

GUJARAT TECHNOLOGICAL UNIVERSITY

TECHNIQUES OF PLANNING – I

SUBJECT CODE:1025506

B.PLAN 2ND SEMESTER

Prerequisite: NA

Rationale: To study Basic Techniques of Planning.

Teaching and Examination Scheme:

Teaching Scheme			Credits	Examination Marks				Total Marks
L	Field work (T)	P	C	Theory Marks		Practical Marks		
				ESE(E)	PA (M)	PA (V)	PA(I)	
4	0	0	4	50	50	0	0	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
1	Techniques of Preparing Base Maps : Choice of appropriate scale for region and settlement level plans; town development plans, zonal development plans, layout plans; graphical, linear and areal scales; contents of base maps at various scales, notations -basic disciplines of maps; Measurement of Areas.	9	15%
2	Data Base for Planning and Socio -Economic Surveys : Data requirements for urban and regional planning; sources of primary and secondary data; questionnaire design, measurement scale and their application, sampling techniques, types of socio-economic surveys; self surveys, interviews, mailed questionnaires and observer participation.	9	25%
3	Physical Surveys : Techniques of conducting surveys for land use, building use, density, structural condition of buildings, heights of building, land utilization and physical features of land; Data requirement for various types of regional plans; Techniques for conducting regional surveys.	12	25%
4	Techniques of Graphic Presentation of Statistical Data : Tabulation of data, graphical presentation of data; pie diagrams,	9	17.5%

	histograms, bar charts, normal, semi-log and double log graphs and their uses; colour, black and white presentation techniques; basis disciplines of illustration and tables.		
5	Techniques of Graphic Presentation of Spatial Data : Land use classification, coding and analysis; residential and non-residential density patterns and analysis; colour, black and white presentation techniques; basis disciplines of illustration; Presentation of spatial data, analysis and proposals.	9	17.5%

Suggested Specification table with Marks (Theory):

Distribution of Theory Marks				
R Level	U Level	A Level	N Level	E Level
20	40	20	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:

1. Building Structures by James Ambrose, Wiley& Edition- Second.
2. Regional Planning: Concepts, Techniques Policies by R.P. Mishra, Concept Publishing & Edition-1992.
3. Community Analysis and Planning Techniques by Richard E. Klasterman, Rowman&Littlefield Publisher & Edition-1990.
4. Geospatial Techniques in Urban Planning by ShenZhesujiang, Sringer & Edition-2011.

Course Outcome:

After learning the course the students should be able to:

1. To learn the Methods and Contents of Preparation of Base Maps.
2. To learn different Database required for Planning and Socio-economic Survey Techniques.

List of Exercises / Practical:

Collection of data for any case study area and analyze and present the same in the Studio.

List of Assignments/Tests :

1. Test on Unit 1 and Unit 2.
2. Assignment on Unit 4 or Unit 5.

List of Open Source Software/learning website: NA