DESCRIPTION OF A STUDY COURSE – SYLLABUS

Title of a course	**Goods-distribution Centers and Terminals**				
Head of course	**PhD Bojan Hlača, College Professor** **Erika Gržin, Lecturer**				
Study programme	**Professional undergraduate study Road Transport** **Professional undergraduate study Railroad Transport**				
Status of a course	Obligatory				
Year of study	2.	**Semester**	IV	**ECTS credits**	5
Teaching plan (L + E + S+ Pr)	2+0+2+0				

Goals of a course

Introducing students to the basic features of logistics, distribution and terminals. Acquiring basic knowledge of ports and the port system. Introducing students to the role of containerization and the operation of container terminals.

Conditions for enrolling course

No conditions

Learning outcomes on a level of a study programme which includes course

Outcome 2: Apply international, European and national legislation in the implementation of technological and service processes in the field of road/ railroad transport.
Outcome 3: Apply economic solutions to transport systems while respecting the fundamental financial, marketing, ethical, management and other economic principles.
Outcome 4: Analyse and evaluate the economic aspect in the traffic engineering practice.
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/ railroad transport problems.
Outcome 14: Independently present professional content on oral, written and graphical basis using the usual tools in Croatian and/or foreign language.

Expected learning outcomes on a level of a course

1. Interpret logistics, supply chain, distribution and distribution costs.
2. Define the concepts of warehouse, terminal, infrastructure, supra-structure and intellectual capital.
3. Explain the concepts of ports and port system.
4. Explain the concepts of terminals as intermodal and goods transport centres.
5. Analyse the purpose and mode of operation of terminals according to the type of goods.
6. Explain the concept of containerization in detail and analyse the operation of container terminals.

Content of a course

Definition and classification of goods-distribution centers and terminals and their technical-technological features. Basic structure and function of goods-distribution centers and terminals and defining of their gravitational field: infrastructure, superstructure, transport means and equipment, personnel and information system and objects of labour. Methodology of defining contents and technical-technological features: containers, RO-RO, LASH, huckepack, road and rail terminals and terminals for bulk cargo, liquid cargo and special cargo. Methodology of assessment of static, dynamic and operative capacity of distribution centers and terminals. Planning and designing of distribution centers and terminals development. Planning and programming of management systems and calculation of economic results after the new plans.

Teaching modes	☒ lectures ☐ auditory exercises ☒ seminars and workshops ☐ distance learning ☐ field classes	☒ individual assignments ☐ multimedia and network ☐ laboratory ☐ supervisor's work ☐ other _____
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	Seminar work	Home assignment	Threshold	Max
Outcome 1	**10%**				**5%**	**10%**
Outcome 2	**10%**			**2%**	**6%**	**12%**
Outcome 3	**10%**		**10%**	**2%**	**11%**	**22%**
Outcome 4		**10%**	**10%**	**2%**	**11%**	**22%**
Outcome 5		**10%**	**10%**	**2%**	**11%**	**22%**
Outcome 6		**10%**		**2%**	**6%**	**12%**
Percentage of ECTS	**1,5**	**1,5**	**1,5**	**0,5**	**-**	**-**
Total	**30%**	**30%**	**30%**	**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	**8%**	**2%**	**10%**
Outcome 2	**10%**	**2%**	**12%**
Outcome 3	**18%**	**4%**	**22%**
Outcome 4	**18%**	**4%**	**22%**
Outcome 5	**18%**	**4%**	**22%**
Outcome 6	**8%**	**4%**	**12%**
Percentage of ECTS	**4**	**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. Hlača, B.: **Lučka logistika**, Sveučilište u Rijeci, Pomorski fakultet u Rijeci, Rijeka, 2016.
2. Hlača, B.: **Poslovna logistika**, Skripta autoriziranih predavanja, Pomorski fakultet u Rijeci, Rijeka, 2006.

3. Hlača, B.: **Terminali i robni tokovi**; Skripta autoriziranih predavanja, Veleučilište u Rijeci, Rijeka, 2006

Additional literature

1. Branch, A.E.; **Global Supply Chain Management and International Logistics**, Taylor & Francis e – Library, New York, 2008.
2. Chung – Yee Lee, Qiang Meng; **Handbook of Ocean Container Transport Logistics**, The Hong Kong University of Science and Technology, National University of Singapore, Hong Kong, Singapore, 2015.
3. Bichou, K.; **Port Operations, Planning and Logistics**, Lloyds Practical Shipping Guides, Oxon, UK, 2013.
4. 4. Burns, M.G, **Port Management and Operation**, Boca Raton U.S., 2015,