

Department: Civil & Environmental Engineering
Level and Major: Graduate- Transportation Engineering

Division: Civil engineering

Course Title: Safety traffic engineering

Number of Credits: 3

Prerequisite (Corequisite): Structural analysis (I), Concrete Technology **Lecturer: -**

Course Topic

- **Defining road safety issues includes:** introduction, accident statistics analysis, optimal design compared to committee design
- **Safety enhancement programs include:** identifying problematic locations, evaluating and selecting options, implementing, evaluating implemented options
- **Geometric design includes:** driver expectation, design compliance, horizontal arcs and friction coefficient, vertical arcs, cross section, intersections, exchanges
- **Traffic planning and performance includes:** safety in design, safety in public transportation, pedestrian crossing, network lighting, road and rail intersection, safety in the construction and maintenance of sign design and road marking
- **Traffic guards(guard rail, shock absorber, design)**
- **Safety in air, rail and sea transport**

Course Description:

Reading Sources:

Course Goals and objectives:

Evaluation:

Course topics:

The course aims to: