

KARPAGAM ACADEMY OF HIGHER EDUCATION  
COIMBATORE – 641 021

Minutes of the meeting of the Board of Studies in Architecture - M.Planning held on 29.03.2019 at 12.00 am / pm in the Faculty of Architecture at Karpagam Academy of Higher Education.

Members Present:

1. Ar.Kathiravan P,  
Dean i/c, Faculty of Architecture,  
Karpagam Academy of Higher Education,  
Coimbatore – 641 021.  
Ph.No: 9994220005
2. Ar.Ramakrishnamoorthy M R,  
Professor,  
Karpagam Academy of Higher Education,  
Coimbatore – 641 021.  
Ph.No: 9445167560
3. Ar.Sashikumar,  
Professor,  
Karpagam Academy of Higher Education,  
Coimbatore – 641 021  
Ph.No: 9952664770
4. Ar.Balakrishnaa V  
Senior Professor  
Karpagam Academy of Higher Education,  
Coimbatore – 641 021  
Ph.No: 9842468559
5. Ar.Hiranmayi S  
Assistant Professor  
Karpagam Academy of Higher Education,  
Coimbatore – 641 021,  
Ph.No: 9886813205
6. Ar. Vivit Samuel Vedaraj  
Senior Architect  
Central Public Works Department (CPWD),  
Madurai - 625017  
Ph.No: 9840992941
7. Ar.Valliyappan,  
Associate Professor  
School of Planning and Architecture  
Vijayawada – 521104  
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The Chairperson welcomed the members of the Board. The Board carefully scrutinized the draft Regulations and syllabi and after detailed discussion the following resolutions were passed.

**Agenda: 1**

To consider and approve the Regulations and Syllabus for **M.Plan** programme for the Academic year 2019 – 2020.

**Agenda: 2**

To consider and approve the Regulations and Syllabus for **M.Plan** programme.

Changes made in Syllabus:

1. **19MPN101- PLANNING THEORY AND PRACTICE**
  - a. **UNIT I PLANNING PRINCIPLES AND PROCESS** - *Technical processes for land use, urban design, natural resources, transportation, & infrastructure planning.*
  - b. **UNIT II PLANNING THEORIES AND SYSTEM** - *Emerging Planning Concepts: inclusive city, safe city, Green City, Shadow city, Sustainable City,*
  - c. **UNIT III PLANNING SURVEYS** - *Tabulation of data, graphical presentation of data, techniques of graphical presentation of spatial data.,*
2. **19MPN102 - SOCIO – ECONOMIC AND SPATIAL ASPECTS OF HUMAN SETTLEMENTS AND PLANNING**
  - a. **UNIT I SOCIOLOGY CONCEPTS AND SOCIO-SPATIAL ASPECTS** - *Socio-cultural profile of Indian society and urban transformation;*
  - b. **UNIT IV URBAN LAND USE AND SETTLEMENTS ORGANIZATION** - *Policies and strategies in economic planning, balanced versus unbalanced growth, public sector dominance; changing economic policies, implications on land.*
3. **19MPN103 - TRAFFIC AND TRANSPORTATION PLANNING**
  - a. **UNIT I TRANSPORT DEVELOPMENT IN INDIA** - *Future Developments in transportation*
  - b. **UNIT II URBAN TRANSPORTATION SYSTEM & TRIP GENERATION ANALYSIS:** *Trip Generation Analysis: Trip Production Analysis; Category Analysis; Trip Attraction Modeling.*
  - c. **UNIT III MODE CHOICE MODELING AND TRIP DISTRIBUTION ANALYSIS:** *Disaggregate Mode-Choice Model, Logit Model of Mode-Choice, Binary Choice Situations, Multinomial Logit Model, Model Calibration.*
  - d. **UNIT IV TRIP DISTRIBUTION ANALYSIS AND ROUTE ASSIGNMENT** - *Route Assignment: Description of Transport Network, Route Choice Behaviour, The Minimum Path, Minimum Path Algorithm, Route Assignment Techniques, All-or-Nothing Assignment, Multipath Traffic Assignment, Capacity-Restrained Traffic Assignment.*
4. **19MPNE1A - PUBLIC TRANSPORT PLANNING**
  - a. **UNIT - 1 INTRODUCTION TO PUBLIC TRANSPORT SYSTEMS** - *Present scenario of road development in India*
  - b. **UNIT - 2 PUBLIC TRANSPORT PERFORMANCE AND ECONOMIC ASPECTS (Part 1)** - *Highway Transportation Costs,*
  - c. **UNIT - 3 PUBLIC TRANSPORT PERFORMANCE AND ECONOMIC ASPECTS (Part 2)- Road User Cost Study in India**
5. **19MPNE1B - TRANSPORT ECONOMICS**
  - a. **UNIT - 1 TRANSPORT DEMAND AND SUPPLY** - *Highway Transportation Costs, Road User Costs and Benefits*
  - b. **UNIT - 3 COSTING AND PRICING OF TRANSPORT SERVICES (Part 2)** - *Basic formulas-Methods-BCR-NPV-IRR–Their Basic Characteristics, Illustrative applications on above*
  - c. **UNIT - 4 PRINCIPLES OF ECONOMIC APPRAISAL** - *Break Even Analysis-Sensitivity Analysis. Case studies and problems.*
6. **19MPNE1C - DISASTER MANAGEMENT**
  - a. **UNIT III DISASTER POLICY AND RISK ANALYSIS** - *Risk Analysis: Its concept and analysis, Risk Reduction, Vulnerability : Its concept and analysis,*
  - b. **UNIT IV DISASTER AND TECHNOLOGY** - *Development planning tasks at the pre-disaster and post- disaster stages. Traditional methods of planning and construction,*



7. **19MPNE1D - REAL ESTATE AND HOUSING MARKETS**
  - a. **UNIT I INTRODUCTION** - Modes for conducting Real Estate Business. Seven Stages of Real Estate Development
  - b. **UNIT II INVESTMENT AND LAWS** - Different kind of Agreements used in Real Estate Business
8. **19MPNE1E-MATERIALS, TECHNOLOGY AND INFRASTRUCTURE**
  - a. **UNIT - 1 INTRODUCTION TO MATERIALS AND TECHNOLOGY** - Indian scenario and Global scenario.
  - b. **UNIT - 3 CONSTRUCTION INDUSTRY** - Consumer satisfaction.
  - c. **UNIT - 4 COST OPTIMIZATION** - Budgeting and budgetary control, Budgeting process, fixed and flexible budgeting, Types of budgets,
9. **19MPN201- CITY PLANNING**
  - a. **UNIT I INTRODUCTION** - Urban development – schemes, acts and mission
  - b. **UNIT III ZONAL PLAN AND DEVELOPMENT CONTROL RULES** - Conservation and improvement of environment, Compliance of government policies, Zoning, Development regulations, Resource mobilization and Implementation mechanism.
  - c. **UNIT IV CASE STUDIES-** Sustainable cities, Counter magnets,
10. **19MPN202 - REGIONAL PLANNING**
  - a. **UNIT I CONCEPT OF REGIONAL PLANNING** - Economy, competitiveness, Special Regions: SEZ, Agro Regions, Ecological regions, etc.
  - b. **UNIT III GROWTH MODELS** - Sector theory, Stage theory, Export base, model, Theory of Industrial Locations, Cumulative Causation Theory, **UNIT IV REGIONAL DEVELOPMENT PATTERN** - ore, Fringe and Periphery in a Region and its planning; Tools and techniques available for planning regions in India;
  - c. **UNIT V CASE STUDIES** - Kolkata Metro Region, Chennai Metro Region, and other Metro Regions in India.
11. **19MPN203 - RESEARCH METHODOLOGY**
  - a. **UNIT I RESEARCH AND PLANNING** - Descriptive vs Analytical, Applied vs Fundamental, Quantitative vs. Qualitative, and Conceptual vs. Empirical.
  - b. **UNIT IV DATA ANALYSIS-** Probability Distribution and Sampling Distribution, Correlation and Regression,
  - c. **UNIT V REPORT WRITING** - Application of results of research outcome,
12. **19MPNE2A - RURAL AND URBAN HOUSING**
  - a. **UNIT II HOUSING POLICIES-** National planning and rural development, concept of planning for rural settlements. Regional development and urban rural partnership
  - b. **UNIT III HOUSING IN RURAL** - Public participation in rural development process, role of voluntary organizations.
13. **19MPNE2B - PLANNING LEGISLATION AND PROFESSIONAL PRACTICE**
  - a. **UNIT II ACTS AND RULES GOVERNING LOCAL BODIES** - Improvement Trust Act, Development Authorities Act, Land Acquisition Act 1986, Rent Control Act, Apartment Ownership Act 1983,
  - b. **UNIT III ACTS RELATED TO PLANNING AND IMPLICATIONS OF LAWS AND LEGISLATION ON DEVELOPMENT** - Significance of land development controls – Zoning, subdivision regulations, building regulation and bye-laws
  - c. **UNIT IV PROFESSIONAL PRACTICE** - role in decision making processes and the process in relation to varied consultancy assignment of planning.
14. **19MPNE2C - GIS MODELING IN URBAN AND REGIONAL PLANNING**
  - a. **UNIT II SPATIAL DATA INPUT** - Types of data, spatial and non spatial data, data structure, points, lines, polygon, vector and raster, files and file organization, database, data entry, digitizer, scanner, Dbase, files and data formats, data compression.
  - b. **UNIT III ATTRIBUTE DATA INPUT** - Satellite images as input to GIS;
  - c. **UNIT IV SPATIAL ANALYSIS USING GIS** - Automated mapping and facility management (AM/FM).
15. **19MPNE2D - URBAN DEVELOPMENT AND MANAGEMENT**
  - a. **UNIT II URBAN DEVELOPMENT MANAGEMENT** - Techniques of land assembly: acquisition, readjustment, pooling, sharing, plot reconstitution, land lease, cooperative of landowners;
  - b. **UNIT - III LAND AND REAL ESTATE (PART 1)** - Regulation in Land Markets, Land Management Techniques.
  - c. **UNIT IV LAND AND REAL ESTATE (PART 2)** - Land valuation techniques, land pricing, subsidies, auctions; type of development: plotted, flatted system, and their effect on land pricing. Hedonistic pricing, land price behavior in urban centers; constructing the land price index,.



**16. 19MPNE2E - INCLUSIVE URBAN PLANNING**

- a. **UNIT I Understanding inclusive urban planning** - Sustainable development goals.
- b. **UNIT II Stakeholders Profile And Needs, Access To Shelter, Services And Livelihoods (Part 1)** - *improving the inclusivity of urbanization, Methods of inclusivity.*
- c. **UNIT III Stakeholders profile and needs, access to shelter, services and livelihoods (part 2)** - *location characteristics of settlements.*
- d. **UNIT IV Participatory planning & policies, programmes & legislation** -
- e. *Examine the practice of participatory methods in national/regional policy making and planning exercises.*

**17. 19MPN301 - ENVIRONMENTAL PLANNING**

- a. **UNIT I DEVELOPMENT CONSEQUENCES ON ENVIRONMENT** - *Introduction to State and National policies.*
- b. **UNIT II ENVIRONMENTAL MANAGEMENT AND STANDARDS** - *Environmental Zones (Hill, coastal, arid, characteristics, resources, settlements pattern, problems and potentials, regulating mechanisms for development*
- c. **UNIT IV ENVIRONMENTAL DECISION MAKING** - *Appropriate technologies and applications.*
- d. **UNIT V ENVIRONMENTAL APPROACH IN PLANNING** - *Environmental performance evaluation.*

**18. 19MPN302 - PROJECT FORMULATION AND IMPLEMENTATION**

- a. **UNIT I INTRODUCTION TO PROJECT FORMULATION** - *Creating a Project Proposal (Establishing Objectives, scoping the boundaries,*
- b. **UNIT II PROJECT ANALYSIS** - *Estimation in Project Proposal*
- c. **UNIT IV PROJECT FINANCING AND IMPLEMENTATION** - *Project resource management (Overview and types of resource, Resource constraints & Scheduling, Allocation methods, Resource vis-à-vis other Activities of project planning).*
- d. **UNIT V PROJECT MONITORING AND EVALUATION** - *Risk Management , Time Management , Project Monitoring and Controlling (Monitoring process (time, cost, resource), control processes, earned value cost/schedule system, variance analysis, CBA and other techniques)*

**19. 19MPNE3A - ENVIRONMENTAL DESIGN**

- a. **UNIT – 1 EVOLUTION OF ENVIRONMENTAL DESIGN, THEORY AND PRACTICE** -
- b. *Concepts of urban ecology - Theories of urban ecology and linkages with sustainable urbanism,*
- c. **UNIT – 4 URBAN CLIMATOLOGY, ACOUSTICS AND CLIMATE CHANGE** - *change challenges in cities.*
- d. **UNIT – 5 URBAN CLIMATOLOGY, ACOUSTICS AND CLIMATE CHANGE II** - *Understanding Climate Change: Greenhouse gases, Anthropogenic causes, Carbon Cycle, Global Warming, Inventory of GHGs.*

**20. 19MPNE3B - ENVIRONMENTAL IMPACT ASSESSMENT**

- a. **UNIT – 2 METHODS OF EIA** - *Environmental Settings, Impact Prediction and Evaluation, Methods of EIA; advantages and limitations, Documentation and Monitoring, EIA Effectiveness, EMP's*
- b. **UNIT – 3 ASSESSMENT OF IMPACTS** - *Exposure to Project specific TOR s and EIA Manuals*
- c. **UNIT – 4 STRATEGIC ENVIRONMENTAL ASSESSMENTS** - *Sectoral environmental assessment, Strategic Environmental Assessment: Key concepts, SEA Legislation and Process, Regulatory and Planning Framework of SEA and Implementation, SEA Tools and Techniques*
- d. **UNIT – 5 APPLICATION OF APPROPRIATE TECHNIQUES FOR EIA** - *Risk assessment / Vulnerability assessment, Sustainability, Appraisal, Carrying capacity / Environmental thresholds,*

**21. 19MPNE3C - ENVIRONMENTAL LEGISLATION, EVALUATION AND PRACTICES**

- a. **UNIT 1 ENVIRONMENTAL LEGISLATION (Part 1)** - *Mines and Mineral Act., Factories Act., Pesticides Act, Indian Forest Act., Wildlife Act,*
- b. **UNIT 3 PLANNING LEGISLATION (Part 1)** - *Concept of Law: Source of law (i.e. custom, legislation and precedent), meaning of terms of law, legislation, ordinance, Bill, Act, Regulations and Bye-laws. Significance of law and its relationship to Urban planning benefit of statutory provisions- eminent domain & police powers.*



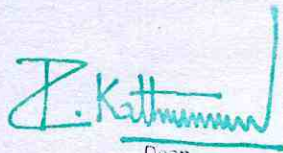
- c. **UNIT 4 PLANNING LEGISLATION (Part 2)** - Evolution of Planning legislation. An over view of legal tools connected with Urban Planning and Development, Town and Country Planning Act, Improvement Trusts Act,
- d. **UNIT 5 ARBITRATION AND LAND DEVELOPMENT CONTROLS** - Concept of Arbitration; Betterment levy; development charges and public participation in Statutory planning process;
- 22. **19MPNE3D - WEB BASED APPLICATIONS TO URBAN AND REGIONAL PLANNING**
  - a. **ROLE OF WEB BASED TECHNOLOGY IN PLANNING** - Process and systems in Organization involved in planning,
  - b. **19MPNE3E - PLANNING FOR TOURISM**
  - c. **UNIT I INTRODUCTION TO TOURISM** - Types of tourism, The basic components of tourism, The elements of tourism, Importance of tourism
  - d. **UNIT II TOURISM SECTOR – IMPACTS** - Economic impacts of tourism development, Socio-cultural impacts of tourism development, and Environmental impacts of tourism development
  - e. **UNIT III PLANNING FOR TOURISM (PART 1)** - Interactive planning vs. Conventional planning in tourism, Environmental and socio-cultural considerations in planning, Common sequence/ levels in tourism planning,
- 23. **19MPN401 - URBAN GOVERNANCE AND INSTITUTIONAL MANAGEMENT**
  - a. **UNIT I INTRODUCTION: BASIC CONCEPT & LEGAL PROVISIONS** - Organizational interfaces, People and community, Land as basic resources, Environment and Ecology, Distinctive feature of nagar panchayat and NMU,
  - b. **UNIT II URBAN AND METROPOLITAN PLANNING** - Essential concepts of planning and developments, Regional and metropolitan planning, Urban planning, Urban infrastructure and services.
  - c. **UNIT IV URBAN ISSUES AND RISK MANAGEMENT** - Traffic and transportation management, Traffic and transportation management.

**The change in syllabi is 61.5%**

**Resolution: 1**

Resolved to approve the Regulations and Syllabus for **M.Plan** programme and it comes into effect from 2019 - 2020.

CHAIRPERSON:-



Dean

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