
UP204 INRASTRUCTURE PLANNING

Credits 3 (L=2, S=0, W=4)**INTERNAL ASSESSMENT (TERM WORK)****50 MARKS****UNIVERSITY EXAMINATION****50 MARKS****FOCUS:**

- Exploration of concept of urban and regional open space planning through the use of comparative case studies of cities in the Indian and global context.
- Typologies of urban Landscapes are developed based on their disposition in response to a multiplicity of influences and their perceptual qualities of spatial definition.
- Understand inter-relationships between urban form and Urban transportation systems.

CONTENTS:

- Role of transport in national development – physical, economic, social, political and cultural.
- General appreciation of traffic and travel characteristics with reference to case studies.
- Traffic surveys: Formulation objectives, identifying ouUPuts, designing survey formats.
- Appreciation of importance of parking in transportation system planning.
- Structural properties of Network (Accessibility, connectivity, circuitry).
- Environmental impact of Transport projects; Noise, Air pollution and severance.
- Transport system Management (TSM) Plan: need and objectives, methodology, Techniques, institutional framework.
- Mass Transit Systems: Feasibility, economic appraisal, operational characteristics, planning and Management.
- Water Resources Management and distribution, Conservation, Sewerage, solid waste disposal and recycling systems.
- Power supply and Street Lighting systems,
- Social infrastructure planning - health – education, Tele communications, security, fire safety, other misc. facilities such as Milk bars, Petrol and Gas station, etc.

REFERENCES :

Sr. No.	Title	Author
01.	Highway Engineering	S.K. Khanna & C.G. Justo
02.	Traffic and Transportation Planning	Dr.L.R. Kodiyali
03.	Introduction to Transport Planning	Barton M.J.
04.	Traffic in Town	Colin Buchanan
05.	Principles of Urban Transportation	B.G. Hutchison
06.	Urban Traffic: A Function of Land Use	Mitchell R.B. Rapkin C.
07.	Urban Mobility in Developing Countries	P.G. Patankar
08.	Public streets for public use	Anne Vernez Moudon
09.	Environmental Engineering	Howard S. Teary Donald R. Rowe George Tchobanoglous
10.	Manual on Municipal Solid Waste Management	Government of India, Ministry of Urban Development May- 2003-21004
11.	Guidelines for Environmental Impact Assessment of Highway Projects	Indian Road Congress – 104 New Delhi.
12.	Environmental Science & Engg.	J. G. Hewry & G.W. Heinke
13.	Environmental Analysis for Land Use & Site Planning	M. Marsh , MC Graw Hill Co.