

Architecture and Town Planning

Course Code ARCH-305	Credit Hours 2-0
--------------------------------	----------------------------

Course Description

This course is designed to give the contemporary and ancient era concept of Architecture and Town Planning. Additionally, it concerns itself with research and analysis, strategic thinking on critical urban issues, architecture design and urban design, public participation, neighborhood planning, understanding of urban planning process, Zoning, implementation, and management.

Text Book:

1. Broddbent. G. J.C. Anthony, Emerging Concept in Urban Space Design, Van Nostrand Reinhold Co. Ltd.
2. Snyder. J.C. Introduction to Urban Planning, Milwaukee McGraw Hill Book Co.
3. Fletcher. S.B. A History of Architecture, The Athlone Press
4. Principles and Practice of Town and Country Planning by Lewis Keeble

Reference Book:

Prerequisites:

Nil.

ASSESSMENT SYSTEM FOR THEORY

	Without Project (%)	With Project/Complex Engineering Problems (%)
Quizzes	15	10-15
Assignments	10	5-10
Mid Terms	25	25
Project	-	5-10
End Semester Exam	50	45-50

ASSESSMENT SYSTEM FOR LAB

Lab Work/ Psychomotor Assessment/ Lab Reports	70%
Lab Project/ Open Ended Lab Report/ Assignment/ Quiz	10%
Final Assesment/ Viva	20%

Teaching Plan

Week No	Topics/Learning Outcomes
---------	--------------------------

1	<p>Introduction to the course- Basic Planning Concepts</p> <p>Definition, Aims, Scope, and Principles of Planning, Description of societal changes, New Urbanism.</p>
2	<p>Socioeconomic aspects of planning</p> <p>Summary of elements of urban structure - Networks, Buildings, open spaces etc. The form of the modern city in the age of automobile - Inner city & Suburban area.</p>
3	<p>Approaches to Planning</p> <p>Overview about Industrial revolution, transition to the industrial city and paradigm shift to systems views of planning approach from comprehensive planning approaches.</p>
4	<p>Principles of planning and Planning Tools and Surveys</p> <p>An introduction to basic planning principles and tools, i.e., participatory approach and related surveys, land use survey, density survey, demographic surveys etc.</p>
5	<p>Current State, Challenges, and Issues</p> <p>General discussion on the current condition of cities and regions and the challenges and issues they are facing today in the form of Slums, Katchi abadies issues of inner city.</p>
6	<p>Urban renewal, Urban regeneration</p> <p>Squatter settlement & slums up gradation and re-planning the existing towns and cities.</p>
7	<p>Overview of Urban and Regional Planning Theories and Issues</p> <p>Introduction to essential planning theories such as Location Theory, Concentric Zone Theory, Multiple-Nuclei Theory, Sector Theory, Central Place Theory, Growth Pole Theory, etc.</p>
8	<p>Street patterns – different concepts</p> <p>Layouts and location of various sectors in a city i.e., residential, commercial, gird iron pattern etc.</p>
9	<p>Sustainable Development – concepts and dimensions</p> <p>Introduction to sustainable urban development, its social economic and environmental aspects and means to achieve sustainable urban development.</p>
10	<p>The Preparation of the Plan (Master/Structure Plan)</p> <p>Description of various stages involve in physical planning process and the relation between surveys and plan.</p>

11	GIS application in Urban Planning Describe how urban planners typically use GIS as a tool for analysis and the display of quantitative data to solve urban planning problems.
12	Basics of Architecture Pre-historic and Ancient East Architecture
13	Comparative study of Egyptian, Greek, Roman, Gothic, and Indus Architecture & Civilization
14	Tracing the history and main features of Islamic architecture
15	Study & Analysis of factors affecting architecture like geographical climatic, politico religious, socio-cultural issues etc.
16	Development of buildings, use of materials both for construction as well as finishing of surfaces e.g. stone, wood, metals, concrete, synthetic polymers & ceramics.
17-18	End Semester Exam

Practical: Nil.