

GUJARAT TECHNOLOGICAL UNIVERSITY

CIVIL (TOWN & COUNTRY PLANNING) (48)

PLANNING HISTORY & THEORY

SUBJECT CODE: 2714801

SEMESTER: I

Type of course: Core Subject - I

Prerequisite: Basic understanding on building bylaws, planning terminology, operations using CAD and word processing software

Rationale: The course helps developing understanding on planning history and theories with land-use planning models.

Teaching and Examination Scheme:

Teaching Scheme			Credits	Examination Marks						Total Marks
L	T	P		Theory Marks		Practical Marks				
			ESE (E)	PA (M)	PA (V)		PA (I)			
					ESE	OEP	PA	RP		
3	2#	2	5	70	30	20	10	10	10	150

Content:

Sr. No.	Content	Total Hrs	% Weightage
1	Evolution in town planning Evolution in planning and physical form, Impacts of Industrial revolution on town and regional planning, Contemporary developments in planning, Urbanization on formation of metropolitan areas, socio – economic impacts of growth of population, rural – urban migration. Contribution of eminent Planners.	16	30
2	Urbanization Concept, Indian scenario – current 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	26
3	Urban structure Elements of town structure, changes with time and growth, Town classification – census based, growth theories, Characteristics of the urban environment and its components, land use, physical structure and relationship between parts of city.	10	18
4	Urban land use planning Land use Structures, demand and supply of land relationship, study of land use of different type of cities.	9	16
5	Site planning Selection criteria, principles, process and constraints	5	10

Reference Books:

1. Binode Behari Dutt; "Town Planning in Ancient India"; Isha Books, New Delhi; 2009 (ISBN: 978-81-8205-487-5)
2. A. B. Gillion and Simon Eisner, "The Urban Pattern: City planning and design", CBS Publishers and Distributors Pvt. Ltd, Delhi; 2005 (ISBN: 81-239-0915-2)
3. Rishma A., "Town Planning in Hot Cities", Mir Publishers, Moscow.
4. Ward S (2002), "Planning the 20th Century City" John Wiley & Sons.
5. Jan K. Brueckner, "Lectures on Urban Economics", PHI Learning Private Limited, New Delhi, 2011 (ISBN – 978-81-203-4752-6)
6. Prof. B. C. Chattopadhyay, "Reading Material on City and Metropolitan Planning and Development", Institute of Town Planners, India; New Delhi
7. Compilation and editing by Mahavir, "Reading Material on Planning Theory", Institute of Town Planners, India; New Delhi
8. Prof. B. K. Sengupta, "Reader's volume on History of Human Settlements", Institute of Town Planners, India; New Delhi
9. M. Pratap Rao; "Urban Planning Theory and Practice", CBS Publishers & Distributors Pvt. Ltd; New Delhi; 2012 (ISBN: 81-239-0757-5)
10. Development Plans, Master plans prepared by urban development authorities inclusive of spatial planning proposals
11. Pjilip Allmendinger, Alan Prior, Jeremy Raemakers; "Introduction to Planning Practice"; John Wiley & Sons Ltd; New York (ISBN: 0-471-98522-8)
12. M. Koteswara Rao; "Urbanization Migration and Economic Development"; Kaniskha Publishers Distributors (1995), New Delhi (ISBN: 8173910812)
13. Lewis Mumford; "The City in History: Its Origins, Its Transformations, and Its Prospects

Course Outcome:

After learning the course the students should be able to:
Understanding on Planning History and Theory with Land use Structure

List of Experiments:

During the Studio hours, each student shall be engaged to study land use, structure, pattern of one assigned city; details shall be collected and studied. Based on secondary reports, students shall prepare a "Graduate report" and submit the same with presentation.

Study (individually) on 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 presentation.

One of the report is to be presented for external examination.

Open Ended Problems:

1. What do history of planning teaches us?
2. What are the ideal principles of urbanization?
3. How to tackle demand and supply of land in urban area?
4. What are the factors impacting population growth? How to measure the level of such impact?
5. How topographic features play a role in urbanization?

Assignment work:

Students shall refer the books and reference materials and prepare answers to the assignment problems including the topics on Evaluation of town planning, urbanization, urban structure, urban land use and site planning

Major Equipment:

Computers with higher configuration and internet, server

List of Open Source Software/learning website:

- Google Earth (<https://earth.google.com/>)
- The World Bank (<https://publications.worldbank.org/>)
- Government of India, Ministry of Urban Development (<http://moud.gov.in/>)
- Government of India, Planning Commission (<http://planningcommission.nic.in/>)
- Government of India, Town and Country Planning Organization (<http://tcpomud.gov.in/>)
- National Institute of Urban Affairs (<http://www.niua.org/>)