

Study program: Road Traffic Management			
Course title: Intelligent Systems in Traffic and Transportation			
Professor/assistant: Nenad Milutinović, Vladimir Milićević			
Type of course: Compulsory			
ECTS credits: 7			
Prerequisites: none			
Aims of the course: The students acquire knowledge about modern information and communication technologies and models, and how to implement them in traffic systems.			
Learning outcomes: After passing the exam, the student will have theoretical and practical knowledge about intelligent systems in traffic and transportation. Students will know how to apply intelligent systems in different conditions.			
Syllabus: Traffic and transport and information & communication technologies. Intelligent systems in traffic modeled on modern technologies (GIS, GPS, GSM, RFID). Characteristics of different intelligent systems in traffic (systems for positioning transport means, control and management systems, systems of signaling devices, robotic systems). Implementation of intelligent systems in traffic and transport. The effects of implementation of intelligent systems on the realization of processes and system management in traffic. European and global projects.			
Literature: 1. Pavle Gladović, Vladimir Popović: Savremene informacione tehnologije u drumskom transportu, Fakultet tehničkih nauka, Novi Sad, 2010. 2. Pavle Gladović, Milan Simeunović: Sistemi javnog autotransporta robe, Fakultet tehničkih nauka, Novi Sad, 2004.			
Total number of active classes: 6		Lectures: 3	Practical classes: 3
Teaching methods: Lectures: interactive approach Practical training: term papers, research paper, experimental work. Consultations.			
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 lectures	10	Oral exam	50
Written tests	20		
Term paper	20		
Minimum requirement for the final exam	30		