



GUJARAT TECHNOLOGICAL UNIVERSITY
Syllabus for Diploma of Vocation (D.Voc.), 6th Semester
Branch: Architectural Assistantship
Subject Name: Theory of Town Planning
Subject Code: 1260602

Type of course: Core

Prerequisite: Insight knowledge about development of civilization and settlements planning.

Rationale: To develop a basic understanding at urban level. A properly planned city / town infrastructure helps in utilizing the land capability and its resources to its maximum. Town residents wish that all the facilities are in most nearby locations. The town planning includes all these things and suitable selection of land area, which is most appropriate for the residential, good environment, location and connecting distance with the road and highway.

Teaching and Examination Scheme:

| Teaching Scheme | | | Credits | Examination Marks | | | | Total Marks |
|-----------------|---|---|---------|-------------------|-------|-----------|--------|-------------|
| L | T | P | | Theory Marks | | Practical | | |
| | | | | ESE (E) | PA(M) | ESE (V) | PA (I) | |
| 3 | 0 | 0 | 3 | 50 | 0 | 0 | 0 | 50 |

L- Lectures; T- Tutorial/Teacher Guided Student Activity; P- Practical; C- Credit; ESE- End Semester Examination; PA- Progressive Assessment

Content:

| Sr. No. | Content | Total Hrs. | Module % Weightage |
|---------|--|------------|--------------------|
| 1 | <p>History of town planning (Europe)</p> <p>Mesopotamian Town Planning – security system of moat, ziggurats of baked mud bricks as symbol of religion and agriculture the predominant profession. Eg – city of Ur, Babylon</p> <p>Egyptian Town planning with Pyramids and temples as the most important part of the settlements, settlement planning with intercity waterways connection eg – TEL – El – Ammorna, Kahun</p> <p>Greek Town planning – divided into three parts – God, Administrator, Dwellings, father of formal city planning Hippodamus, agora as the formal meeting place. Eg – city of Miletus, Selinus, Priene</p> | 10 | 25 |
| 2 | <p>Introduction to the various aspects to town planning</p> <p>Evolution, Objects, Principles and Necessity of Town Planning.</p> <p>Origin and growth of Towns.</p> <p>Stages in Town Development</p> <p>Forms of planning</p> <p>Site for an ideal town</p> <p>Explain the tools of town planning.</p> <p>Distribution of land uses, DP and TP mechanism</p> | 4 | 10 |
| 3 | <p>Town planning in India</p> <p>Town planning in Indus valley civilization – Highly civilized and developed life with drainage system, orthogonal street layouts, drainage system, public building as great bath and granaries, trade network by dock cities as Lothal, baked bricks uniform house plans, eg – Mohen jo daro, Lothal</p> <p>Vedic planning concept – Town planning principles in ancient India,</p> | 10 | 20 |



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| | | | |
|----------|--|----|-----|
| | <p>planning of town dependent on various factors as soil type, climate, topography, wind orientation. Understanding of Vastu Purush Mandal, various town forms as Dandaka, Sarvathobadra, Swastika, Nandyavarta, Karmuka, PrastaraEg – Jaipur city</p> <p>Islamic Town Planning – Islamic city having mosque as the center surrounded by marketplace and residential area. Eg - Ferozabad</p> | | |
| 3 | <p>Town components</p> <p>Various aspects of Housing – importance and demand for housing, factors to be considered while selecting building site. Aspects of designing residential areas.</p> <p>Causes, characteristics and effects of slums</p> <p>Various features of open spaces - Types of recreational spaces – urban green spaces, green belt and classification of parks.</p> <p>The facts relating to the industrial areas of a town – classification and concentration of Industries, siting of industry and measures to control location of Industries.</p> <p>Different aspects of public buildings with emphasis on Town center – classification and principles of Design of public buildings, classification of Town centers.</p> | 10 | 25 |
| 4 | <p>Objectives of Town Planning</p> <p>Concepts, objects and necessity and features of Development Plan. Study of planned town in India – Gandhinagar. Data to be collected and drawings to be prepared.</p> <p>Study the Stages of preparation of Development Plan.</p> <p>Master plan of Gandhinagar to be studied and presented.</p> <p>Town Planning Schemes – definition, concept, original plot, final plot.</p> | 4 | 10 |
| 5 | <p>Urban roads and traffic management</p> <p>Aspects of urban roads – objects and requirements of a good city road. Factors to be considered while designing town road.</p> <p>Classification of urban road, principles related to road aesthetic.</p> <p>Street system – types, through and bypass roads, outer and inner ring roads, expressways, freeways.</p> | 4 | 10 |
| | Total | 42 | 100 |

Reference Books:

1. Begde V. Prabhakar-Ancient & Medieval Town Planning in India
2. Dagens Bruno. -Mayamatam Part I & II
3. Morris AEJ-History of Urban Form
4. Rangwala-Town Planning in India
5. History of Human Settlements, ITPI manual
6. URDPFI Guidelines Vol. I and II
7. Gujarat Town Planning and Urban Development Act 1976 by Govt. of Gujarat Publication



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Suggested Specification table with Marks (Theory):

| Distribution of Theory Marks | | | | | |
|-------------------------------------|---------|---------|---------|---------|---------|
| R Level | U Level | A Level | N Level | E Level | C Level |
| 5 | 20 | 15 | 5 | 5 | - |

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

Course Outcomes:

| Sr No | CO Statement | Marks % weightage |
|-------|---|-------------------|
| CO-1 | To understand the Ancient Town planning Techniques. | 30 |
| CO-2 | To understand different tools and components of town and their effect in town planning. | 10 |
| CO-3 | To understand the planned cities of India. | 20 |
| CO-4 | To develop understanding of the Objectives of Town Planning and application of land use regulations to address planning issues. | 30 |
| CO-5 | To understand and demonstrate different features of Traffic management | 10 |

Laboratory Work:

Visit to TCPO organization.

List of Open-Source Software / Learning website:

Students must refer to the following sites to enhance their learning ability.

1. <https://www.itpi.org.in>
2. <https://tcpo.gov.in>