

DESCRIPTION OF A STUDY COURSE – SYLLABUS

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Title of a course	In-house Transport and Storage				
Head of course	MSc Dorotea Žic, Lecturer				
Study programme	Professional undergraduate study Road Transport/ Railroad Transport				
Status of a course	Obligatory				
Year of study	2.	Semester	III	ECTS credits	4
Teaching plan (L + E + S+ Pr)	2+2+0+0				
Goals of a course					
<p>The aim of the course is to acquaint students with the ability of analytical thinking and logical reasoning with the development and complex problems of handling, transport, storage and business of internal transport and storage in transport, manufacturing, service companies and other economic entities. Thus, particular emphasis is placed on practical knowledge in monitoring and designing material flows, processes, vehicles, equipment and procedures for internal transportation and storage.</p> <p>The aim of the exercises is to introduce students to given topics and examples from the environment and to motivate them to produce papers and assignments, in which they will implement the knowledge as a result of accepting the content of courses in lectures, which is important for their later work in the practice of transport companies and other businessmen .</p>					
Conditions for enrolling course					
No conditions					
Learning outcomes on a level of a study programme which includes course					
Name of the study program: Road transport					
<p>Outcome 1: Use mathematical and statistical methods in traffic engineering and traffic research.</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 4: Analyse and evaluate the economic aspect in the traffic engineering practice.</p> <p>Outcome 10: Assess models of exploitation and maintenance of technical equipment in the transport system.</p> <p>Outcome 11: Select appropriate information technology and software to address specific road transport problems.</p> <p>Outcome 13: Apply measures for managing technological processes in road transport.</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>					
Name of the study program: Railroad transport					
<p>Outcome 1: Use mathematical and statistical methods in traffic engineering and traffic research.</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 10: Assess models of exploitation and maintenance of technical equipment in the transport system.</p> <p>Outcome 11: Select appropriate information technology and software to address specific railroad transport problems.</p> <p>Outcome 13: Apply measures for managing technological processes in railroad transport.</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					
<p>1. Describe the terms and definitions of all internal transport and storage elements, as well as their practical implementation.</p> <p>2. Compare material flows and processes in internal transport and storage systems.</p>					

3. Explain the importance and role of warehouse and storage in internal transport and storage systems.
4. Select the logistics of internal transport and storage for the purpose of successful handling, transport, storage and operation of production, transport, storage companies and other economic entities.
5. Apply logistic and technological-organizational processes of transport and storage in internal transport and storage systems.
6. Explain the role and technical-technological characteristics of transport vehicles and equipment in the logistic processes of internal transport and storage.

Content of a course

Notion of in-house transport and storage. Technical-technological parameters of in-house transport. Analysis of processes and flow of goods. Interdependence of in-house and external transport and storage. Notion, structure and function of a warehouse: types, construction and purpose of a warehouse and identifying of warehousing requirements and capacity. Handling of goods and organization of in-house transport and storage processes in manufacturing and transport enterprises. Automation of in-house transport and storage processes. Influence of enterprise process of production or services on the choice of in-house transport and storage. In-house planning and designing. Specific traits of in-house transport in production and distribution centers. Mathematical models for selection of the most favourable choice of in-house transport and for analyzing the efficiency of its functioning.

Teaching modes	<input checked="" type="checkbox"/> lectures	<input checked="" type="checkbox"/> individual assignments
	<input type="checkbox"/> auditory exercises	<input type="checkbox"/> multimedia and network
	<input checked="" type="checkbox"/> seminars and workshops	<input type="checkbox"/> laboratory
	<input type="checkbox"/> distance learning	<input type="checkbox"/> supervisor's work
	<input type="checkbox"/> field classes	<input type="checkbox"/> other _____

Comments	Exposed course material is determined through lectures, exercises, assignments, answers to exam questions, papers as brief examinations and discussions in the dynamic interaction between professor and student.
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Students' obligations

Meet the obligations prescribed in the Study Regulations and the Regulations 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	Test	Home assignment in class	Report	Threshold	Max
Outcome 1			10%	2%		6%	12%
Outcome 2	20%			2%		11%	22%
Outcome 3	12%			2%		7%	14%
Outcome 4	4%			4%	6%	7%	14%
Outcome 5		18%		2%		10%	20%
Outcome 6		16%		2%		9%	18%
Percentage of ECTS							
Total	1,44	1,36	0,4	0,56	0,24	-	-
	36%	34%	10%	14%	6%	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	10%	2%	12%
Outcome 2	18%	4%	22%

Outcome 3	10%	4%	14%
Outcome 4	12%	2%	14%
Outcome 5	16%	4%	20%
Outcome 6	14%	4%	18%
Percentage of ECTS	3,2	0,8	-
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. Dundović, Č., Hess, S.: **Unutarnji transport i skladištenje**, Pomorski fakultet u Rijeci, Rijeka, 2007.
2. Miloš, I.: **Unutarnji transport i skladištenje**, autorizirana predavanja iz kolegija Unutarnji transport i skladištenje, Veleučilište u Rijeci, Prometni odjel, Rijeka, 2003.

Additional literature

1. Dundović, Č.: **Prekrcajna sredstva prekidnog transporta**, Pomorski fakultet u Rijeci, Rijeka, 2004.
2. Mađarević, B.: **Rukovanje materijalom**, Tehnička knjiga Zagreb, 1969.
3. Oluić, Č.: **Skladištenje u industriji: rukovanje materijalom**, Fakultet strojarstva i brodogradnje u Zagrebu, Zagreb, 1997.
4. Prikil, B.; Božičević, D.: **Mehanizacija pretovara i skladištenje**, Fakultet prometnih znanosti, Zagreb, 1987.
5. Schroeder, G.R.: **Upravljanje proizvodnjom, Odlučivanje u funkciji proizvodnje**, Četvrto izdanje, Mate d.o.o., Zagreb, 1999.
6. Skowron, A.: **Organizacija unutrašnjeg transporta**, Školska knjiga, Zagreb, 1986.
7. Zlonoga, D.; Lukačević, M.: **Paleta i paletizacija**, Izdavačko i tiskarsko poduzeće August Šenoa, Zagreb, 1993.

