

Study program: Road Traffic			
Course title: Traffic Planning			
Professor/assistant : Pavle Gladovic/Vladimir Popović			
Type of course: elective			
ECTS credits: 7			
Pre-requisites:			
Aims of the course Acquiring the necessary and specific knowledge on the methodology and procedures for transportation planning, and obtaining knowledge on the research and analysis of the formation, spatial and temporal distribution of the transportation demand of passenger and cargo flows characteristic of transport capacity, means of transport and transport infrastructure.			
Learning outcomes By completion of this course and after passing the exam, the student is able to: <ul style="list-style-type: none"> – organize and conduct research in transport, – analyze and define the state of the traffic system, – participate in the development of spatial and urban plans, – prepare basic data for studies of transport, – do the modeling, procedures, analyses and forecasts for transport demand and supply. 			
Syllabus <u>Theoretical part:</u> The general methodology of transportation planning. The hierarchy of plans. Traffic demand - demand determination, information systems and database creation, counting and surveys, temporal and spatial characteristics of transport demand. Traffic offer - the ability to transport vehicles, individual transport systems, public passenger transport, freight transport systems. Transport networks - categorization and functional classification, rural networks, city networks, capacity and level of service. Prediction and modeling of transport needs. Basis of valuation of alternative development. Current research in the field of transportation planning. <u>Practical part:</u> Practical exercises follow the theoretical classes. The students do tasks in all areas covered by the subject based on the collection of tasks in transportation planning. Throughout the course, the task is given in the field of prediction of models for transportation needs. In the computer lab, students do tasks related to transportation and process research data relevant to the information base with the help of software packages from the database. Visits to the economy.			
Literature <ol style="list-style-type: none"> 1. Jovanovic N.: Traffic Planning, Faculty of Traffic and Transport Engineering Belgrade, Belgrade, 1990. 2. Jovic J: Traffic Planning in Cities, Faculty of Traffic and Transport Engineering Belgrade, Belgrade, 1996. 3. Maletin M. Traffic Planning and Spaces, Building book, Belgrade, 2004. 			
Number of active classes			Other forms of teaching:
Lectures: 45	Practical classes: 45	Research work:	
Teaching methods Classes are held in the form of lectures, auditory, computational and graphical exercises, individual and team presentations. This course asks for preparation of seminar paper - 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	25
practical training	10	oral exam	25
colloquium(s)/seminar papers	20/10		
Sum	50	Sum	50