

Faculty of Civil Engineering / INFRASTRUCTURES / TRAFFIC PLANNING AND SYSTEMS

Course:	TRAFFIC PLANNING AND SYSTEMS			
Course ID	Course status	Semester	ECTS credits	Lessons (Lessons+Exercises+Laboratory)
11953	Mandatory	3	5	2+1+1
Programs	INFRASTRUCTURES			
Prerequisites				
Aims	Acquiring basic knowledge of planning and traffic systems.			
Learning outcomes	After passing this exam, the student will be able to: 1. Analyze and forecast traffic flows. 2. Plan different aspects and hierarchical levels of transport infrastructure systems.			
Lecturer / Teaching assistant	dr Biljana Ivanović - Associate Professor mr Teodora Popović - Teaching Associate			
Methodology	Lectures, exercises, graphic work, colloquium and consultations.			
Plan and program of work				
Preparing week	Preparation and registration of the semester			
I week lectures	Basic parameters of traffic flow.			
I week exercises	Basic parameters of traffic flow.			
II week lectures	Procedures and devices for measuring traffic flow.			
II week exercises	Procedures and devices for measuring traffic flow.			
III week lectures	Characteristics of the traffic flow.			
III week exercises	Characteristics of the traffic flow.			
IV week lectures	Time unevenness of traffic flow.			
IV week exercises	Time unevenness of traffic flow.			
V week lectures	Relationships between the basic parameters of the traffic flow.			
V week exercises	Relationships between the basic parameters of the traffic flow.			
VI week lectures	Capacity and level of service on highway.			
VI week exercises	Capacity and level of service on highway.			
VII week lectures	Capacity and level of service on two-lane roads.			
VII week exercises	Capacity and level of service on two-lane roads.			
VIII week lectures	Colloquium I.			
VIII week exercises	Colloquium I.			
IX week lectures	Capacity of priority intersections.			
IX week exercises	Capacity of priority intersections.			
X week lectures	Capacity on roundabouts.			
X week exercises	Capacity on roundabouts.			
XI week lectures	Capacity on signalized intersections.			
XI week exercises	Capacity on signalized intersections.			
XII week lectures	The basics of the traffic planning process in cities.			
XII week exercises	The basics of the traffic planning process in cities.			
XIII week lectures	Sustainable development of transport in cities.			
XIII week exercises	Sustainable development of transport in cities.			
XIV week lectures	Traffic planning models.			
XIV week exercises	Traffic planning models.			
XV week lectures	Colloquium II.			
XV week exercises	Colloquium II.			

Student workload		Weekly 5 credits x 40/30 = 6 hours and 40 minutes Total workload on the subject 5x30 =150hours				
Per week		Per semester				
5 credits x 40/30=6 hours and 40 minutes 2 sat(a) theoretical classes 1 sat(a) practical classes 1 excercises 2 hour(s) i 40 minutes of independent work, including consultations		Classes and final exam: 6 hour(s) i 40 minutes x 16 =106 hour(s) i 40 minutes Necessary preparation before the beginning of the semester (administration, registration, certification): 6 hour(s) i 40 minutes x 2 =13 hour(s) i 20 minutes Total workload for the subject: 5 x 30=150 hour(s) 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) 30 hour(s) i 0 minutes Workload structure: 106 hour(s) i 40 minutes (courses), 13 hour(s) i 20 minutes (preparation), 30 hour(s) i 0 minutes (additional work)				
Student obligations		Attendance in lectures and exercises, doing graphic work, passing colloquiums.				
Consultations		According to the schedule defined at the beginning of the semester.				
Literature		M. Maletin: Planiranje i projektovanje saobraćajnica u gradovima.				
Examination methods		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.				
Special remarks						
Comment		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.				
Grade:	F	E	D	C	B	A
Number of points	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