

DESCRIPTION OF A STUDY COURSE – SYLLABUS

Title of a course	Rail Transport Economics				
Head of course	PhD Drago Pupavac, Senior Lecturer				
Study programme	Professional undergraduate study Transport				
Status of a course	Obligatory				
Year of study	3.	Semester	V	ECTS credits	3
Teaching plan (L + E + S+ Pr)	2L+1S				
Goals of a course					
Getting acquainted with the specifics of the transport service and the transport market, market structures in transport, macro-transformations in transport, European Union transport policy and modern phenomena in transport. Acquisition of practical knowledge on calculation of costs in transport, application of tariffs in railway transport and analysis of indicators of success and stability of operations of railway transport companies.					
Conditions for enrolling course					
No conditions					
Learning outcomes on a level of a study programme which includes course					
<p>Outcome 1: Use mathematical and statistical methods in traffic engineering and traffic research.</p> <p>Outcome 2: Apply legislation in the field of railroad 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 railroad transport.</p> <p>Outcome 4: Analyse and evaluate the economic aspect in the traffic engineering practice.</p> <p>Outcome 5: Evaluate railroad transport safety factors.</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. Critically evaluate contemporary railroad transport phenomena 2. Recommend and present a plan of an optimal railroad transport network 3. Evaluate macro-transformations of transport management 4. Compile railroad carrier cost calculation 5. Determine costs in railroad transport 6. Measure performance and stability indicators for railroad transport companies 					
Content of a course					
Development of Croatian and European railway network. The importance of railway traffic. Economic features of railway infrastructure and transport devices. Market structure in railway traffic. Production and features of transport services in railway traffic. Structure of expenses in railway traffic. Measurement of railway operators' successfulness in business operations. Modern phenomena in railway traffic – safety, energy, ecology, financial stability.					
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	Seminar work	Assignment s	Threshold	Max
Outcome 1	10		3	3	8	16
Outcome 2	10		3	3	8	16
Outcome 3	10		4	4	9	18
Outcome 4		10	3	3	8	16
Outcome 5		10	3	3	8	16
Outcome 6		10	4	4	9	18
Percentage of ECTS	1	1	0,5	0,5		
Total	30	30	20	20	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	13	3	16
Outcome 2	13	3	16
Outcome 3	14	4	18
Outcome 4	13	3	16
Outcome 5	13	3	16
Outcome 6	14	4	18
Percentage of ECTS	3	1	
Total	80	20	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. Pupavac, D. (2009). Načela ekonomike prometa, Veleučilište u Rijeci, Rijeka.
2. Quinet, E., Vickerman, R. (2009). Principles of Transport Economics, Edward Elgar Pub.
3. Čavrak, V. Makroekonomski management i strategija prometa Hrvatske, Politička kultura, Zagreb, 2003.
4. Čavrak, V, Ekonomika prometa, Škola za cestovni promet, Zagreb, 2001.

Additional literature

1. Zelenika, R. (2010). Ekonomika prometne industrije, Ekonomski fakultet u Rijeci, Rijeka.

2. Rodrigue , J., et al. (2009). The Geography of Transport Systems, Routledge, New York.
3. Mallard, G, and Glaister, S, Transport Economics, Palgrave, Macmillan, 2008.

