

### Faculty of Civil Engineering / INFRASTRUCTURES / URBAN COMMUNICATIONS

<b>Course:</b>	URBAN COMMUNICATIONS			
<b>Course ID</b>	<b>Course status</b>	<b>Semester</b>	<b>ECTS credits</b>	<b>Lessons</b> (Lessons+Exercises+Laboratory)
11955	Mandatory	3	5	2+1+1
<b>Programs</b>	INFRASTRUCTURES			
<b>Prerequisites</b>	Geodesy Roads			
<b>Aims</b>	Acquiring basic knowledge of Urban Roads.			
<b>Learning outcomes</b>	After passing this exam, the student will be able to: 1. Understand the classification of urban roads, their differences, application conditions. 2. Understand the design methodology of urban roads. 3. Apply knowledge to the specific task of the preliminary design of the intersection.			
<b>Lecturer / Teaching assistant</b>	dr Biljana Ivanović - Associate Professor mr Teodora Popović - Teaching Associate			
<b>Methodology</b>	Lectures, exercises, graphic work, colloquium and consultations.			
<b>Plan and program of work</b>				
Preparing week	Preparation and registration of the semester			
I week lectures	City and traffic.			
I week exercises	City and traffic.			
II week lectures	Urban traffic systems (classification and basic characteristics, functional classification of the urban road network, spatial models, classification of public transport systems).			
II week exercises	Urban traffic systems (classification and basic characteristics, functional classification of the urban road network, spatial models, classification of public transport systems).			
III week lectures	Program and design conditions for the design of urban roads (traffic load, capacity, level of service of road sections, public transport and pedestrian paths). Relevant speeds and relevant vehicles.			
III week exercises	Program and design conditions for the design of urban roads (traffic load, capacity, level of service of road sections, public transport and pedestrian paths). Relevant speeds and relevant vehicles.			
IV week lectures	The design elements of the roads of the primary road network.			
IV week exercises	The design elements of the roads of the primary road network.			
V week lectures	Interchanges (grade-separated junctions).			
V week exercises	Interchanges (grade-separated junctions).			
VI week lectures	Intersections (at-grade junctions).			
VI week exercises	Intersections (at-grade junctions).			
VII week lectures	Colloquium II.			
VII week exercises	Colloquium II.			
VIII week lectures	Roundabouts.			
VIII week exercises	Roundabouts.			
IX week lectures	Roads of the secondary traffic network (planning basics of traffic calming, design elements of access roads, intersections and turnstiles).			
IX week exercises	Roads of the secondary traffic network (planning basics of traffic calming, design elements of access roads, intersections and turnstiles).			
X week lectures	Parking (planning basics of stationary traffic and principles of capacity planning, classification of parking lots).			
X week exercises	Parking (planning basics of stationary traffic and principles of capacity planning, classification of parking lots).			
XI week lectures	Design standards and elements of parking lots, at-grade parking lots, parking garages.			
XI week exercises	Design standards and elements of parking lots, at-grade parking lots, parking garages.			
XII week lectures	Accompanying equipment (curbs, drainage, utility installations, lighting).			
XII week exercises	Accompanying equipment (curbs, drainage, utility installations, lighting).			

XIII week lectures	Signalization (horizontal and vertical signalization, light signaling, basics of dimensioning).					
XIII week exercises	Signalization (horizontal and vertical signalization, light signaling, basics of dimensioning).					
XIV week lectures	Methodology of designing roads in cities.					
XIV week exercises	Methodology of designing roads in cities.					
XV week lectures	Colloquium II.					
XV week exercises	Colloquium II.					
<b>Student workload</b>	Weekly 6.0 credits x 40/30 = 8 hours Total workload on the subject 6.0x30 =180hours					
<b>Per week</b>			<b>Per semester</b>			
<b>5 credits x 40/30=6 hours and 40 minuts</b> 2 sat(a) theoretical classes 1 sat(a) practical classes 1 excercises <b>2 hour(s) i 40 minuts</b> of independent work, including consultations			Classes and final exam: <b>6 hour(s) i 40 minuts x 16 =106 hour(s) i 40 minuts</b> Necessary preparation before the beginning of the semester (administration, registration, certification): <b>6 hour(s) i 40 minuts x 2 =13 hour(s) i 20 minuts</b> Total workload for the subject: <b>5 x 30=150 hour(s)</b> Additional work for exam preparation in the preparing exam period, including taking the remedial exam from 0 to 30 hours (remaining time from the first two items to the total load for the item) <b>30 hour(s) i 0 minuts</b> Workload structure: <b>106 hour(s) i 40 minuts (courses), 13 hour(s) i 20 minuts (preparation), 30 hour(s) i 0 minuts (additional work)</b>			
<b>Student obligations</b>			Attendance in lectures and exercises, doing graphic work, passing colloquiums.			
<b>Consultations</b>			According to the schedule defined at the beginning of the semester.			
<b>Literature</b>			M. Maletin: Gradske saobraćajnice			
<b>Examination methods</b>			- attendance in lectures and exercises from 1 do 3 poens (student gets 1 poen fr 70% of attendance) - graphic work from 7 to 27 poens - two colloquiums 2x20 poens - final exam up to 30 poens - students pass this subject if the cumulative number of points is 50 poens.			
<b>Special remarks</b>						
<b>Comment</b>			Additional information about the subject can be obtained from the subject teacher, associate, head of the study program and from the Vice Dean for Teaching.			
<b>Grade:</b>	F	E	D	C	B	A
<b>Number of points</b>	less than 50 points	greater than or equal to 50 points and less than 60 points	greater than or equal to 60 points and less than 70 points	greater than or equal to 70 points and less than 80 points	greater than or equal to 80 points and less than 90 points	greater than or equal to 90 points