

GUJARAT TECHNOLOGY UNIVERSITY

M.Tech.(Civil)Transportation System Engineering

Syllabus

2 : TRAFFIC ENGINEERING AND FIELD STUDIES

Course Objectives :

The contents of this course have been developed in such a manner, so that trained students may contribute to the design, operation and maintenance of a safe and efficient transportation system. The course content shall enrich the students with the knowledge for assessing traffic engineering problems quantitatively.

Course Contents :

Introduction. Traffic Characteristics, Traffic Studies. Traffic Controls and Operations. Planning and Administration, New Technologies.

Pre-requisite : Nil

Reference Books :

1. Mc Shane, W.,R. and Roes, R.P. "Traffic Engineering", Prentice Hall, Englewood Cliffs, New Jersey 1990.
2. Pignataro, L J., "Traffic Engineering : Theory and Practice" Prentice Hall, Inc., Englewood Cliffs, New Jersey, 1973
3. Matson, T.M., Smith, W.S., and Hurd, F.W., "Traffic Engineering" McGraw Hill Book Company, Inc. New York
4. Kadiyali L. R., "Traffic Engg. & Transport Planning", Khanna Publishers, Delhi-6

Practical:

To achieve the objective the following practical will be conducted;

1. Traffic volume studies
2. Spot –speed studies
3. Moving car method observations
4. Parking studies
5. Origin –Destination studies
6. Problems related to traffic engineering
7. Desire line diagrams.
8. LOS study using VRT
9. Semester problem