

# GUJARAT TECHNOLOGY UNIVERSITY

M.Tech.(Civil)Transportation System Engineering

Syllabus

## **Interdisciplinary Elective2 : ROAD SAFETY**

### Course Objective:

With the advent of revolution in motorization the developing countries have increasingly been witnessed roads as death traps. The prime objective is to make aware the global road accident scenario-country/region specific problems and evolve strategies for minimizing the incidence of road accidents.

### Course Content:

Overview of road safety, global road safety scenario in 21<sup>st</sup> century, vulnerable road users, safety for children, road accident data recording, road safety measures and evaluation – engineering (road safety audit and transport planning vis-à-vis safety), enforcement (traffic control regulation and driver training and testing) and education (mass educational campaign for safety consciousness, marketing of road safety) measures, road safety management, road safety policy and biomechanics (post injury management, hazards reduction). Accident costing and insurance. Safety devices, standards and specifications.

### Ref:

- 1) Kadiyalli, L.R. (2000) “ Traffic Engineering and Transportation Planning”, Khanna publishers, Delhi.
- 2) Mike Slinn, Peter Guest and Paul Matthews-“Traffic Engineering Design-Principles and Practice”, published by Elsevier, New Delhi.