SARVAJANIK UNIVERSITY
Sarvajanik College of Engineering and Technology
Masters of Technology
Town & Country Planning

M. Tech.-I - Semester - 1

Subject Name: Planning History and Theory **Subject Code:** MTTC13101

Type of course: Core 1
Prerequisite: Basic understanding on planning history, planning concepts, planning terminology, fundamentals of urban development
Rationale: The course helps developing understanding on planning evolution and theories with land-use planning models

Teaching and Examination Scheme:

TEACHING SCHEME				Theory Marks			Practical Marks		Total
L	T	P	C	TEE	CA1	CA2	TEP	CA3	150
3	0	2	4	60	25	15	30	20	

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.	**Evolution in town planning** Urbanization in the Medieval period including a study of cities like Varanasi, Mohenjo-Daro, Harappa, Dholavira and Lothal; Chola dynasty sponsored famous towns like Thanjavur, Nagapattinam, Kanchipuram and Madurai, Contribution of eminent Planners, Impacts of Industrial revolution on urban and regional planning, Contemporary developments in planning, Urbanization on formation of metropolitan areas, socio – economic impacts of growth of population, rural – urban migration.	16	**25%**
2.	**Urban Theories** Concentric Zone Theory, Town classification – census based, growth theories, Multiple Nuclei Theory with a focus on the contributions, Land Use and Land Value Theory, Elements of town structure, changes with time and growth, physical structure and relationship between parts of city	10	**20%**

3.	**Concept of Urbanization** Indian scenario – Recent issues and practices, Global scenario, evolution of urban centres, cities, metro and mega cities – trends and bases of development, contribution of topographic features, climate and other environmental factors towards urban development.	14	**20%**
4.	**Site planning** Site Selection criteria, principles, process and constraints.	5	**20%**
5.	**Urban land use planning** Distribution of Land use Structures, demand and supply of land relationship, study of land use of different type of cities, models of land-use planning	19	**15%**

Suggested Specification table with Marks (Theory/Practical):

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

Reference Text Books:

Sr. No.	**Title of book /article**	**Author(s)**	**Publisher and details like ISBN**	**Year of publication**	**Publication Edition**
1	Town Planning in Ancient India	BinodeBehariDutt	978- 81-8205-487-5	2009	2nd
2	The Urban Pattern: City planning and design	AB. Gillion and Simon Eisner	CBS Publishers and Distributors 81-239-0915-2	2005	3rd
3	Town Planning in Hot Cities	Rishma A	Mir Publishers	2017	1st
4	Planning the 20th Century City	Ward S	978-0415693189	2002	1st
5	Lectures on Urban Economics	Jan K. Brueckner,	PHI Learning Private Limited ISBN – 978-81-203-4752-6	2011	

6	Reading Material on City and Metropolitan Planning and Development	Prof. B. C. Chattopadhyay	-	-	-
7	"Urban Planning Theory and Practice"	M. PratapRao	CBS Publishers & Distributors Pvt. Ltd (ISBN: 81-239-0757-5)	2012	
8	"Introduction to Planning Practice"	PjilipAllmendinger, Alan Prior, Jeremy Raemakers;	John Wiley & Sons Ltd (ISBN: 0-471-98522-8)		

Course Outcome:

Sr. No.	CO Statement After learning this subject, students will be able to	Marks % weightage
CO-1	To critically understand economic, cultural, social and other forces to shape built environments in history.	20
CO-2	Understanding on Planning History and Theory with Land use Structure	30
CO-3	To examine the significance of histories as they inform the present planning of settlements.	30
CO-4	To understand urbanization process and scenario with considering land relationship	10
CO-5	To understand the historical advancements in planning and their relevance to the modern world	10

Major Equipment: 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/)