

Study program:	Civil Engineering		
Level of study:	Undergraduate academic studies		
Course title:	TRAFFIC INFRASTRUCTURE AND SPACE		
Teacher:	Igor Jokanović		
Course Status:	Core		
Credits (ECTS):	6		
Prerequisite:	N/A		
Course objective(s):	Acquiring basic knowledge about the general characteristics of the development of transport and traffic infrastructure. Study of the basic settings of development of transport networks and settlements, and the interdependence of traffic and space.		
Course outcome(s):	The realization of the planned objectives.		
Course Content:			
1 st week	Introductory lecture. Introduction to basic concepts of traffic and space. Macro-indicators of changes in the field of transport.		
2 nd week	Spatial development and transport basis. Alternatives of spatial development. Interdependence traffic-space.		
3 rd week	Fundamentals of analyses and forecasts. Data models. Indicators of land use. Indices of content intensity.		
4 th week	Transport networks.		
5 th week	Transport networks.		
6 th week	Models and methods of analysis and forecast of traffic. Basics of regression. Time series.		
7 th week	Other methods of prognosis, choice models.		
8 th week	Traffic demand. Causes of demand and the primary influences on demand. Mobility. Degree of motorization.		
9 th week	Demand survey. Traffic counting. Polling.		
10 th week	Temporal and spatial concentration of demand.		
11 th week	Traffic supply, vehicles. Defining the capacity of traffic infrastructure.		
12 th week	Transport networks and supply. General characteristics. Connections of urban and interurban networks.		
13 th week	Transportation planning process. Basics of the planning process. Forecast model of traffic demand.		
14 th week	Spatial distribution of trips. Gravity model.		
15 th week	Network loading.		
Literatura:	1. Maletin, M., Planiranje saobraćaja i prostora, Građevinski fakultet Univerziteta u Beogradu, Beograd, 2004.		
Number of hours:			Other classes: 0
Lectures: 2	Exercises: 2	Other forms of teaching: 0	Individual research work: 0
Teaching methods: lectures, exercises, colloquiums, consultations			
Evaluation of knowledge (maximum 100 points)			
Pre-exam activities	points	Final exam	points
Activity during the lectures	5	Written exam	00
Activity during the exercises		Oral exam	25
Term paper	20	-	-
Colloquia	50 (2 x 25)		