



**Subject:** Planning Studio-1 - METTC11501

**Type of course:** Major(Core)

**Prerequisite:** NIL

**Rationale:** A Planning Studio is essential in urban and regional planning education and practice, providing a hands-on, collaborative environment for students and professionals to tackle real-world planning challenges. It bridges theoretical knowledge with practical application, allowing participants to engage in the entire planning process—from problem identification to solution implementation. The studio fosters critical thinking, creativity, and teamwork, essential skills for addressing complex urban issues. Through direct engagement with communities, stakeholders, and interdisciplinary teams, participants develop a nuanced understanding of social, environmental, and economic factors in planning. This experiential learning approach enhances the ability to create sustainable, equitable, and context-sensitive solutions. Additionally, the Planning Studio serves as a laboratory for innovation, where new ideas and methodologies can be tested and refined, contributing to the evolution of planning practices and the development of future leaders in the field.

**Teaching and Examination Scheme:**

Teaching Scheme			Credits	Examination Marks					Total Marks
CI	T	P		C	Theory Marks		Practical Marks		
			ESE		MSE	V	P	ALA	
0	0	12	6	00	00	20	100	30	150

*Legends: CI-Class Room Instructions; T – Tutorial; P - Practical; C – Credit; ESE - End Semester Examination; MSE- Mid Semester Examination; V – Viva; CA - Continuous Assessment; ALA- Active Learning Activities.*

**Continuous Assessment:**

Sr. No	Active Learning Activities	Marks
1	<b>Visit Government office</b> Visit government agencies or offices to understand their roles and gather information related to studio activities. Prepare a report on these visits and upload it to the GMIU web portal.	10



2	<b>Topography Study</b> The faculty will assign a selected topography sheet to a group of students. The group will prepare a presentation based on the sheet and upload it to the GMIU web portal.	10
3	<b>Revise the town planning</b> The faculty will provide an existing city plan to a group of students. The group will revise the city plan and upload it to the GMIU web portal.	10
<b>Total</b>		<b>30</b>

**Course Content:**

Sr. No	Course content	Hrs	% Weightage
1	<b>Foundation Studio</b> Basic Principles, aims and objectives of Physical planning. Space standards, Normative Standards, Performance Standards Urban Development Plan Formulation and Implementation (UDPFI): Planning norms and standards. Development Control: Zoning Regulations, Sub-division Regulations and Building bye-laws and Regulations for conservation of historical, heritage and natural areas. Neighbourhood planning: Principles and Techniques, Site Analysis. Planning Surveys, socio-economic surveys and studies for preparation of Master Plans. Preparation of Master Plans for Local Planning Area. URDPFI Guidelines for Plan Preparation and Implementation.	-	-
2	<b>Topographic sheet analysis</b> Introduction to maps. Obtaining and analyzing the topographic sheet in respect to the salient features. Presentation of the analysis Individual Assignment Report: Interpretation of Topographical sheets	-	-
3	<b>Neighbourhood Appreciation</b> The neighbourhood appreciation exercise aims to enable the students to understand and contextualize the location of the area to the city, zone, and area in which the particular place is situated. This is done with the socio-economic, spatial, and cultural characteristics of that city, zone, location, etc. The main purpose is to make the students appreciate the locational attributes of land parcels for future development in a city. Due to the size of the area, this exercise is done in groups of students being assigned to a particular area. The following planning issues at the area level should be identified: Review of the Master Plan /Zonal/ Area plan	-	-

	<p>concerning the selected areas.                  Appreciation/Analysis of ward-level data.                  Perception of areas in terms of legal/illegal/authorized/unauthorized, Slums, Urban Aesthetics.                  Social Categorizations of people- Type of population living, people's perception about the area, and its planning problems.                  Land use includes Agriculture land and land-use conflicts, extent (%) of broad land use such as commercial, industrial, residential, institutional, and recreational.                  The extent of formal/informal activities present in the area including their location and conflicts.                  General land tenure of the area and land value for different uses                  Major types of transport, type of roads, the hierarchy of roads, type of transport modes used.                  Amenities: Location of Socioeconomic and Physical infrastructure and their problems as perceived by the local population. Look for specific infrastructure such as Water supply, drainage (water logging areas), waste collection and disposal system, sanitation, education, healthcare and banking facilities, etc.                  Environmental Issues: Open Spaces – Availability and extent of open space to the built-up area, garbage disposal, encroachment (through photographic evidence and sketches)                  Locating the study area in the zone, city, and regional context for all the above aspects.</p>		
<p>4</p>	<p><b>Master Plan revision for a small/medium town</b>                  A Town is a multi-dimensional, dynamic, and futuristic space. Understanding the town involves appreciating its several dimensions and including them in the planning process. The job of a physical planner is not merely to understand the existing conflicts in development but to emerge out of this and to come out with a practical vision for the town. To arrive at this vision, a planner needs to understand the dynamics of various components of the town and how and at what level interventions can be made to achieve that vision.                  A group of students is expected to study a small to a medium-sized town in terms of its present problems and issues and project a futuristic vision in terms of scenario building.                  The exercise shall involve the following:                  Revision of Masterplan for a small/medium-sized town.                  Students in groups shall engage in primary data collection such as primary surveys, land-use map updating/verification, and verification of physical attributes.                  The bulk of the data may be obtained through secondary sources like Govt. websites/ Publications/ offices.                  Visit to the selected town shall focus on meeting various stakeholders/departments to ascertain their respective plans for</p>		



	<p>the proposed plan period. Interaction with the local planning authority/ development authority and their consultants to procure any missing data. The proposed Master Plan at the time of presentation shall present more than one scenario of development. The study template of Neighbourhood analysis shall form the basis for investigation and proposals. Students divided according to selected study templates shall contribute to the preparation and submission of a Revised Master Plan document along with the proposed land use maps (but may exclude Zoning Regulations) for their SEE.</p>		
	<b>Total</b>	-	-

**Suggested Specification table with Marks (Theory):NA**

Distribution of Theory Marks (Revised Bloom's Taxonomy)						
Level	Remembrance (R)	Understanding (U)	Application (A)	Analyze (N)	Evaluate (E)	Create (C)
Weightage	NA	NA	NA	NA	NA	NA

Note: This specification table shall be treated as a general guideline for students and teachers. The actual distribution of marks in the question paper may vary slightly from above table.

**Course Outcome:**

After learning the course, the students should be able to:	
CO1	Understood housing layout plan for all economic class and neighborhood plan with Project estimation and implementation strategies
CO2	Understood fundamentals of plan preparation and approval.
CO3	Understood the physical infrastructure in all aspects for logistics, urban roads and traffic management
CO4	Understand the concepts and practical aspects of road safety audit

**List of Assignment**

- A. Undertake studies and surveys for Site selection, site analysis, technical feasibility studies, for formulating the project and design of selected area / project.
- B. Undertake studies to assess management, financial feasibility, Cost Benefit Analysis of Project, Social and Economic Impacts of Various Projects.



C. Identify bottle-necks and prepare proposals suitable for implementation of Projects in consultation with between Planning Authority and Stake Holders

The studies need to be carried out mainly through secondary sources. A field visit to any town/city in India has to be made. The students are required to submit typed report (A4 Size paper spiral bound, 2 copies) along with studio exhibits (imperial size drawing sheet) for both the projects. The work shall be carried by the project team and to be presented to the panel of examiners including one external examiner.

### **Instructional Method:**

The course delivery method will depend upon the requirement of content and need of students. The teacher in addition to conventional teaching method by black board, may also use any of the tools such as demonstration, role play, Quiz, brainstorming, MOOCs etc.

From the content 10% topics are suggested for flipped mode instruction.

Students will use supplementary resources such as online videos, NPTEL/SWAYAM videos, e-courses, Virtual Laboratory

The internal evaluation will be done on the basis of Active Learning Assignment

Practical/Viva examination will be conducted at the end of semester for evaluation of performance of students in laboratory.

### **Web links and Video Lectures (e-Resources):**

1. Centre for Livable Cities:  
<https://www.youtube.com/c/CentreforLiveableCities>
2. Urban Planning Explained:  
<https://www.youtube.com/channel/UC6GZxJAucQK7HBFynRG1Msw/videos>

### **Reference Books:**

- [1] Analysis and Interpretation of Topographical Maps, Nelson Petrie, 2016, The Orient Blackswan, India.
- [2] URDPFI guidelines, 2016, Ministry of Housing and Urban Development
- [3] Census of India publications, Govt. of India.
- [4] Revised Master Plan 2016, Bangalore Development Authority, 2006.
- [5] Revised Master Plan 2031 draft, Bangalore Development Authority, 2017.
- [6] The Urban Pattern: City Planning & Design, Gallion A B, 2005, CBS publications, 5th Edition.
- [7] City planning in India: 1947-2017, Ashok Kumar, et. al, 2020, Routledge.