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| Study program: | Road Traffic | | |
| Course title: | Traffic Psychology | | |
| Professor/assistant: | Vesko Lukovac/Vladimir Popović | | |
| Type of course: | elective | | |
| ECTS credits: | 6 | | |
| Pre-requisites: | - | | |
| Aim of the course | | | |
| Aim of the course is to study driver behavior, psychological processes that underlie this behavior and its relationship to traffic accidents. Knowing different needs of road users which can lead to the reduction and elimination of unsafe behavior of road users. | | | |
| Learning outcomes | | | |
| Upon completion of this course and after passing the exam, the student is able to: | | | |
| <ul style="list-style-type: none"> – identify problems in the field of transport as a consequence of human factors, – use theoretical models in design of appropriate countermeasures and assess their effectiveness, – use quantitative and / or qualitative methods in the analysis of problems in the field of traffic safety, – conduct empirical research (from setting the problem to the analysis of results, drawing conclusions, and applying the results of research to specific problems). | | | |
| Syllabus | | | |
| <i>Theoretical part</i> - Introductory considerations concerning the analysis of the driving task and system elements. Basic psychological processes (perception, illusions, hallucinations). The impact of the characteristics of road vehicles on the perception and the adaptation of speed. Analyzing sensory, psychomotor and mental abilities. The impact of the traffic situation, experience, fatigue, alcohol, and pharmacological agents and devices in the vehicle to the eye movements. Individual differences (personality, emotions, stress, motivation, self-assessment, risk-taking, social factors, attitudes, gender differences, experience, motor control and its change due to age. Driving under the influence of alcohol and drugs. Age, behavior, temperament and character of the driver, vehicle design (ergonomics, electronic equipment in the vehicle). Theory of accidents, causes of traffic accidents (classification), driver training (pedagogical aspects, information campaigns, counseling, re-education of drivers with violations and accidents). | | | |
| <i>Practical part</i> - Analyze and recognize real situations in everyday life that can lead to accidents. This course envisages preparation of seminar papers related to the behavior of all road users on specific intersections, pedestrian crossings and permanent ways. | | | |
| Literature | | | |
| 1. Milošević S.: Saobraćajna psihologija, Naučna knjiga Beograd, Beograd, 1997. (in Serbian) | | | |
| 2. Milošević S.: Percepcija, pažnja i motorna aktivnost, Zavod za udžbenike Beograd, Beograd, 2002. (in Serbian) | | | |
| 3. Milošević S.: Čovek i saobraćajna buka, Saobraćajni fakultet Beograd, Beograd, 2005. (in Serbian) | | | |
| Number of active classes | | | Other forms of teaching: |
| Lectures: 30 | Practical classes: 30 | Research work: | |
| Teaching method | | | |
| Classes are held in the form of lectures, auditory, computational and graphical exercises, individual and team presentations. This course asks for preparation of Essay - individual and group projects in which students apply their knowledge to solve 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 | 50 |
| practical training | 10 | oral exam | |
| colloquium(s)/seminar papers | 30 | | |
| Sum | 50 | Sum | 50 |

