

DESCRIPTION OF A STUDY COURSE – SYLLABUS

Title of a course	Road Transport Safety with Traffic Accidents Expertise				
Head of course	PhD Ivica Barišić, College Professor				
Study programme	Professional undergraduate study Road Transport				
Status of a course	Obligatory				
Year of study	3.	Semester	V	ECTS credits	4
Teaching plan (L + E + S+ Pr)	2+1+0+0				
Goals of a course					
Familiarity with the problem of road safety and the prevention of traffic accidents, and with the legislation related to road safety. Understanding security issues and security factors. Emphasis on classic safety elements: human, vehicle, road and environment. Dealing with budgets related to moving and stopping vehicles. Introduction to standard and non-standard traffic signaling as a function of safety prevention. Getting acquainted with the basic elements of traffic accident expertise and the elements of court expertise.					
Conditions for enrolling course					
No conditions					
Learning outcomes on a level of a study programme which includes course					
Outcome 1: Use mathematical and statistical methods in traffic engineering and traffic research. Outcome 2: Apply legislation in the field of road transport. 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. Outcome 5: Evaluate road transport safety factors. Outcome 8: Recommend effective solutions for road transport system planning based on sustainable development principles. Outcome 11: Select appropriate information technology and software to address specific road transport problems. Outcome 12: Participate in the development of professional projects in road transport. Outcome 15: Participate in teamwork in solving complex road transport tasks.					
Expected learning outcomes on a level of a course					
1. Evaluate the impact of individual factors on road transport safety 2. Analyse the state of road transport safety and evaluate trends in road safety 3. Apply elements of standard and non-standard traffic signalization to improve road transport safety and prevent traffic accidents 4. Calculate the basic elements related to the movement and stopping of vehicles in traffic 5. Identify dangerous spots on roads 6. Explain the basic principles of conducting traffic and technical expert assessment of a traffic accident.					
Content of a course					
Introduction into transport safety problematics. Elements of a road transport safety system. Tackling the safety issue in the society. The state of road transport safety in the Republic of Croatia and EU. Safety factors in road transport: a human –driver, vehicle, road, environment, incidental factor. Driving elements. Starting, accelerating, slowing down and vehicle braking. A reaction and braking path. Stopping sight distance in front an unmovable obstruction, at intensive and free braking. A vehicle in transport. Safe distance. Bypassing, detouring and surpassing vehicles. A transport path. Road. Junction. Environment, Lighting. Standard and non-standard transport signalization with the aim of transport safety. Definition and identification methodology of dangerous places on roads. Sanation program of dangerous places on roads in the Republic of Croatia. Investigation elements at traffic accidents. Types of traces in traffic accidents. Velocity investigation of motor vehicles movement in traffic accidents. Investigation of general types of traffic accidents. Elements of conducting transport-technical expertise.					

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 _____
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Comments

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	Assignments in class	Threshold	Max
Outcome 1	10%				5%	10%
Outcome 2	10%				5%	10%
Outcome 3	15%		15%		15%	30%
Outcome 4		10%		10%	10%	20%
Outcome 5		15%			7,5%	15%
Outcome 6		15%			7,5%	15%
Percentage of ECTS						
Total	1,4	1,6	0,6	0,4		
	35%	40%	15%	10%	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	5%	5%	10%
Outcome 2	5%	5%	10%
Outcome 3	20%	10%	30%
Outcome 4	10%	10%	20%
Outcome 5	10%	5%	15%
Outcome 6	10%	5%	15%
Percentage of ECTS	2,4	1,6	
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			
<ol style="list-style-type: none"> 1. Lecture materials ROAD TRANSPORT SAFETY WITH TRAFFIC ACCIDENTS EXPERTISE, prepared by: dr.sc. Ivica Barišić 2. Vesna Cerovac: TEHNIKA I SIGURNOST PROMETA, Sveučilište u Zagrebu, Fakultet prometnih znanosti, Zagreb 2001, IZABRANA POGLAVLJA 			
Additional literature			
<ol style="list-style-type: none"> 1. Rotim, F., Peran, Z.: FORENZIKA PROMETNIH NESREĆA, HZDP, Zagreb 2011. (odabrana poglavlja) 2. Dokumenti, zakoni i propisi u svezi planiranja, projektiranja i gradnje prometnica. <ul style="list-style-type: none"> • Zakon o sigurnosti prometa na cestama (NN67/08, 48/10, 74/11, 80/13, 158/13, 92/14 i 64/15) • Zakon o cestama (NN 84/11, NN 22/13, NN 54/13, NN 148/13, NN 92/14) • Pravilnik o prometnim znakovima, signalizaciji i opremi na cestama (NN 33/05, 64/05, 155/05, 14/11) • Pravilnik o sadržaju, namjeni i razini razrade prometnog elaborata za ceste (NN 140/13) 			

