

DESCRIPTION OF A STUDY COURSE – SYLLABUS

Title of a course	Road Transport Infrastructure				
Head of course	Veljko Pevalek, Lecturer				
Study programme	Professional undergraduate study Road Transport				
Status of a course	Obligatory				
Year of study	3.	Semester	V	ECTS credits	3
Teaching plan (L + E + S+ Pr)	2+0+1+0				
Goals of a course					
To acquaint students with the elements of road transport infrastructure and the structure of the road system in the Republic of Croatia.					
Conditions for enrolling course					
No conditions					
Learning outcomes on a level of a study programme which includes course					
<p>Outcome 2: Apply legislation in the field of road transport.</p> <p>Outcome 3: Use standards that cover the subject area when designing transport projects and implementing technological and service processes in the field of road transport.</p> <p>Outcome 5: Evaluate road transport safety factors.</p> <p>Outcome 6: Distinguish between entities and their powers in the field of road transport.</p> <p>Outcome 8: Recommend effective solutions for road transport system planning based on sustainable development principles.</p> <p>Outcome 14: Independently present professional content on oral, written and graphical basis using the usual tools in Croatian and/or foreign language.</p>					
Expected learning outcomes on a level of a course					
<ol style="list-style-type: none"> 1. Describe the development and organization of the public roads road system in the Republic of Croatia 2. Describe road use indicators and basic metrics relevant to the design of public roads 3. Explain the elements of horizontal and vertical alignment of road lines, and elements in road route survey and design. 4. Explain the basic elements of a road cross-section 5. Describe the elements of the upper and lower course of roads 6. Use technical regulations related to transport equipment of roads and the General technical conditions for road works related to transport equipment (OTU), as well as regular and emergency road maintenance works 					
Content of a course					
Introduction, basic terms, definitions, and terminology. Statutory regulations and institutions related with all-weather road design and construction. Road classification. Elements of horizontal and vertical road lines and their compatibility. Road cross section elements. Road-side structures and road equipment. Lower and upper road layers. Road surface construction types: flexible and rigid, multi-layered, the level crossroads layer and multi-level interchange quality and compactness control: construction elements, traffic related and technical and aesthetic criteria. Pedestrian zones and communications.					
Teaching modes	<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 _____		
Comments					
Students' obligations					

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	PowerPoint presentation	Home assignment	Threshold	Max
Outcome 1	10%		3%		6,5%	13%
Outcome 2	10%		3%		6,5%	13%
Outcome 3	15%		3%	6%	12%	24%
Outcome 4		15%	3%	6%	12%	24%
Outcome 5		10%	3%		6,5%	13%
Outcome 6		10%	3%		6,5%	13%
Percentage of ECTS	1,05	1,05	0,54	0,36		
Total	35%	35%	18%	12%	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	7%	7%	14%
Outcome 2	7%	7%	14%
Outcome 3	11%	11%	22%
Outcome 4	11%	11%	22%
Outcome 5	7%	7%	14%
Outcome 6	7%	7%	14%
Percentage of ECTS	1,5	1,5	
Total	50%	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.

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. Legac, Ivan: Cestovne prometnice I / javne ceste, Sveucilište u Zagrebu, Fakultet prometnih znanosti, Zagreb 2006.
2. Barišić, I.: Bilješke sa predavanja - dio predavanja (2012) – radni materijal

Additional literature
<ol style="list-style-type: none">1. Dokumenti, zakoni i propisi u svezi planiranja, projektiranja i gradnje prometnica. Narodne novine Republike Hrvatske (www.nn.hr)2. Pravilnik o osnovnim uvjetima kojima javne ceste izvan naselja i njihovi elementi moraju udovoljavati sa stajališta sigurnosti prometa – NN 110/013. Pravilnik o uvjetima za projektiranje i izgradnju priključaka i prilaza na javnu cestu NN 119/20074. Opći tehnički uvjeti za radove na cestama (OTU) – Knjiga 6. Oprema ceste

