



GUJARAT TECHNOLOGICAL UNIVERSITY

Master of Engineering

Subject Code 3724802

Semester – II

Subject Name: Regional Planning

Type of course: Core Subject - IV

Prerequisite: Understanding on economics, industrialization, urbanization, concepts of migration and transportation planning

Rationale: Basic Understanding about improving the quality of cities and its various regions. Professional Planners assist communities, companies & governments to integrate the environmental, economic and social aspects of development from small sites up to whole regions.

Teaching and Examination Scheme:

Teaching Scheme			Credits C	Examination Marks				Total Marks
L	T	P		Theory Marks		Practical Marks		
				ESE (E)	PA (M)	ESE (V)	PA (I)	
3	0	2	4	70	30	30	20	150

Content:

Sr. No.	Content	Total Hrs
1	Concept of region, scope of regional plan Concept of Region, Types of Region, Classification of Regions, Delineation of Regions, Evolution of Regional plan and National Development, Scope, Objectives, Institutional framework for regional planning.	8
2	Techniques of regional analysis Introduction to regional analysis, regional linear programming, regional input-output analysis, factor analysis, industrial location theory, spatial diffusion theory, gravity analysis	12
3	Growth models Concept of growth pole and growth foci, core-periphery concept, role of settlements in regional development, urbanization and regional development, central place theory, Christaller Lohsch.	14
4	Patterns of regional development Role of resources in regional development, utilization of resources and environmental problems, sectoral and regional development and imbalances, multilevel planning, special area development plans. Balanced developed development national and state level planning mechanism.	6



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5	Special Case Regional planning in India, planning regions of India, district and block development plans, case studies of regional development planning in other countries. Special region plans. Students shall study such plans and prepare a comprehensive study review report individually and present the same for internal evaluation along with assignment.	14
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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
15	20	20	20	15	10

Legends: R: Remembrance; U: Understanding; A: Application, N: Analyze and E: Evaluate C: Create 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. Chand Mahesh and U. K. Puri, "Regional Planning in India", Allied Publishers, New Delhi, 1983.
2. Glassion John, "Introduction to regional planning", Hutchinson and MIT Press, Cambridge, 1996.
3. Insard Walter, "Methods of Regional Analysis - An introduction to Regional Science", MIT Press, Cambridge, 1960.
4. R.P. Mishra, "Regional Planning and Development in India", Vikas, Bombay, 1972.
5. K. V. Sundaram, "Urban and Regional Planning in India", Vikas Publishers, New Delhi.
6. Baleshwar Thakur et al; "Urban and regional development in India"; Volume I & II; Concept publishing Company; 2005; New Delhi (ISBN: 81-8069-197-7 Vol:1 and ISBN: 81-8069-198-5 Vol:2)
7. Dr. V. Nath; "Regional Development and Planning in India"; Concept publishing Company; 2009; New Delhi (ISBN: 978-81-8069-377-9)

Course Outcomes:

Sr. No.	CO statement	Marks % weightage
CO-1	After learning the course the students should be able to understand Fundamentals and Practicing of Regional Planning and Management	100

List of Experiments:

1. Graduate reports on different regional analysis and planning techniques and various growth models in regional planning are to be prepared in consultation with the faculty advisor and to be



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submitted in A4 paper size. The report is to be presented on scheduled date (individual report).

2. Students shall refer the books and reference materials and prepare answers to the assignment problems including the topics of syllabus.

Major Equipment: Computers with higher configuration and internet, server. DVR system with camera and hard drive for traffic studies

List of Open Source Software/learning website:

- Mumbai Metropolitan Region Development Authority (www.mmrda.maharashtra.gov.in/)
- Ministry of Urban Development (www.moud.gov.in)
- Gujarat Infrastructure Development Board (www.gidb.org)
- Google Books on Regional Planning
(https://www.google.co.in/search?tbm=bks&hl=en&q=Regional+Planning&gws_rd=ssl)