

GUJARAT TECHNOLOGICAL UNIVERSITY

M.E. Semester: III

Transportation System Engineering

Subject Name: **HIGHWAY SAFETY AUDITS (Major Electives – IV)**

Sr.No	Course content
1.	<p>Introduction to road safety engineering, role of road safety policy, road safety plans, causative factors in accidents, biomechanics of accidents and crashworthiness (frequency and nature of injuries, biomechanics of impact, injury severity scaling, vehicle crashworthiness) collision analysis and effective road safety engineering, education and enforcement measures for accident reduction. Estimating accident savings and economic benefits of it.</p> <p>Procedures in road safety audit, design standards, audit tasks, stages of road safety audit, key legal aspects. Road design issues in RSA's. Structuring RSA report.</p>