

GUJARAT TECHNOLOGICAL UNIVERSITY

DIPLOMA IN ARCHITECTURAL ASSISTANTSHIP

SEMESTER: V

Subject Name: **Town Planning**

Sr. No.	Course Content
1.	Introduction 1.1 Evolution of Planning. 1.2 Objects of Town planning. 1.3 Principles of Town Planning. • Green Belt. • Housing. • Public Buildings. • Recreation Centres. • Road Systems. • Transport Facilities. • Zoning. 1.4 Necessity of Town Planning. 1.5 Forms of Planning, Local planning, Country planning, Regional Planning, National Planning and International Planning. 1.6 Stages of Planning. • Neighbourhood planning. • Suburban Development.
2.	Origin of Towns 2.1 The Origin of Towns. 2.2 Stages of Development. Infantile, Juvenile, Mature, Senile, Basic village, Rural town, Service town, Town, Types of cities.
3.	Growth of Towns 3.1 Ariel ports. 3.2 Railways. 3.3 Roadways. 3.4 Waterways. 3.5 Growth according to origin. 3.6 Growth according to direction.
4.	Planning of Modern Town 4.1 Usual features to be embodied. 4.2 Important points to be remembered. 4.3 Zoning. Objects of zoning, Principles of Zoning, Advantages of zoning, Importance of zoning, Aspects of zoning, Powers .

5.	Housing 5.1 Importance of Housing. 5.2 Demand for Housing. 5.3 Building Site. 5.4 Requirement and classification of Residential Buildings. 5.5 Design of residential area.
6.	Slums 6.1 Definition. 6.2 Causes of Slums. 6.3 Characteristics of Slums and Effects of Slums .
7.	Parks and Playgrounds 7.1 Types of Recreation. 7.2 Classification of Parks.
8.	Building Bye Laws: 8.1 General understanding and important terms. 8.2 Objects and Importance of building bye-laws. 8.3 Function of Local authorities. 8.4 Responsibility of owners. 8.5 Applicability of Byelaws. 8.6 Basic parameters. • set back • light plane • Floor Space Index (F.S.I.) • Parking • Fire protection • Minimum plot size 8.7 Some other terms Auditorium, Basement, Building Unit, Consolidated open plot, Dwelling house, Dwelling unit Loft, Low-rise and High rise buildings, Mezzanine floor, Shopping Centre, Theatre and Cinema, Tenement building, Ownership tenement flats, Permissible size of plot. Built up area, Margins, Area of rooms, Plinth height, Height of floors, Projection in margins, Cellar, Loft, Lift, Ventilation, Stair Minimum requirements, Water supply, Drainage, Compound Wall and gate, percolation well, Rain water harvesting, SEZ, CRZ. 8.8 Principle of building bye-laws 8.9 Building bye laws : Residential-Town Planning Schemes.
9.	Development Plan or Master Plan 9.1 Definition and concept 9.2 Objects and necessity 9.3 Data to be collected 9.4 Drawings to be prepared 9.5 Features of Master plan 9.6 Stages of preparation 9.7 Master Plan Gandhinagar/Chandigadh.
10.	Urban Roads and Traffic Management 10.1 Objects of Urban Roads 10.2 Requirements of a good city road.

	10.3 Factors to be considered. 10.4 Classification of urban roads and Types of Street systems. 10.5 Through and by-pass roads. 10.6 Express way, Freeway. 10.7 Precincts. 10.8 Road aesthetics. 10.9 Objects of Traffic Management. 10.10 Traffic Congestion and control 10.11 Other Transport systems, like roadway, railway, waterway, airway. 10.12 Road Junction or Intersections. 10.13 Road traffic problems and signals. 10.14 Mass Transport Systems.
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Term Work:

Present a paper on any current topic/development/issues related to town planning. (min. 500 words)

Reference Books:

1. Town Planning, S. C. Rangwala.
2. Radiant City, Le Corbusier.
3. Image of City, Kevin Lynch.