

DESCRIPTION OF A STUDY COURSE – SYLLABUS

Title of a course	Technological Processes in Road Transport				
Head of course	Robert Mrvčić, Lecturer				
Study programme	Specialist professional graduate study Road Transport				
Status of a course	Elective				
Year of study	2.	Semester	III	ECTS credits	7
Teaching plan (L + E + S+ Pr)					
Goals of a course					
Understanding the issues of technological processes in road transport and learning about ways to optimize technological processes					
Conditions for enrolling course					
No conditions					
Learning outcomes on a level of a study programme which includes course					
<p>Outcome 2: Apply international, European and national legislation in the implementation of technological and service processes in the field of road transport.</p> <p>Outcome 6: Create models of exploitation and maintenance of technical equipment in the transport system.</p> <p>Outcome 7: Select information technology and software to address specific transport system problems.</p> <p>Outcome 9: Use methods for optimizing technological processes in road transport.</p> <p>Outcome 12: Manage organizational systems in road transport.</p> <p>Outcome 13: Manage communication and collaboration processes in different social groups in the field of transport.</p>					
Expected learning outcomes on a level of a course					
<ol style="list-style-type: none"> 1. Describe the concepts, structure and elements of transportation, transport in general and technological processes 2. Compare the most favourable modes of transport through the characteristics of the transport substrate and adequate transport processes 3. Recommend the possibilities of linking technological processes and IT systems in road transport 4. Determine methods for optimizing road transport technological processes 5. Determine the appropriate solution for the problems of technological processes 					
Content of a course					
<p>Fundamental principles of road transport technology: fundamental, classic and advanced technologies of road transport and their phases. Structure of technology and organization of road transport: infrastructure and superstructure, means of transport and equipment, transport documentation. Features of passengers and cargo transport requirements in interurban transport: travelling models, choice methodology, analysis of procedures and flow of cargo in road transport, concept of road hierarchy. Methods of quantification of transport requirements: roistering criterion. Analysis of transport procedures in road transport: technological processes (lists) designing, methodology of technological processes designing, indicators of work and business results. Information system in road transport.</p>					
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 1	Pre-exam 2	Seminar work	Fieldwork Report	Threshold	Max
Outcome 1	5	5	10		10	20
Outcome 2	15	0		5	10	20
Outcome 3	15	0		5	10	20
Outcome 4		15		5	10	20
Outcome 5		15	5		10	20
Percentage of ECTS	2,8	2,8	0,8	0,6	-	-
Total	40	40	11	9	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	15	5	20
Outcome 2	15	5	20
Outcome 3	15	5	20
Outcome 4	15	5	20
Outcome 5	15	5	20
Percentage of ECTS	7		
Total	75%	25%	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. Županović, I.: Tehnologija cestovnog prijevoza, FPZ, Zagreb, 2002.
2. Rajsman, M.: Tehnologija cestovnog prometa, FPZ, Zagreb, 2012.
3. Baričević, H.: Tehnologija kopnenog prometa, Pomorski fakultet, Rijeka, 2001.
4. Miloš, I.: Tehnologija i organizacija intermodalnog prometa, Veleučilište u Rijeci, Rijeka, 2011.

Additional literature

