

GUJARAT TECHNOLOGICAL UNIVERSITY

Transportation system Engineering

M.E. Semester: IV

Subject Code: 741901

Subject Name: **Multimodal Transportation System Planning and Management**

Course Objectives:

To make the student aware of the technological aspects of Multi Model Transport System (MMTS), analysis, Planning and design methodologies.

Sr. No.	Course Content
1.	Transportation scenario, Technology Vision – 2020, Sustainable Transport, Public transportation, Multi model transport technology, MRTS, LRT, Street Car, Sky train, BRTS, Multiple modes. Four stages transportation planning, Behaviour analysis, Multinomial and nested logit models, Revealed and stated preference. Planning of multi modal transport system for Indian cities. Design of integrated network, Parking facilities, Land use, Terminal/Station area development, Operating strategy of public transport system. Mass Transportation System in Indian Cities, Case Study.

Reference Book:

1. Vuchic, V.R. “Urban Public Transportation System and Technology”, Prentice Hall Inc., New Jersey, 1981
2. Agarwal, M.K., “Urban Transportation in India”, INAE, Allied Publishers, New Delhi, 1996.
3. Simpson, B.J., “Urban Public Transport Today”, Chapman and Hall, London U.K., 1994
4. White Peter, “Public Transport – Its Planning, Management and Operation”, UCL Bros. 1995.
5. GoI, National Urban Transport Policy