DESCRIPTION OF A STUDY COURSE – SYLLABUS

Title of a course	**Knowledge of Commodities**				
Head of course	**Barbara Rudić, Senior Lecturer**				
Study programme	**Professional undergraduate study Road Transport**				
Status of a course	Obligatory				
Year of study	1.	**Semester**	I	**ECTS credits**	5
Teaching plan (L + E + S+ Pr)	L+S (2+1)				

Goals of a course

Know the basic principles of amorphous product design and product design. Know EAN product identification system. Know the area of standardization of goods and standards. Know the product quality system as well as the environmental friendliness of products and processes. Know the types of packaging and how to store goods and how to store perishable products. Familiarize yourself with the transportation of goods on pallets and in containers. Know the concept and mode of transport of dangerous goods.

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 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. Describe the characteristics, features and specificities of particular types of goods and describe the method and importance of the product identification system.
2. Define the concept and meaning of product classification and nomenclature, as well as standards, and interpret the goods quality system.
3. Distinguish types of packaging and wrapping of goods and describe the storage method and types of storage, as well as the characteristics of perishable products.
4. Determine the importance of using pallets and containers in the transportation of goods and define dangerous products and their mode of transport.
5. Define the environmental friendliness of products and processes, and sustainable development.

Content of a course

Notion and definition of a product. Product-commodity design. Product-commodity classification. Product identification after EAN system. Standardisation of commodities and standards. Quality of commodities. Quality system ISO 9000. Packing material. Packing of commodities. Storage of commodities. Transport of commodities. Hazardous products (substances). Perishable products. Ecological acceptance of products and processes. Sustainable development. Standardisation in environment protection. Strategic commodities in the world market – raw materials, semi-finished goods, finished products. Fuel types. Coal, oil, gas. Oil industry products. Polymer materials. Cereals. Products that should be cooled. Commodities on pallets. Commodities in containers.

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

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	Threshold	Max
Outcome 1	20%			10%	20%
Outcome 2	20%			10%	20%
Outcome 3		20%	20%	20%	40%
Outcome 4		10%		5%	10%
Outcome 5		10%		5%	10%
Percentage of ECTS	1,5	2	1,5		
Total	40%	40%	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	18%	2%	20%
Outcome 2	18%	2%	20%
Outcome 3	30%	10%	40%
Outcome 4	8%	2%	10%
Outcome 5	8%	2%	10%
Percentage of ECTS	4	1	
Total	82%	18%	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. Ivo Andrijanić, Miljenko Bilen, Tonći Lazibat: Poznavanje robe u trgovini, Mikrorad, Zagreb, 2001.
2. Tonći Lazibat, Tomislav Baković: Poznavanje robe i upravljanje kvalitetom, Ekonomski fakultet Sveučilišta u Zagrebu, Zagreb, 2012.
3. Lecture notes

Additional literature
1. Nada Štrumberger: Rukovanje materijalima u prometu, Sveučilište u Zagrebu, Fakultet prometnih znanosti, Zagreb, 2000.