

Study program:	Civil Engineering		
Level of study:	Undergraduate academic studies		
Course title:	URBAN TRAFFIC INFRASTRUCTURE		
Teacher:	Igor Jokanović		
Course Status:	Core		
Credits (ECTS):	4		
Prerequisite:	Basics of Traffic Infrastructure		
Course objective(s):	Acquiring basic knowledge in urban traffic infrastructure.		
Course outcome(s):	The realization of the planned objectives.		
Course Content:			
1 st week	Urban transport systems (classification and basic characteristics, functional classification of urban road network, spatial models, classification of public transport systems).		
2 nd week	Program requirements for the design of urban traffic infrastructure (traffic load, capacity, level of service for road sections, public transport and pedestrian paths). Representative speed and representative vehicles.		
3 rd week	Design elements of primary road network (selection and dimensioning of cross section).		
4 th week	The elements of layout plan (circular and transition curve, carriageway widening, sight distance).		
5 th week	Elements of leveling plan, cross section grades and carriageway superelevation.		
6 th week	Intersections (functional classification, principles of grade separated intersections design, functional classification of at grade intersections).		
7 th week	At grade intersections. Methods of creating the layout and leveling plan - application in the design. Specific elements for other modes of transport at interchanges.		
8 th week	Secondary road network (planning basics for traffic calming, design elements for access streets, intersections and turn points).		
9 th week	Parking (planning basics for stationary traffic and principles of capacity planning, classification of the parking lots).		
10 th week	Design standards and elements of parking lots, surface parking lots, parking garages.		
11 th week	Signaling (horizontal and vertical signalization, traffic lights, basics of dimensioning).		
12 th week	Calculation of traffic lights, equipment elements and installation.		
13 th week	Equipment for urban traffic infrastructure (curbing, paving elements, typical solutions and proposals, drainage of urban infrastructure, basis for dimensioning and calculation procedures).		
14 th week	Standard solutions, utility installation and arrangement setup, joint arrangement.		
15 th week	Submission of designs and preparation for the final exam.		
Literature:	<ol style="list-style-type: none"> Maletin, M., Planiranje saobraćaja i prostora, Građevinski fakultet, Beograd, 2004. Maletin, M., Planiranje i projektovanje saobraćajnica u gradovima, Orion art, Beograd, 2005. 		
Number of hours:	Other classes: 0		
Lectures: 2	Exercises: 2	Other forms of teaching: 0	Individual research work: 0
Teaching methods: lectures, exercises, design, colloquiums, consultations			
Evaluation of knowledge (maximum 100 points)			
Pre-exam activities	points	Final exam	points
Activity during the lectures	5	Written exam	-
Activity during the exercises		Oral exam	25
Design	20	-	-
Colloquia	50 (2 x 25)	-	-