MANIPAL SCHOOL
OF ARCHITECTURE AND PLANNING
MANIPAL
(A constituent unit of MAHE, Manipal)
INSPIRED BY LIFE

COURSE OUTCOMES
M. Arch (Urban Design & Development)

SEMESTER: I

UDD 6501
URBAN DESIGN & DEVELOPMENT LAB – I

On the completion of this course, the students should be able to:

- Demonstrate presentation, documentation and analyzing techniques of urban context.
- Identify urban issues and opportunities at precinct level in urban context.
- Analyze and present the findings.
- Recommend methodology for urban design process through the understanding of key concepts and principles of urban design.
- Develop a conceptual design scheme.

UDD 6503
SITE PLANNING

On the completion of this course, the students should be able to:

- Outline comprehensively the planning and development of the site in terms of its contextual setting.
- Interpret the theories and approaches of site planning
- Assess and develop resource inventory for the site.
- Evaluate the site constraints and available opportunities.
- Develop land suitability analysis.

UDD 6505
URBAN DESIGN HISTORY AND TECHNIQUES

On successful completion of this course, students will be able to:

- Define the discipline of urban design, its scope and objectives and urban terminologies
- Interpret the evolution of urbanity globally.
- Identify the various forces and determinants of growth and related theories.
- Analyse the urban form and urban spaces and explore spatial, functional, and historical transformation in built environments.
- Examine the different methods and techniques for empirical studies.

UDD 6507
URBAN GOVERNANCE AND POLICY PLANNING

On successful completion of this course, students will be able to:

- Classify the tools and methods required for implementing policy management framework.
- Explain various concepts of urban planning relating to the Law and Indian Constitution.
- Interpret the processes involved in framing the policy and legislation and analyze the best practices in urban India.
- Assess the Development Control Rules, Zoning Laws, Form based Codes
- Evaluate the concepts of urban governance, legislative provisions and concepts of urban finance of Urban India.

UDD 6509
GEOGRAPHIC INFORMATION SYSTEMS

On successful completion of this course, students will be able to:

- Relate to the concepts of Geo-Informatics and its application in Decision Making.
- Illustrate the remote sensing technologies.
- Choose various data-capturing platforms.
- Analyze with spatial analytical tools and image processing techniques.
- Recommend and present the information for decision making.

UDD 6511
RESEARCH METHODOLOGY

On successful completion of this course, students will be able to

- Explain the basic concepts and understand the characteristics of research.
- Identify the research methods in built environment.
- Evaluate the procedure for hypothesis
- Analyse the data collection and sampling methods and illustrate the method of data collection.
- Propose and communicate a feasible research report.

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SEMESTER: II

UDD 6502
URBAN DESIGN DEVELOPMENT LAB-II

On successful completion of this course, students will be able to:
- Identify the tangible and intangible resources of the city.
- Classify the policies for the upkeep of the city's culture and heritage.
- Analyze the importance of cities urban form and its living heritage.
- Recommend the relevant design strategies.
- Propose urban design interventions to balance the value of heritage and contemporary development.

UDD 6504
DIALOGUES IN URBAN DESIGN

On successful completion of this course, students will be able to:
- Relate to the topics, issues or themes relating to the contemporary urban environment.
- Identify critical perspectives on the various dimensions of urban design.
- Examine appropriate cases for deliberation of the topic, issues, or theme.
- Appraise the case critically, associating its role and value in the domain of urban design.
- Justify and develop an argument and attitude towards urban design through critical analysis of the case or topic.

UDD 6506
FUNDAMENTALS OF TRANSPORT PLANNING

On successful completion of this course, students will be able to:
- Explain different attributes of urban transport systems.
- Interpret different concepts and approaches to create sustainable transportation in an urban area.
- Make use of appropriate data collection and interpretation techniques to understand travel behaviour.
- Evaluate different factors to derive contextual and sustainable transport solution
- Recommend designs and strategies to make effective transport solutions for all.

UDD 6508
URBAN LAND ECONOMICS

On successful completion of this course, students will be able to:
- Explain the concepts of urban Economics, Land value capture, Cash flow, Cost-benefit analysis, profitability.
- Identify the determinants of Demand for land.
- Evaluate the importance of Government intervention in the Land market with housing policy.
- Justify the measures to regulate the real estate market, budgeting and financing policy of the government
- Recommend suitable Urban Design guidelines in coherence with real estate in the city

UDD 6510
URBAN PROJECT MANAGEMENT (MLC)

On successful completion of this course, students will be able to:
- Outline the importance of project management in urban scale.
- Identify the key aspects of stakeholders and their roles in project management.
- Examine the documents needed for the project to be implemented through management perspectives.
- Appraise techniques and methods of preparation of documents for a large-scale project.
- Formulate a project with all necessary documents.

PROFESSIONAL ELECTIVES

UDD 6512.1
INDIAN CITIES AND URBANISM

On successful completion of this course, students will be able to:
- Identify any focused area of the city for study.
- Outline the key indicators of the chosen area/topic.
- Analyze the key aspects of the study area in the city building.
- Evaluate the impact of the study on the city's urbanity.
- Imagine what the future holds.

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COURSE OUTCOMES

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UDD 6512.2
VISUALIZING THE CITY

On successful completion of this course, students will be able to:

- Define the various mediums through which cities are represented time to time.
- Interpret the various ways in which the chosen medium represents the city.
- Identify an appropriate case for deliberation and study the background of the city/storyline/narrative with respect to the plural layers of urbanism.
- Analyze the case to bring out the critical and salient features of the city and how it has revealed through the medium.
- Construct an urban imagery of the city and its argument relating to the contemporary era

UDD 6512.3
INCLUSIVE CITIES

On successful completion of this course, students will be able to:

- Interpret the Important concepts of Inclusive Development.
- Experiment with the concept of Stakeholders in Inclusive Urban Development.
- List the principles of Inclusive city planning.
- Explain the Participatory Planning for Inclusive Development.
- Recommend Management and Best practices for Inclusive Cities

SEMESTER: III

UDD 7001
URBAN DESIGN AND DEVELOPMENT LAB III

On successful completion of this course, students will be able to:

- Outline and interpret the city through the networks of allied disciplines.
- Identify the complex urban systems and city life.
- Analyse the data collected for appropriate analysis.
- Appraise the complex data layered in various categories to visualise a futuristic and sustainable city.
- Develop the knowledge and understanding of skills learnt in the form of proposals.

UDD 7003
PRE THESIS

On successful completion of this course, students will be able to:

- Choose a topic of interest or an issue in the urban realm.
- Outline extensive literature study on the topic selected
- Develop a suitable research question or hypothesis or develop the potential scope of the design
- Assess the outcomes of the research and develop a proposal with suitable theoretical frameworks.
- Formulate an Urban design thesis proposal.

UDD 7005
INFRASTRUCTURE PLANNING

On successful completion of this course, students will be able to:

- Explain the role of infrastructure in the process of sustainable development.
- Identify various approaches and strategies for the design of the physical infrastructure of an urban area.
- Make use of appropriate mapping techniques to understand the performance of infrastructure in a given context.
- Evaluate the infrastructure requirements to understand the demand and supply.
- Recommend interventions/ strategies to improve the access and effectiveness of infrastructure in the urban area.

UDD 7007
SUMMER INTERNSHIP

The students are required to work in vacation between the 2nd and 3rd semesters or as per the academic calendar. Students are expected to work in a Private Urban design firm or work on an Urban research project in reputed organisations/ Centers formed under MAHE/Government bodies offering projects at Urban Scale or large urban architecture projects having a bearing on urban issues. Students are expected to present a one-time jury at the beginning of 3rd semester and graded as S/NS.

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PROFESSIONAL ELECTIVES

UDD 7009.1
FOOD AND URBANISM

On successful completion of this course, students will be able to:
- Outline the importance of public places for food in cities.
- Make use of eateries and food hawking areas as a placemaking prospect.
- Classify various ephemeral aspects related to foodscapes in the city.
- Perceive the experience generated by activities related to the food in an urban area.
- Evaluate the importance of health and hygiene in public places where food-based activities are dominant.

UDD 7009.2
CITIES AND SUSTAINABILITY

On successful completion of this course, students will be able to:
- Relate to sustainability concepts and real-time urban development challenges faced.
- Identify critical dimensions of sustainable development and the key spatial and temporal connections.
- Compare the urban development cases based on knowledge of climate change and resilience.
- Appraise the knowledge of urban disaster risk reduction and climate resilience through vulnerability and risk assessment tools and techniques.
- Assess cases of urban development in terms of sustainability, footprint, environmental impact and policies.

UDD 7009.3
URBAN HERITAGE MANAGEMENT

On successful completion of this course students will be able to:
- Relate to basic theories in the practice of heritage conservation.
- Interpret different National and International policies used for the conservation of historic precincts, sites and buildings.

- Examine the physical, social, economic, infrastructural and administrative aspects influencing the formation and transformation of historic habitats.
- Assess the complex realities and dynamic nature of Indian historic towns and cities.
- Recommend context-based guidelines for conserving the heritage.

UDD 7009.4
URBAN SOCIOLOGY

On successful completion of this course students will be able to:
- Explain theories of urban social formations to analyse the social production of space.
- Apply theories to comprehend space and urban social structure.
- Analyze theories of migration and urban informality to understand their relationship with the urban pattern and politics.
- Value the theories of urban citizenship, the terrain of law and concepts such as right to the city.
- Discuss the key aspects of global finances and right to city.

SEMESTER: IV

UDD 7002
THESIS

On successful completion of this course students will be able to:
- Demonstrate fundamentals and conceptual framework of focused study.
- Examine the site context and collect required data (literature in case of research) for the focused study in case of design.
- Analyze the data collected on all parameters studied. (Develop suitable research question/hypothesis)
- Appraise the data leading to rationale inferences leading to design output.
- Propose urban design interventions.