

### DESCRIPTION OF A STUDY COURSE – SYLLABUS

<b>Title of a course</b>	Infrastructure Planning in Road Transport				
<b>Head of course</b>	PhD Ivica Barišić, College Professor				
<b>Study programme</b>	Specialist professional graduate study Transport				
<b>Status of a course</b>	Obligatory				
<b>Year of study</b>	2.	<b>Semester</b>	III	<b>ECTS credits</b>	5
<b>Teaching plan (L + E + S+ Pr)</b>	2+0+2+0				
<b>Goals of a course</b>					
<p>The main objective of the course is to familiarize students with the relevant parameters in the forecasting and design of transport infrastructure, to search for the optimal model of traffic, and to familiarize themselves with the methodology of spatial traffic studies for transport infrastructure objects. The second objective of the course is: to get acquainted with the basic elements in road infrastructure planning and design, to familiarize yourself with national regulations, rules and guidelines in the field of road infrastructure planning and design</p>					
<b>Conditions for enrolling course</b>					
No conditions					
<b>Learning outcomes on a level of a study programme which includes course</b>					
<p>Outcome 1: Apply traffic models and methods when designing a traffic plan.          Outcome 2: Apply international, European and national legislation in the implementation of technological and service processes in the field of road transport.          Outcome 4: Offer solutions for transport system planning based on sustainable development principles.          Outcome 5: Manage and lead road transport development activities.          Outcome 7: Select information technology and software to address specific transport system problems.          Outcome 8: Plan road infrastructure solutions based on traffic research results.          Outcome 13: Manage communication and collaboration processes in different social groups in the field of transport.</p>					
<b>Expected learning outcomes on a level of a course</b>					
<p>1. Describe organisation of road system and classification of public roads in Republic of Croatia and legislative and transport-technical regulations within this area.          2. Substantiate methodology of creation spatial-transport studies and principles of planning transport infrastructure in the international surrounding.          3. Determine basic principles of transport planning and transport infrastructure in cities.          4. Choose basic elements for projecting transport-safety roundabout and choose the proper roundabout by applying multicriteria analysis.          5. Recommend basic transport-functional elements and project standards for planning and projecting parking lots, garage-parking facilities, transport terminals and surfaces for un-motorized traffic.</p>					
<b>Content of a course</b>					
<p>Introduction, basic terms, definition, terminology, statutory regulations, rules and institutions concerning communication line design and construction. Basic architectonic features of transport facilities, parking area, parking garage (lazy traffic), urban and motorway filling station, bus terminal, pedestrian underpass, elevated passage, level crossroad, circular crossroad, multi-levelled interchange, pedestrian zone and communication, and urban and rural road communication environmental aspects.</p>					
<b>Teaching modes</b>	<input checked="" type="checkbox"/> lectures <input type="checkbox"/> auditory exercises <input checked="" type="checkbox"/> seminars and workshops <input type="checkbox"/> distance learning <input type="checkbox"/> field classes		<input checked="" type="checkbox"/> individual assignments <input type="checkbox"/> multimedia and network <input type="checkbox"/> laboratory <input type="checkbox"/> supervisor's work <input type="checkbox"/> other _____		
<b>Comments</b>					

## Students' obligations

Fulfil obligations in accordance with the Rules of Study and Rules on the assessment of students.

## Grading, evaluation and monitoring of students' work continuously during lectures and exams

Grading is based upon evaluation of course's learning outcomes' adoption. Grading is performed continuously during lectures and/or during exam, in compliance with the provisions of Regulation on the assessment of students.

### Continuous check-up:

Outcomes	Pre-exam I	Pre-exam 2	Project assignment	Threshold	Max
Outcome 1	8%			4%	8%
Outcome 2	18%			9%	18%
Outcome 3	10%		12%	11%	22%
Outcome 4		17%	13%	15%	30%
Outcome 5		22%		11%	22%
Percentage of ECTS	1,8	1,95	1,25		
Total	36%	39%	25%	50%	100%

A student has passed the exam if he has acquired a percentage of credits for each learning outcome higher or equal to defined threshold.

### Exam term:

Outcomes	Written exam	Oral exam	Max
Outcome 1	4%	4%	8%
Outcome 2	12%	6%	18%
Outcome 3	12%	10%	22%
Outcome 4	20%	10%	30%
Outcome 5	12%	10%	22%
Percentage of ECTS	3,0	2,0	
Total	60%	40%	100 %

A student has passed the exam if he has acquired a percentage of credits for each learning outcome higher or equal to defined threshold.

### Grading:

A student has passed the exam if he has acquired at least 50% of anticipated credits of a specific learning outcome.

If a student has passed learning outcomes of all courses, the accomplished credits (percentages) of all passed learning outcomes are being added, while the final grade is defined upon following table:

Range of credits (percentages)	Numerical grade	ECTS grade
90,00 – 100,00	Excellent (5)	A
75,00 – 89,99	Very good (4)	B
60,00 – 74,99	Good (3)	C
50,00 – 59,99	Sufficient (2)	D
0,00 – 49,99	Insufficient (1)	F

## Obligatory literature

1. Barišić, I. *Planiranje infrastrukture u cestovnom prometu*, skripta, Veleučilište u Rijeci, 2014.
2. Legac, Ivan i koautori: GRADSKA PROMETNICE, Sveučilište u Zagrebu, Fakultet prometnih znanosti, Zagreb 2011. , IZABRANA POGLAVLJA

#### **Additional literature**

1. Maletin, M.: Planiranje i projektovanje saobraćajnica u gradovima, Orion art, Beograd, 2005.
2. Tollazzi, T.: Kružna raskrižja, znanstvena monografija, hrvatsko izdanje, IQ plus d.o.o., Kastav 2007.
3. Smjernice za projektiranje kružnih raskrižja na državnim cestama, Hrvatske ceste, 2014.
4. Dokumenti, zakoni i propisi u svezi planiranja, projektiranja i gradnje prometnica.

