

Study program: Road Traffic			
Course title: Road Traffic Technology			
Professor/assistant: Pavle V Gladovic/Dušan Radosavljević			
Type of course: compulsory			
ECTS credits: 8			
Pre-requisites:			
Aims of the course Acquisition of necessary and concrete knowledge about the dimensioning of transport capacities, transport roads, vehicle fleet meters and costs. Finding and applying the optimal way of connecting transport means, transport objects, and labor in technologically optimal and organized transport processes.			
Learning outcomes Upon completing the course and after taking the exam, the student is able to: <ul style="list-style-type: none"> - define the basic characteristics and the role of road transport of goods - define the conditions for the realization of services in the road transport of goods - define vehicle characteristics and conditions for realization of certain transport requirements - define indicators, meters and analyze the results of the operation of a vehicle and a vehicle fleet - create reports on the operation of the vehicle fleet. 			
Syllabus <u>Theoretical part:</u> Road transport of goods: basic concepts and characteristics. Market access and activity. The market of goods transport. Characteristics of transport requirements. Basic processes and sub-processes of the transport of goods. The process of service realization. Specificity of individual transport services. System of indicators and workload of the vehicle fleet. Transport operation and productivity. Analysis of work results and benchmarking. The cost of exploitation of vehicles in road transport. Goods and goods flows. Classification of goods. Basic characteristics of international and long-distance passenger bus transit routes. Research and study of passenger flow characteristics. Bus Operators. <u>Practical part:</u> Practical exercises follow theoretical lessons. Computational exercises: indicators and measures of operation of the vehicle fleet, criteria for the selection of the transport route. Selection of roads and vehicles. Calculation of the required capacity. Operational planning. Project development (case study). Visits to transport companies. Presentation of seminar papers.			
Literature <ol style="list-style-type: none"> 1. Gladović P, Tehnologija drumskog saobraćaja, Fakultet tehničkih nauka, Novi Sad, 2010. 2. Glumac S, Žeželj S, Gladović P, Nijemčević S, Projektovanje, proizvodnja i eksploatacija autobusa Ikarbus AD, Beograd, 2002. 3. Gladović P, Zbirka rešenih zadataka iz tehnologije drumskog transporta, PC Program, Beograd, 2000. 			
Number of active classes			Other forms of teaching:
Lectures: 3	Practical classes: 4	Research work:	
Teaching methods Teaching is carried out in the form of lectures, auditory, calculating and graphic exercises, individual and team presentations. The course envisages the preparation of seminar papers - individual and group project in which students will apply the acquired knowledge for 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	25
practical training	10	oral exam	25
colloquium(s)/seminar papers	20/10		
Sum	50	Sum	50