

GUJARAT TECHNOLOGICAL UNIVERSITY

TECHNIQUES OF PLANNING - II SUBJECT CODE: 1035503 B.PLAN 3RD SEMESTER

Prerequisite: NA

Teaching and Examination Scheme:

Teaching Scheme			Credits C	Examination Marks				Total Marks
L	Field work(T)	P		Theory Marks		Practical Marks		
			ESE(E)	PA (M)	PA (V)	PA(I)		
3	0	0	3	50	50	--	--	100

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

Content:

Sr. No.	Content	Total Hrs	% Weightage
Unit 1	Methods of Analysis Methods of analysis of Socio-Economic and Physical data; Use of techniques of Location Quotient, Coefficient of Localization; Locational attributes of activity and population; Techniques for understanding structure of urban areas, land values and density patterns;	8	20
Unit 2	Spatial Standards Formulation of spatial standards for residential, industrial, commercial and recreational areas, space standards for facility areas, utilities and networks; Population, Distance criteria; Performance standards; Case studies.	10	25
Unit 3	Regional Surveys Concept and need for Regional Planning, Region, Fact or Fallacy; Formal, Functional, Planning Regions; Regional delineation techniques, Factor analysis, Cluster analysis; Flow analysis; Case studies in regional delineation.	8	20
Unit 4	Plan Preparation Techniques Setting of Goals and Objectives; Methodologies for preparation of urban/ regional development plans, master plans, structure plan and	12	25

	strategy plan techniques; plan implementation techniques; public participation and plan implementation; techniques of urban renewal and central area redevelopment; Contents of a Master Plan, Regional Plan, etc.		
Unit 5	Introduction to Advanced Techniques Thresholds analysis, retail location and industrial location analysis; intervening opportunity models; Linear programming; Simulation, Gravity Models; Applications in planning.	10	10

Suggested Specification table with Marks (Theory):

Distribution of Theory Marks				
R Level	U Level	A Level	N Level	E Level
10	30	40	10	10

Legends: R: Remembrance; U: Understanding; A: Application, N: Analyze and E: Evaluate 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 Books:

S. No.	Name of Authors	Titles of the Book	Edition	Name of the Publisher
1.	Glasson, J.	An Introduction to Regional Planning: Concepts, Theory and Practice	--	Taylor and Francis.
2.	Field, B.G. and MacGregor, B.D.	Forecasting Techniques for Urban and Regional Planning	1992	UCL Press, London
3.	Bracken, I.	Urban Planning Methods: Research and Policy Analysis	1999	Methuen, London
4.	Hughes, J.T. and Kozlowski, J.	Threshold Analysis – An Economic Tool for Town and Regional Planning, Urban Studies, Vol No.5, No.2, pp. 132-143.	1968	
5.	Wilson, A.G.	Models in Urban Planning: A Synoptic Review of Recent Literature, Urban Studies, Vol. 5, No.3, pp. 249-276.	1973	

6.	Rondinelli, D.A.	Urban Planning as Policy Analysis Management of Urban Change	1973	Journal of the American Institute of Planners, Vol. 39, No. 1, pp. 13 – 22.
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Course Outcome:

List of Exercises / Practicals:

- 1 Visit to Urban / Regional Planning and Development Authority and submit Report.

List of Assignments/Tests:

- 1 Test on Unit 1 and Unit 2.
- 2 Assignment on Unit 4.

ACTIVE LEARNING ASSIGNMENTS: Preparation of power-point slides, which include videos, animations, pictures, graphics for better understanding theory and practical work – The faculty will allocate chapters/ parts of chapters to groups of students so that the entire syllabus to be covered. The power-point slides should be put up on the web-site of the College/ Institute, along with the names of the students of the group, the name of the faculty, Department and College on the first slide. The best three works should submit to GTU.