| Pre-Requisite | Nil |
| Course Outcome | <ol style="list-style-type: none"> 1. Student should able to know various apex bodies in the country planning, programming. 2. Student should able to know planning and development administration at national. 3. Student should able to know governance in relation to planning process. |

| Unit | Contents (Theory) | Marks Weightage |
|------|--|-----------------|
| I | Professional Practice: Aims and objects of the professional institute, Sister bodies, Role of professionals and planning consultants, Code and conducts of professional ethics and scale of professional charges as laid down by the various apex bodies in the country, Planning, application of PERT and CPM, O- error method and such other systems evaluated for the same, Executing consultancy agreements awarding contracts, Inviting tenders, Management aspect, Role in inter-disciplinary groups, Appreciation of the decision making process and the process in relation to varied consultancy agreements / assignments in planning. | 14 |
| II | Planning Administration: System of local self govt. in India, Planning related acts in Madhya Pradesh state and its governance in relation to planning process, Planning and development administration at national level, State level and district level and local level of the country, Functions and powers, Structure and funding resources to the local government and their performance. | 14 |
| III | Identification of Other Non-Government Development Doing Organizations and Their Relationship with local Governments: System of local self govt. in India, Planning related acts in Madhya Pradesh state and its governance in relation to planning process, Process of decision making in the process, Further implementation and execution and management process. | 14 |
| IV | Public Relation And Their Effective Participation In Planning And Implementation process: Citizens approach to the planning process and their effective participation in the process, Personnel management, Manpower planning, Performance appraisal, Motivation, monitoring and improvement in moral etc, Organizational behavior, Organization theory, Authority and conflict, leadership in administration, Organizational changes, Organizational structure and plan implementation agencies. | 14 |
| V | Project Formulation: Introduction to the plan preparation life cycle of the project, Project identification, Importance of the projects implementation timely, Quick formulation of the project and its appraisal, Important role of PPM method i.e. planning, Programming and its effective management for implementation and execution, Costs saving etc, Effective decision making by the physical planners in the process for the benefit of the public at large. Project Evaluation : Stages in oproject evaluation methods of project evaluation cost-benefit analysis net present value criterion (NPV) internal rate of return (IRR) relation between NPV and IRR | 14 |

PEOPLE'S UNIVERSITY, BHOPAL

(Applicable for Admitted from Academic Session 2019-20 onwards)

Programme: **Master of Technology**

Specialization: Urban Planning

Semester –II

Text Book/References Books/ Websites:-

1. Dr. A. N. Sachithanandan, Reading Material on Project Formulation & Appraisal, Institute of Town Planners, India, New Delhi.
2. M. L. Jhingan, The Economics of Development & Planning, Vrinda publications Pvt. Ltd. India .

Suggested List of Laboratory Experiments :- (Expandable): Nil

Approved from Academic Council

PEOPLE'S UNIVERSITY, BHOPAL***(Applicable for Admitted from Academic Session 2019-20 onwards)***Programme: **Master of Technology****Specialization: Urban Planning****Semester –II**

| Subject Code | Subject Title | Credit | | | Theory | | | Practical | | |
|--------------|-----------------------------------|--------|---|---|---------------|---------------|-------------------------------------|----------------|----------------|-------------|
| | | L | T | P | External (70) | Internal (30) | Total (100) Min: 40 (D Grade) | External (Nil) | Internal (Nil) | Total (Nil) |
| MTUP12102 | Socio-economic Basis for Planning | 3 | 1 | - | | | | | | |

Duration of Theory (Externals): 3 Hours

| | | |
|--|--|--|
| Theory Internal- Max Marks: 30 | Best of Two Mid Semester Test - Max Marks: 15 | Assignment/Quiz/Attendance - Max. Marks: 15 |
| Practical Internal Max Marks: Nil | Lab work & Sessional - Max Marks: Nil | Assignment/Quiz/Attendance- Max. Marks: Nil |

| | |
|-----------------------|---|
| Pre-Requisite | Nil |
| Course Outcome | 1. Student should able to know traditional patterns and trends of change in Indian society. |
| | 2. Student should able to know social aspects of housing. |
| | 3. Student should able to know economic resource, typology of goods, production economics. |

| Unit | Contents (Theory) | Marks Weightage |
|------|---|-----------------|
| I | Man and environment, Traditional patterns and trends of change in Indian society, Concept of social structure, Culture and social institutions. | 14 |
| II | Relation between social structure and spatial structure, Social aspects of housing, Social problems of slums. | 14 |
| III | Economic resource, Typology of goods, Production economics, Process, laws, Product and Costs, Economies of scale, External economies, Valuation, Typology of markets, land and real estate market, Macro-economic concepts. | 14 |
| IV | Basic economic analysis, Economic principles, and land use, Economic rent, land use pattern and land values. | 14 |
| V | Development of land and real property, Financial balance sheet of land development, Land and real property markets, Private ownership and social control over land. | 14 |

Text Book/References Books/ Websites:-

1. NAILY ; Social Theory for Planning ; McGrew Hill Publisher.
2. Agarwal; Economic Planning; New Age Publisher.
3. S.C. Patnaik; Economics of Regional Development & Planning in Third World Countries; New Delhi : Associated Pub. House, c1981.

Suggested List of Laboratory Experiments :- (Expandable): Nil

PEOPLE'S UNIVERSITY, BHOPAL***(Applicable for Admitted from Academic Session 2019-20 onwards)***Programme: **Master of Technology****Specialization: Urban Planning****Semester –II**

| Subject Code | Subject Title | Credit | | | Theory | | | Practical | | |
|--------------|------------------------------|--------|---|---|---------------|---------------|-------------------------------------|----------------|----------------|-------------|
| | | L | T | P | External (70) | Internal (30) | Total (100) Min: 40 (D Grade) | External (Nil) | Internal (Nil) | Total (Nil) |
| MTUP12103 | City & Metropolitan Planning | 3 | 1 | - | | | | | | |

Duration of Theory (Externals): 3 Hours

| | | |
|--|--|--|
| Theory Internal- Max Marks: 30 | Best of Two Mid Semester Test - Max Marks: 15 | Assignment/Quiz/Attendance - Max. Marks: 15 |
| Practical Internal Max Marks: Nil | Lab work & Sessional - Max Marks: Nil | Assignment/Quiz/Attendance- Max. Marks: Nil |

| | |
|-----------------------|---|
| Pre-Requisite | Nil |
| Course Outcome | 1. Student should able to know growth of metropolitan and mega cities. 2. Student should able to know - human settlement planning and urban development. 3. Student should able to know socio-economic and political issues in India. |

| Unit | Contents (Theory) | Marks Weightage |
|------|---|-----------------|
| I | Urban Growth: System of cities, Growth of metropolitan and mega cities scale, Complexity and its impact on national development. | 14 |
| II | National and International Concepts: Human settlement planning and urban development, Relevance to Indian context. | 14 |
| III | Metropolitan growth: Trends, Characteristics, Problems, Socio-economic and political issues in India with reference to Asia. | 14 |
| IV | Changing Urbanity: Urbanity between a city and a metropolis, Anatomy, Growth and trends of metropolitan development, Components of metropolitan plan, Economics, Transportation, etc. in evolving metropolitan framework. | 14 |
| V | Metropolitan Region: Problems of major agglomerations, Studies in conjunction with the theories of major cities, Dynapolis and Megalopolis, Special problems of the central area, Migration and sub-urban development, Emerging social and economic characteristics of the central city and the suburbs, Impact on government systems and public services. | 14 |

Text Book/References Books/ Websites:-

1. A.B.Gallion; The Urban pattern: City planning & design; CBS Publication.
2. Bacon, N.Edmund; Design of cities; Penjuin USA Publisher.
3. Lynch, Kevin; The Image of the City; MIT Press.
4. Kalsner H.Harvey; The Building of Cities: Development and Conflict; Cornell University Press.
5. Peter; Metropolitan planning – the planning system of Greater London; Routledge Publisher.

Suggested List of Laboratory Experiments :- (Expandable): Nil

PEOPLE'S UNIVERSITY, BHOPAL***(Applicable for Admitted from Academic Session 2019-20 onwards)***Programme: **Master of Technology****Specialization: Urban Planning****Semester –II**

| Subject Code | Subject Title | Credit | | | Theory | | | Practical | | |
|--------------|----------------------------|--------|---|---|---------------|---------------|-------------------------------------|----------------|----------------|-------------|
| | | L | T | P | External (70) | Internal (30) | Total (100) Min: 40 (D Grade) | External (Nil) | Internal (Nil) | Total (Nil) |
| MTUP1202 | City and Regional Planning | 3 | 1 | - | | | | | | |

Duration of Theory (Externals): 3 Hours

| | | |
|--|--|--|
| Theory Internal- Max Marks: 30 | Best of Two Mid Semester Test - Max Marks: 15 | Assignment/Quiz/Attendance - Max. Marks: 15 |
| Practical Internal Max Marks: Nil | Lab work & Sessional - Max Marks: Nil | Assignment/Quiz/Attendance- Max. Marks: Nil |

| Pre-Requisite | Nil |
|----------------|--|
| Course Outcome | <ol style="list-style-type: none"> 1. Student should able to know understanding the city as an organism, the socio-political. 2. Student should able to know definition and process of urbanizations, urban- rural relationship. 3. Student should able to know aims, objectives, relevance and scope of regional planning. |

| Unit | Contents (Theory) | Marks Weightage |
|------|--|-----------------|
| I | Understanding the city as an organism, The socio-political and technological forces and their consequences on human settlements and their planning, Inner city issues and problems, approach to development, Urban development and renewal. | 14 |
| II | Definition and process of Urbanizations, Urban- Rural Relationship, Hierarchy of cities-urban growth and system of cities, Growth of metropolitan cities and mega cities and its impact on natural development, With focus on the issues in metropolitan management and governance and possible alternative strategies to metropolitan growth control – development of new towns, Small and medium town development. | 14 |
| III | Aims, Objectives, Relevance and scope of regional planning, Concept and classification of regions, Characteristics of a planning region, Delineation of regions, Regional development plans, Planning process and implementation, Methods and techniques of regional analysis and development planning. | 14 |
| IV | Theories of spatial structure, Regional imbalances and growth models, Regional analysis techniques, Central place theory, Agricultural land use model, Weber's theory of location, Rank size rule, Input Output analysis, Growth pole model, Misra's growth foci approach, Core periphery model, Cumulative causation theory. | 14 |
| V | Regional planning in India, Evolution of regional planning, Institutional framework from national planning level to regional development plans, Relevant policies and programmes, Regional disparities, Their causes and alleviation measures, Integrated rural- urban development case studies from other developing and developed nations. | 14 |

Text Book/References Books/ Websites:-

1. Bhatt Caste, 1975; Class and Politics; Manohar Book Sevice, Delhi.
2. AEJ Morris; History of Urban Form from Pre-history to Renaissance; Routledge, London.
3. Aidan Southall ;The City Time and Space; Cambridge University Press.

Suggested List of Laboratory Experiments :- (Expandable): Nil

PEOPLE'S UNIVERSITY, BHOPAL***(Applicable for Admitted from Academic Session 2019-20 onwards)***Programme: **Master of Technology****Specialization:** Urban Planning**Semester –II**

| Subject Code | Subject Title | Credit | | | Theory | | | Practical | | |
|--------------|-------------------------------|--------|---|---|---------------|---------------|-------------------------------------|----------------|----------------|-------------|
| | | L | T | P | External (70) | Internal (30) | Total (100) Min: 40 (D Grade) | External (Nil) | Internal (Nil) | Total (Nil) |
| MTUP1203 | Land Economics and Management | 3 | 1 | - | | | | | | |

Duration of Theory (Externals): 3 Hours

| | | |
|--|--|--|
| Theory Internal- Max Marks: 30 | Best of Two Mid Semester Test - Max Marks: 15 | Assignment/Quiz/Attendance - Max. Marks: 15 |
| Practical Internal Max Marks: Nil | Lab work & Sessional - Max Marks: Nil | Assignment/Quiz/Attendance- Max. Marks: Nil |

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|-----------------------|---|
| Pre-Requisite | Nil |
| Course Outcome | 1. Student should able to know economics, positive & negative economics, classical. |
| | 2. Student should able to know value of commodity, perfect market conditions. |
| | 3. Student should able to know theory by von thunen, alonso's bid rent function theory. |

| Unit | Contents (Theory) | Marks Weightage |
|------|--|-----------------|
| I | Introduction: Types of economics, Classical & Non-classical economics, Macro & micro economics, etc, Economics & planning, Land Economics, Urban economics, Regional Economics, etc. Economic development & economic growth, Measurements of economic development, Gross national product, Gross national product per capita, Welfare, Social Indicators, etc. | 14 |
| II | Land Economics: Value of commodity, Perfect market conditions, etc. Land characteristics, Immobility, Divisibility, Modification, Non-standardised commodity, etc. Attributes of land, Location, Area, Configuration, Permissibility, Restriction, etc. Effect of govt. Policies & taxation on land as resource, etc. | 14 |
| III | Land Uses and Land Values: Determination of price of land, Ricardian theory of the land market, Agricultural land rent theory by von thunen, Alonso's Bid Rent Function theory, etc. determination of location of land Uses, Types of land uses, Factors determining land Uses, Locational choices, Pattern of land use, Invasion & succession, etc. approaches to industrial location theory, Least cost approach, Market area analysis, Profit maximization approach etc. | 14 |
| IV | Nature of Indian Economy: Stages of development, Undeveloped, Underdeveloped, Developed etc, Different criteria of underdeveloped, Poverty, Ignorance, Diseases, Mal-distribution of national income, Administrative incompetence, Social disorganization, etc. Characteristics of underdevelopment country, Poverty, Dualistic economy, Unemployment & disguised unemployment, Backwardness, etc. Obstacle to economic development, Vicious circles of poverty, Market imperfection etc. | 14 |
| V | Approaches to Valuation: Cost approach – Land and building method and reinstatement, Replacement method, Market approach, Direct comparison, Hypothetical development (layout / building) method, Belting method, Investment or income capitalization approach, Benefit approach (Valuation of Infrastructure Projects), Valuation of properties for various purposes, Sale, Lease, Mortgage, Municipal taxation, Direct taxes, Insurance, Assessment of compensation for land acquisition including severance, Injuries affection, loss of business etc. Compensation, Betterment problem in relation to Planning. | 14 |

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Text Book/References Books/ Websites:-

1. S. K. Misra & V. K. Puri ,Indian Economy, Himalaya Publishing House, Delhi.
2. M. L. Jhingan, The Economics of Development & Planning, Virendra Publication (P) Ltd.
3. V.V. Subrahmanyam and R.L. Bawa ,Urban Economic Development in India,Vedam Books Pvt. Ltd, New Delhi.
4. Roshan Namavati, Principles & Practice of Valuation, Virendra Publication (P) Ltd.

Suggested List of Laboratory Experiments :- (Expandable): Nil

Approved from Academic Council

PEOPLE'S UNIVERSITY, BHOPAL***(Applicable for Admitted from Academic Session 2019-20 onwards)***Programme: **Master of Technology****Specialization: Urban Planning****Semester –II**

| Subject Code | Subject Title | Credit | | | Theory | | | Practical | | |
|--------------|---------------------------------------|--------|---|---|---------------|---------------|-------------------------------------|----------------|----------------|-------------|
| | | L | T | P | External (70) | Internal (30) | Total (100) Min: 40 (D Grade) | External (Nil) | Internal (Nil) | Total (Nil) |
| MTUP1204 | Environmental planning and management | 3 | 1 | - | | | | | | |

Duration of Theory (Externals): 3 Hours

| | | |
|--|--|--|
| Theory Internal- Max Marks: 30 | Best of Two Mid Semester Test - Max Marks: 15 | Assignment/Quiz/Attendance - Max. Marks: 15 |
| Practical Internal Max Marks: Nil | Lab work & Sessional - Max Marks: Nil | Assignment/Quiz/Attendance- Max. Marks: Nil |

| | |
|-----------------------|--|
| Pre-Requisite | Nil |
| Course Outcome | <ol style="list-style-type: none"> 1. Student should able to know environment, ecology, man-environment relationship. 2. Student should able to know global issues (1) global warming (2) ozone depletion. 3. Student should able to know air & noise pollution; definition, terminology. |

| Unit | Contents (Theory) | Marks Weightage |
|------|---|-----------------|
| I | Introduction to environment, Ecology, Man-environment relationship, Scope and necessity of environmental management in town planning, Interaction with man, Systems approach to environmental management, Factors of environment-physical, Social, Aesthetic, Economic and technological environment, Impact of advanced agricultural methods urbanization & industrialization on nature, Ecological balance and ecological degradation in urban areas. | 14 |
| II | Environmental Issue, Global issues, Global warming, Ozone depletion, Biodiversity, International agreements and protocols related to these issues. | 14 |
| III | Air & Noise Pollution: Definition, Terminology, Air pollutants effects of air pollution on plants, Animals and property, traffic planning as control of noise & air pollution air (prevention & control) pollution control 1981. | 14 |
| IV | Introduction to land use planning, principles, Strategies and land use planning , Framework for LUP, Need for LUP, land use control, Natural resource base, Zoning regulations, land use planning process, The relationships between economic development and environmental protection, Open space and farmland preservation, Brown field redevelopment, Tran boundary environmental issues, and environmental justice, Natural features protection engineering fundamentals, Presentation, Discussion on how the development of land is regulated, How natural features are protected including, Storm water management, Woodland, Wetland, Floodplain protection and landscaping, Engineering fundamentals. | 14 |
| V | Engineering geological investigation and interpretation of data for the need of city planning, Designing and construction, Terrain evaluation, Use of engineering geological maps, Environmental concerns in town planning - traffic, Garbage, Sewage, Water supply, Residential, Industrial and commercial zones, etc. Environmentally compatible regional development, Environmental impact assessment and its importance in planning. | 14 |

Text Book/References Books/ Websites:-

1. Pramod Singh; Ecology of Urban India; Ashish Publishing House.
2. M. Lakshmi Narasaiah; Man and Environment; Discovery Publishing House, 2004, New Delhi
3. Agarwal, Sunita Narain and Shrabani Sen; State of India's Environment, citizens fifth Report.

Suggested List of Laboratory Experiments :- (Expandable): Nil

PEOPLE'S UNIVERSITY, BHOPAL***(Applicable for Admitted from Academic Session 2019-20 onwards)***Programme: **Master of Technology****Specialization: Urban Planning****Semester –II**

| Subject Code | Subject Title | Credit | | | Theory | | | Practical | | |
|--------------|--|--------|---|---|---------------|---------------|-------------------------------------|----------------|----------------|-------------|
| | | L | T | P | External (70) | Internal (30) | Total (100) Min: 40 (D Grade) | External (Nil) | Internal (Nil) | Total (Nil) |
| MTUP1205 | Urban Regeneration & Conservation Techniques | 3 | 1 | - | | | | | | |

Duration of Theory (Externals): 3 Hours

| | | |
|--|--|--|
| Theory Internal- Max Marks: 30 | Best of Two Mid Semester Test - Max Marks: 15 | Assignment/Quiz/Attendance - Max. Marks: 15 |
| Practical Internal Max Marks: Nil | Lab work & Sessional - Max Marks: Nil | Assignment/Quiz/Attendance- Max. Marks: Nil |

| | |
|-----------------------|---|
| Pre-Requisite | Nil |
| Course Outcome | <ol style="list-style-type: none"> 1. Student should able to know quality of historic cities and areas: problems and issues. 2. Student should able to know planning procedures: inspection and surveys, investigation. 3. Student should able to know implementation of plans and urban management. |

| Unit | Contents (Theory) | Marks Weightage |
|------|---|-----------------|
| I | Quality of Historic Cities and Areas: Problems and issues, Cultural resource management, Integrated urban conservation, Principles, International charters, Guidelines and standards for conservation of historic monuments, Sites and heritage zones, Aesthetic and social dimensions, Economic, legal and tourism aspects. | 14 |
| II | Planning Procedures: Inspection and surveys, Investigation techniques, Methods for inventories and documentation, Identification and reporting on heritage zones, Programs for adaptive reuse, Restoration, Rehabilitation and Infill or New constructions. | 14 |
| III | Implementation of Plans and Urban Management: Phasing, Resource mobilization, Incentives, Acts and legal tools, People's awareness and participation, Role of various action groups, Concept of urban redevelopment, Urban Renewal, Urban reconstruction, Urban rejuvenation. | 14 |
| IV | Symptoms and pre-conditions that warrant the need for regeneration of cities, Economic, Social and physical environmental aspects, Perception of urban regeneration in the context of evolution of selected urban centers of the West and the East. | 14 |
| V | National urbanization policy, Goals and objectives of urban regeneration of Indian cities, Process to evolve a feasible set of goals and objectives for urban regeneration. | 14 |

Text Book/References Books/ Websites:-

1. Alan Dobby; Conservation & Planning; Hutchinson Educational.
2. Lance Craighead; Conservation Planning Shaping the future; ESRI.
3. Milwaukee; Conservation, Redevelopment, Organization, Strategy; Milwaukee Publisher the department 1964.
4. Folli, Maria Grazia; Sustainable Conservation and Urban Regeneration; Springer International Publishing.

Suggested List of Laboratory Experiments :- (Expandable): Nil

PEOPLE'S UNIVERSITY, BHOPAL***(Applicable for Admitted from Academic Session 2019-20 onwards)***

Programme: Master of Technology

Specialization: Urban Planning

Semester –II

| Subject Code | Subject Title | Credit | | | Theory | | | Practical | | |
|--------------|--------------------|--------|---|---|----------------|----------------|-------------|---------------|---------------|------------------------------------|
| | | L | T | P | External (Nil) | Internal (Nil) | Total (Nil) | External (70) | Internal (30) | Total (100) Min:40 (D Grade) |
| MTUP1206 | Planning Studio-II | - | - | 2 | | | | | | |

Duration of Theory (Externals): Nil

| | | |
|---|---|---|
| Theory Internal- Max Marks: Nil | Best of Two Mid Semester Test - Max Marks: Nil | Assignment/Quiz/Attendance - Max. Marks: Nil |
| Practical Internal Max Marks: 30 | Lab work & Sessional - Max Marks: 15 | Assignment/Quiz/Attendance- Max. Marks: 15 |

| Pre-Requisite | Nil |
|----------------|---|
| Course Outcome | <ol style="list-style-type: none"> To understand the basic knowledge of preparation of a development plan for a town or city including surveys. To be able to understand the use of town planning schemes including costing & phasing. To get to know about the use of analysis, costing, phasing and methodology of implementation. |

| Unit | Contents (Theory) | Marks Weightage |
|------|--|-----------------|
| I | Preparation of a development plan for a town or city including surveys, Analysis, Costing, Phasing and methodology of implementation, Town planning schemes including costing & phasing as part of development proposal for extended area of case study, Improvement of traffic junctions for urban landscape including costing and phasing, Conservation and preservation of old core as a port of development proposal for old core in case study. | 100 |

Text Book/References Books/ Websites: Nil

Suggested List of Laboratory Experiments:-

Student should prepare a detailed layout report or case study as per the topic assigned by subject faculty.

PEOPLE'S UNIVERSITY, BHOPAL***(Applicable for Admitted from Academic Session 2019-20 onwards)***Programme: **Master of Technology****Specialization:** Urban Planning**Semester –II**

| Subject Code | Subject Title | Credit | | | Theory | | | Practical | | |
|--------------|-----------------------------|--------|---|---|----------------|----------------|-------------|---------------|---------------|------------------------------------|
| | | L | T | P | External (Nil) | Internal (Nil) | Total (Nil) | External (70) | Internal (30) | Total (100) Min:40 (D Grade) |
| MTUP1207 | Planning Studio Seminar- II | - | - | 2 | | | | | | |

Duration of Theory (Externals): Nil

| | | |
|---|---|---|
| Theory Internal- Max Marks: Nil | Best of Two Mid Semester Test - Max Marks: Nil | Assignment/Quiz/Attendance - Max. Marks: Nil |
| Practical Internal Max Marks: 30 | Lab work & Sessional - Max Marks: 15 | Assignment/Quiz/Attendance- Max. Marks: 15 |

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|-----------------------|--|
| Pre-Requisite | Nil |
| Course Outcome | 1. To be able to understand the concept of planning evaluation. |
| | 2. To understand the surveys conducted for the preparation of plans. |
| | 3. To get to know about the study of planning proposals. |

| Unit | Contents (Theory) | Marks Weightage |
|------|--|-----------------|
| I | <p>Minor Problem:-</p> <p>I. Planning evaluation and appraisal of small & medium town/ central metropolitan areas/business districts / residential/industrial areas schemes.</p> <p>II. Identify and explain the objectives of the problem.</p> <p>III. Surveys conducted for the preparation of plans.</p> <p>IV. Study of Physical Growth of socio Economic potentials, directly related to land use.</p> <p>V. Planning Proposals.</p> <p>VI. Implementation procedures and development control regarding selected land use.</p> <p>VII. Appraisal of plan , Report submission.</p> <p>Major problem:-</p> <p>I. Preparation of development / redevelopment plans for small and medium town /metropolitan cities reasons for selection of towns with</p> <p>II. Surveys.</p> <p>III. Data collection.</p> <p>IV. Maps preparation.</p> <p>V. Planning proposals & analysis, calculation, recommendations.</p> <p>VI. Feasibility, implementation reports.</p> | 100 |

Text Book/References Books/ Websites: Nil**Suggested List of Laboratory Experiments:-**

Student should prepare a detailed layout report as per the topic assigned by subject faculty.

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| Subject Code | Subject Title | Credit | | | Theory | | | Practical | | |
|--------------|---|--------|---|---|---------------|---------------|------------------------------------|----------------|----------------|-------------|
| | | L | T | P | External (35) | Internal (15) | Total (50) Min: 20 (D Grade) | External (Nil) | Internal (Nil) | Total (Nil) |
| MT1208 | Audit Course - II (English For Research Paper Writing) | - | - | - | | | | | | |

Duration of Theory (Externals): 2 Hours

| | | |
|--|---|--|
| Theory Internal- Max Marks: 15 | Best of Two Mid Semester Test – Max Marks: Nil | Assignment/Quiz/Attendance Max. Marks: 15 |
| Practical Internal Max Marks: Nil | Lab work & Sessional – Max Marks: Nil | Assignment / Quiz Max. Marks: Nil |

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|-----------------------|--|
| Pre-Requisite | Nil |
| Course Outcome | 1. Student will understand that how to improve your writing skills and level of readability. |
| | 2. Learn about what to write in each section of research article. |
| | 3. Understand the skills needed when writing a Title. |

| Unit | Contents (Theory) | Marks Weightage |
|------|--|-----------------|
| I | Planning and Preparation, Word Order, Breaking up long sentences, Structuring Paragraphs and Sentences, Being Concise and Removing, Redundancy, Avoiding Ambiguity and Vagueness. | 07 |
| II | Clarifying Who Did What, Highlighting Your Findings, Hedging and Criticizing, Paraphrasing and Plagiarism, Sections of a Paper, Abstracts, Introduction. | 07 |
| III | Review of the Literature, Methods, Results, Discussion, Conclusions, The Final Check. | 07 |
| IV | Key skills are needed when writing a Title, key skills are needed when writing an Abstract, key skills are needed when writing an Introduction, skills needed when writing a Review of the Literature. | 07 |
| V | Skills are needed when writing the Methods, skills needed when writing the Results, skills are needed when writing the Discussion, skills are needed when writing the Conclusions, useful phrases, how to ensure paper is as good as it could possibly be the first- time submission | 07 |

Text Book/References Books/ Websites

1. R. Goldbort (2006) ;Writing for Science;Yale University Press (available on Google Books).
2. R. Day (2006); How to Write and Publish a Scientific Paper; Cambridge University Press.
3. N Highman ;(1998), Handbook of Writing for the Mathematical Sciences; SIAM. Highman's book.
4. Adrian Wallwork ; English for Writing Research Papers; Springer New York Dordrecht Heidelberg London, 2011

Suggested List of Laboratory Experiments :- (Expandable): Nil