

### DESCRIPTION OF A STUDY COURSE – SYLLABUS

Title of a course	Technology and Organization of the Road Transport				
Head of course	PhD Željko Smojver, Senior Lecturer Assistant: Damir Pilepić, Lecturer				
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+0+2+0				
Goals of a course					
Familiarity with the basic principles and features of road transport technology and organization. The aim is to teach students the default content, and to develop the ability of logical reasoning and analytical thinking in solving a identified problem in a road transport company, and in the design and application of technological and organizational projects to achieve greater competitiveness of the company in the liberal market of road transport services.					
Conditions for enrolling course					
No conditions					
Learning outcomes on a level of a study programme which includes course					
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 4: Analyse and evaluate the economic aspect in the traffic engineering practice Outcome 5: Evaluate road transport safety factors. Outcome 6: Distinguish between entities and their powers in the field of road transport. Outcome 8: Recommend effective solutions for road transport system planning based on sustainable development principles. Outcome 10: Assess models of exploitation and maintenance of technical equipment in the transport system. 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 13: Apply measures for managing technological processes in road transport. Outcome 14: Independently present professional content on oral, written and graphical basis using the usual tools in Croatian and/or foreign language. Outcome 15: Participate in teamwork in solving complex road transport tasks.					
Expected learning outcomes on a level of a course					
1. Define the basic concepts of road transport technology and organization 2. Recognize and accurately identify the problem of technology and organization of work of a road company on a specific example 3. Propose the introduction of new ITSs 4. Participate in the creation of timetables in line transport 5. Identify deficiencies of the existing road company organization and propose improvements to the organization and processes					
Content of a course					
Definition of road transport technology, particularly: road transport technology structure, features of cargo and passengers transport demands in interurban transport. Methods of classification of transport demands. Transport coefficient. Road transport structure: infrastructure, superstructure, means of transport, transport equipment and basic, classical and advanced technologies of road transport. Functions of road transport: choice methodology, distribution of cargo on the vehicle as a factor influencing burdening of tires and their wearing out as well as driving safety, rostering criteria, time analysis of means of transport and handling devices. Information system and road transport technology management system. Planning of development of road means of transport.					

<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>						
<b>Students' obligations</b>						
Fulfil obligations in accordance with the Rules of Study and Rules on the assessment of students.						
<b>Grading, evaluation and monitoring of students' work continuously during lectures and exams</b>						
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.						
<b>Continuous check-up:</b>						
<b>Outcomes</b>	<b>Pre-exam I</b>	<b>Pre-exam 2</b>	<b>Seminar work</b>	<b>Fieldwork Report</b>	<b>Threshold</b>	<b>Max</b>
Outcome 1	20				10	20
Outcome 2	10		10		10	20
Outcome 3		10	10	5	12,5	25
Outcome 4			10	5	7,5	15
Outcome 5		10		10	10	20
Percentage of ECTS	1	1,5	1,0	0,5		
<b>Total</b>	<b>30%</b>	<b>20%</b>	<b>30%</b>	<b>20%</b>	<b>50%</b>	<b>100%</b>
A student has passed the exam if he has acquired a percentage of credits for each learning outcome higher or equal to defined threshold.						
<b>Exam term:</b>						
<b>Outcomes</b>	<b>Written exam</b>	<b>Max</b>				
Outcome 1	20	20				
Outcome 2	20	20				
Outcome 3	25	25				
Outcome 4	15	15				
Outcome 5	20	20				
Percentage of ECTS	4					
<b>Total</b>	<b>100%</b>	<b>100%</b>				
A student has passed the exam if he has acquired a percentage of credits for each learning outcome higher or equal to defined threshold.						
<b>Grading:</b>						
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:						
<b>Range of credits (percentages)</b>	<b>Numerical grade</b>	<b>ECTS grade</b>				
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				

<b>Obligatory literature</b>
1. Baričević, H.: Tehnologija kopnenog prometa, Pomorski fakultet, Rijeka, 2001.
2. Županović, I.: Tehnologija cestovnog prijevoza, FPZ, Zagreb, 2002.
<b>Additional literature</b>
1. Miloš, I.: Tehnologija i organizacija intermodalnog prometa, Veleučilište u Rijeci, Rijeka, 2011.

