

Study program: Road Traffic Engineering			
Course title: Traffic and Sustainable Development			
Professor/assistant: Dragan Rajković			
Type of course: Elective			
ECTS credits: 6			
Prerequisites: none			
Aims of the course: The students acquire knowledge about the impact of transportation processes on the environment and define measures for managing environmental protection.			
Learning outcomes: After passing the course, the student will be able to describe the elements of an impact of transport processes on the environment, define influences in an assessment study, compare standards and legal and technical regulations.			
Syllabus: <i>Theoretical part:</i> The impact of transport on the environment on local, regional, and global level. Ecological effects of transportation processes in the system. Defining and applying models of environmental protection to reduce the impact of transport. Sustainable development of transportation systems. Overview of law regulation and international standards regarding the emission of exhaust fumes and noise level created by motor vehicles. <i>Practical part:</i> Environmental pollution and development of the system for managing environmental protection. Studies on the assessment of an impact of transport on the environment. Software for tracking distribution of pollutants in the system.			
Literature: V. Vuchic, Transportation for Livable Cities, Rutgers Center for Urban Policy Research, 1999; D. Appleyard, Livable streets, University of California Press Barkley, 1981. A. Alexandre, Road traffic noise, London, 1992. D. Holsken, K. Vollmer, Forshung Stadtverkehr, Bonn, 1992. G. Beara, Planiranje, saobraćaj, ekologija, Arkade print, Beograd, 1995.			
Total number of active classes: 60		Lectures: 30	Practical classes: 30
Teaching methods: Lectures, exercises, case studies and simulations.			
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	max 5	Oral exam	50
Practical training	max 5		
Written test(s)	max 20		
Term papers	max 20		
Minimum requirement for the final exam	30		