Study program: Road Traffic Safety

Course title: Analysis of Traffic Safety

Professor/assistant: PhD Dejan S. Bogicevic

Type of course: compulsory

ECTS credits: 7

Pre-requisites: completed exam from *Traffic Safety* on basic studies

Aim of the course

To obtain concrete theoretical and practical knowledge for application of methods in traffic safety, analysis of the level of traffic safety, analysis of traffic accidents, and measurements of social interventions in view of increasing the safety of traffic in a specific area.

Learning outcomes

Upon completion of the course and after taking the exam, the student is capable of:

- defining the methods used in analysis of traffic safety,
- mastering the technique for conducting certain methods for the analysis of traffic safety,
- formulating and analyzing the measurements in traffic safety,
- analyzing, formulating and comparing the levels of traffic safety on micro and macro locations,
- determining public and traffic risks in the area of traffic safety,
- creating and proposing measures of social intervention in view of increasing the safety of traffic,
- monitoring and analyzing the effects of certain measures on traffic safety.

Syllabus

Theoretical part:

Methods used in the analysis of traffic safety (Experiment, Statistical method, Survey/interview, Subjective method/conflict technique). Techniques for conducting certain methods in the analysis of traffic safety. Comparison analysis of the level of traffic safety in a specific area. Public and traffic risk in the area of traffic safety-risk maps. Measures of social interventions in view of increasing the safety of traffic. Follow up and the analysis of effects that certain measures have on traffic safety. The importance of campaigns in view of increasing the level of traffic safety in a specific area.

Practical part:

Auditory classes accompany the theoretical lectures. Within the course, it is planned to do a seminar paper-*Statistical processing of traffic accidents on a specific location* in view of analyzing the state of traffic safety. Procedures for graphical representation of data on traffic accidents. Determining the level of risk in road traffic at a specific area in the form of a project task. Application of specialized computer porograms used in the analysis of traffic safety. Searching for adequate materials on the internet. Visits to the representatives of economy.

Literature

1. Inic M.: *Bezbednost drumskog saobracaja*, FTN, Novi Sad, 2002.
2. Lipovac K.: *Bezbednost saobracaja*, Sluzbeni list SRJ, Beograd, 2008.
3. Vujanic M.: *Zbirka resenih zadataka iz bezbednosti saobracaja*, SF, Beograd, 2006.
4. Pantazijevic S.: *Bezbednost saobracaja*, MUP Srbije, VSUP, Zemun 2003.
5. Proceedings: *Uloga lokalne zajednice u bezbednosti saobracaja*, KPA, Beograd, 2012

Number of active classes			Other forms of teaching:
Lectures: 4	Practical classes: 3	Research work:	

Teaching methods

Teaching is delivered in the form of lectures, auditory, computational and graphical classes, as well as individual and team presentations. Within the course, it is planned the preparation of a seminar paper-individual and group projects in which students will apply the obtained knowledge in solving practical problems.

Grading system (maximum 100 points), grading scale from 5 to 10: below 51 points grade 5, grade 6 from 51-60 points, grade 7 from 61-70 points, grade 8 from 71-80 points, grade 9 from 81-90 points, grade 10 from 91-100 points.

Pre-exam obligations	**points**	**Final Exam**	**points**
activity during theoretical lectures	**10**	written exam	**-**
practical training	**10**	oral exam	**50**
colloquium(s)/seminar papers	**20/10**		
Sum	**50**	**Sum**	**50**