

M. Tech. I - Semester - II

Subject Name: Mini Project and Seminar / Area Planning Studio

Subject Code: MTTC13203

Type of course: Core

Prerequisite: Area planning studio intends to develop an ability in students to apply the concepts learnt in theory subjects to day to day planning practice. Through field visit, the students would understand comprehensive, interrelatedness and long-term nature of planning in a settlement.

Rationale: Developing an appreciation of components of a settlement and developing an ability to read a city or small settlement. The studio will require the students to prepare a development plan for a neighbourhood. The studio will require the students to prepare a development plan for a neighbourhood or village for rural and urban areas based on a field visit.

Teaching and Examination Scheme:

TEACHING SCHEME				Theory Marks			Practical Marks		Total
L	T	P	C	TEE	CA1	CA2	TEP	CA3	
0	0	4	2	0	0	0	80	20	100

CA1: Continuous Assessment (assignments/projects/open book tests/closed book tests **CA2:** Sincerity in attending classes/class tests/ timely submissions of assignments/self-learning attitude/solving advanced problems **TEE:** Term End Examination **TEP:** Term End Practical Exam (Performance and viva on practical skills learned in course) **CA3:** Regular submission of Lab work/Quality of work submitted/Active participation in lab sessions/viva on practical skills learned in course

Content:

Sr. No.	Topics	Teaching Hrs.	Module Weightage
1.	Neighborhood planning The Project on Housing includes preparing lay-out plans for the neighborhood incorporating field studies and familiarization with site development standards, zoning and subdivision regulations. Project cost etc. Neighborhood plan Preparation.	18	30%
2.	Village development plan Planning and designing for urban water supply, wastewater collection & conveyance, solid waste management system and social infrastructure components based village development plan preparation.	24	20%
3.	City profile land use, structure, pattern of assigned city; details shall be collected and studied and also study any ancient city and its present situation to find the progress that is made and listing out things that still remain the same. Submit the same with the presentation.	22	50%

Core

Suggested Specification table with Marks (Theory/Practical):

% Distribution of Marks					
R Level	U Level	A Level	N Level	E Level	C Level
10	20	10	30	20	10

Legends: R: Remembrance, **U:** Understanding; **A:** Application, **N:** Analyze, **E:** Evaluate **C:** Create and above Levels (**Revised Bloom's Taxonomy**)

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:

Sr. No.	CO Statement After learning this subject, students will be able to	Marks % weightage
CO-1	To develop data collection and analytical skills through field surveys and analysis for the purposes of plan preparation. (U,R,E cognitive level)	30
CO-2	To apply theoretical concepts to real world situations. (A,R,E cognitive level)	30
CO-3	To develop sensitivity to group dynamics and team work. (N,R,E cognitive level)	20
CO-4	To relate the theoretical aspects to the field aspects with proper analysis (C,R,E cognitive level)	10
CO-5	To understand the practical concepts of neighbourhood, TP schemes	10

Major Equipment:

1. Bentley software and Computers with higher configuration and internet, server

List of Open Source/learning website:

- CAD drafting tools U S Army Corps of Engineers (<http://www.hec.usace.army.mil/software/>)
- MATSim (<http://www.matsim.org/downloads>)
- TRANSIMS (<http://sourceforge.net/projects/transims/>)
- EPANET (<http://www.epa.gov/nrmrl/wswrd/dw/epanet.html>)
- GHydraulics (<http://epanet.de/ghydraulics/>)
- Innovating for sustainable infrastructure (<http://www.innovyze.com/>)