

3.2. Course description

Generic information						
Head of Course	mr.sc. Rikard Miculinić	mr.sc. Rikard Miculinić				
Course	Engineering graphics	Engineering graphics				
Study Programme	Technology and Organization of Transport					
Level	Undergraduate degree programme					
Type of Course	elective	elective				
Year of Study	1.					
Estimated Student	ECTS coefficient of Student Workload		3			
Workload and Methods of Instruction	Number of Hours (L+E+S)		1+2			

JRSE DI	ESCRIPTION						
1.1. Course Objectives							
ill poss	ess the knowledge and skill	s requ	ired to graphi	cally s	solve to	echnical problems a	ınd
ites for	Course Registration						
Learnir	ng Outcomes						
		graphi	ics and the rul	os of	tochni	cal drawing	
utline							
						~	
r on	X Lectures Seminars and workshops X Exercises E-learning			X Practical work Multimedia and Network Laboratory Mentorship Other			
ts							
Obligatio	ons						
In addition to the required tasks, the student is required to create a complex engineering drawing.							
1.8. Assessment ¹ of Learning Outcomes							
1.5	Class participation		Seminar pape	r	1	Experiment	
0.5	Oral exam		Essay			Research	
	Continuous Assessment	1	Presentation			Practical work	
	bjective vill poss vites for Learnin be able vithe ISC utline utains the ina (line on be requent of L 1.5	ites for Course Registration Learning Outcomes be able to: the ISO standards of engineering utline Itains the rules and recommendation (lines formats and scales). Orthor X Lectures Seminars and worksh X Exercises E-learning Field work ts Obligations he required tasks, the student is recent of Learning Outcomes 1.5 Class participation 0.5 Oral exam	bjectives vill possess the knowledge and skills required for Course Registration Learning Outcomes be able to: vithe ISO standards of engineering graphs utline stains the rules and recommendations of ing (lines formats and scales). Orthogon X Lectures Seminars and workshops X Exercises E-learning Field work ts Dbligations he required tasks, the student is required ent ¹ of Learning Outcomes 1.5 Class participation 0.5 Oral exam	bjectives vill possess the knowledge and skills required to graphicites for Course Registration Learning Outcomes be able to: vithe ISO standards of engineering graphics and the rule utline stains the rules and recommendations of ISO and DIN standards and scales). Orthogonal projection of X Lectures Seminars and workshops X Exercises E-learning Field work ts Dibligations the required tasks, the student is required to create a cent ¹ of Learning Outcomes 1.5 Class participation Seminar paper O.5 Oral exam Essay	bjectives fill possess the knowledge and skills required to graphically stites for Course Registration Learning Outcomes be able to: A the ISO standards of engineering graphics and the rules of utline Itains the rules and recommendations of ISO and DIN standards of engineering graphics and the rules of utline Itains the rules and recommendations of ISO and DIN standards of Engineering graphics and the rules of utlines formats and scales). Orthogonal projection on two ing (lines formats and scales). Orthogonal projection on two ing (lines formats and scales). Orthogonal projection on two ing (lines formats and workshops X Exercises Beligations The required tasks, the student is required to create a complement of Learning Outcomes 1.5 Class participation Seminar paper O.5 Oral exam Essay	bjectives vill possess the knowledge and skills required to graphically solve to sites for Course Registration Learning Outcomes be able to: vithe ISO standards of engineering graphics and the rules of technique in the ISO standards of engineering graphics and the rules of technique in the ISO standards of engineering graphics and the rules of technique in the ISO standards of engineering graphics and the rules of technique in the ISO standards for ing (lines formats and scales). Orthogonal projection on two and the ISO seminars and workshops X Lectures Seminars and workshops X Exercises E-learning Field work Deligations The required tasks, the student is required to create a complex engineering outcomes 1.5 Class participation Seminar paper 1 0.5 Oral exam Essay	bjectives vill possess the knowledge and skills required to graphically solve technical problems a vites for Course Registration Learning Outcomes be able to: vitho ISO standards of engineering graphics and the rules of technical drawing utiline vitains the rules and recommendations of ISO and DIN standards for the design of the ing (lines formats and scales). Orthogonal projection on two and three planes (nointe in its Seminars and workshops X Lectures Seminars and workshops Walltimedia and Network X Exercises Belearning Field work ts Obligations The required tasks, the student is required to create a complex engineering drawing. Pent ¹ of Learning Outcomes 1.5 Class participation Seminar paper 1 Experiment O.5 Oral exam Essay Research

¹ **NOTE:** Name the proportion of ECTS credits for each activity so that the total number of ECTS credits is equal to the ECTS value of the course. Use empty fields for additional activities.



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1.9. Assessment of Learning Outcomes and Examples of Evaluation during Classes and on the Final Exam

70% in class, 30% in final exam; according to "Pravilnik o studijima Sveučilišta u Rijeci" and "Pravilnik o studiranju na Pomorskom fakultetu u Rijeci" (the regulations on Studies of the University of Rijeka and

1.10. Main Reading

Bukša, A., Grafičke komunikacije – Zbirka zadataka, Pomorski fakultet Rijeka, 2001.

Thomas Road Engineering Drawing ISBN:0780713678574

1.11. Recommended Reading

- 1. Marunić, Gordana, Elementi inženjerske grafike, Rijeka, Tehnički fakultet, 1998.
- 2 Rogolyubov S. Evercises in machine drawing Moscow Mir Publishers 1989

1.12. Number of Main Reading Examples

Title	Number of examples	Number of students
Bukša, A., Grafičke komunikacije – Zbirka zadataka, Pomorski fakultet Rijeka, 2001.	12/51	26
Thomas Reed, Engineering Drawing, ISBN:9780713678574	2	26

1.13. Quality Assurance

The quality of study is monitored in accordance with the ISO 9001 system and in accordance with European standards and guidelines for quality assurance carried out at the Faculty of Maritime Studies in Rijeka. Once



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3.2. Course description

Generic information						
Head of Course	Associate professor Biserka	Associate professor Biserka Draščić Ban, PhD.				
Course	Mathematics 1					
Study Programme	Technology and Organization of Transport					
Level	Undergraduate degree programme					
Type of Course	obligatory					
Year of Study	first					
Estimated Student	ECTS coefficient of Student Workload 6					
Workload and Methods of Instruction	Number of Hours (L+E+S) 45+30+0					

1.	ENERAL COURSE DESCRIPTION								
	1.1. Course Objectives								
	The main objective of the course is to provide general educational content and education about the mathematical apparatus used in other basic and elective courses during undergraduate studies and to emphasize the importance of accurately expressing and defining all the terms used in the courses during study.								
	1.2. Prerequisites for Course Registration								
	one								
	1.3. Expected Learning Outcomes								
	 To recognize basic concepts of linear algebra, real functions of one variable and differential calculus of functions of one variable. To state and correctly explain basic results from linear algebra and diffrential calculus of functions of one variable. To interpret basic operations with matrices, vector and determinants, to solve the systems of linear equations, and find the limit values and derivatives of real functions of one variable. To master the application of differential calculus on describing real functions. 								
	1.4. Course Outline								
	ements of the set theory. Number sets N,Z Q,R,C. Elements of Combinatorics. Binomial and polynomial ormula. Sequences. Determinants. Matrices. Systems of linear algebraic equations. Vecotrs. Mapping, elation, function of one variable. Limits of functions. Derivative. Differential. Theorems of differential alculus. Application of differential calculus on describing real functions.								
	Lectures Seminars and workshops Instruction E-learning Field work Practical work Multimedia and Network Laboratory Mentorship Other Other								
	1.6. Comments								

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1.7. Student Obligations

Taking classes regularly and doing homework assignments.

1.8. Assessment¹ of Learning Outcomes

Course attendance	2,5	Class participation		Seminar paper	Experiment	
Written exam		Oral exam	1,5	Essay	Research	
Project		Continuous Assessment	2	Presentation	Practical work	
Portfolio						

¹ **NOTE:** Name the proportion of ECTS credits for each activity so that the total number of ECTS credits is equal to the ECTS value of the course. Use empty fields for additional activities.



1.9. Assessment of Learning Outcomes and Examples of Evaluation during Classes and on the Final Exam

Assesment of Learning is done through two partial written tests during Classes and through oral final exam.

Example od written test:

1) (outcome 1, 2 | 3) Calculate the following limits: a)
$$\lim_{n\to\infty} \left(\frac{n^2+1}{n^2-1}\right)^{\frac{n^2+2}{2}}$$
 b) $\lim_{x\to 1} \ln x \ln(x-1)^{-1}$

2) (outcome 1, 2 | 3) Find z:
$$\frac{\dot{z} + |z| - \sqrt{29}}{2} = 3 + \frac{9}{2}i^9$$

3) (outcome 1, 2 | 3) Find $A^{-1} \cdot B$ if:

$$A = \begin{bmatrix} 3 & 0 & -2 \\ 0 & 4 & 5 \\ -4 & 0 & 6 \end{bmatrix} i B = 2 I - A$$

4) (outcome 1, 2 i 3) Find the first derivative od the function

$$f(x) = \frac{2x}{x^2 - 2x - 3} + \sqrt{6 - x^2} + \ln(x + 5)$$

5) (outcome 4) Describe and plot the function $f(x) = \frac{1-x^2}{x^2+1}$

PITANJA NA USMENOM (outcome 2):

- 1) The principle of mathematical induction
- Gaussian method
- 3) Continuity of function
- 4) Extreme values of a function of one variable

1.10. Main Reading

- 1. R. Dobrosavljević, Ž. Glavan, I. Kitarović, Z. Zenzerović, Matematika I, Pomorski fakultet u Rijeci, 1982., Rijeka
- 2. B. P. Demidovič, Zadaci i riješeni primjeri iz matematičke analize : za tehničke fakultete, Tehnička knjiga, 2003., Zagreb

1.11. Recommended Reading

1.12. Number of Main Reading Examples

Title	Number of examples	Number of students
R. Dobrosavljević, Ž. Glavan, I. Kitarović, Z. Zenzerović, Matematika I, Pomorski fakultet u Rijeci.	8	60
B. P. Demidovič, Zadaci i riješeni primjeri iz matematičke analize : za tehničke fakultete,, Tehnička knjiga, Zagreb.	8	60

1.13. Quality Assurance



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3.2. Course description

Generic information						
Head of Course	Associate professor Biserka	Associate professor Biserka Draščić Ban, PhD.				
Course	Mathematics 2					
Study Programme	Technology and Organization of Transport					
Level	Undergraduate degree programme					
Type of Course	obligatory	obligatory				
Year of Study	First					
Estimated Student	ECTS coefficient of Student Workload 6					
Workload and Methods of Instruction	Number of Hours (L+E+S) 45+30+0					

1. GENERAL COURSE DESCRIPTION
1.1. Course Objectives
The main objective of the course is to provide general educational content and education about the mathematical apparatus used in other basic and elective courses during undergraduate studies and to emphasize the importance of accurately expressing and defining all the terms used in the courses during study.
1.2. Prerequisites for Course Registration
None
1.3. Expected Learning Outcomes
 To recognize and correctly explain basic concepts of integral calculus of real functions of one variable, series, real functions of multiple variables and differential equations. To sate and correctly explain basic concepts of integral calculus of real functions of one variable, series, real functions of multiple variables and differential equations. To interpret basic calculations of indefinite integrals, series, real functions of two variables, and methods for solving differential equations. To master the applications of definite integrals.
1.4. Course Outline
Primitive function, table of integrals. Integration methods. Definite integral. Properties of definite integral. Newton — Leibnizova formula. Infinite integral. Series. Convergence of series with positive real members, convergence criteria. Alternating series. Power series. Differential equations, homogenous, linear, Bernoullij equation. Real functions of multiple variables. Partial derivatives. Total differential. Schwarz theorem. Extreme values of functions of multiple variables. Conditional extreme values. Practical work Practical work
1.5. Modes of Instruction
1.6. Comments

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1.7. Student Obligations

Taking classes regularly and doing homework assignments.

1.8. Assessment¹ of Learning Outcomes

Course attendance	2,5	Class participation		Seminar paper	Experiment	
Written exam		Oral exam	1,5	Essay	Research	
Project		Continuous Assessment	2	Presentation	Practical work	
Portfolio						

¹ **NOTE:** Name the proportion of ECTS credits for each activity so that the total number of ECTS credits is equal to the ECTS value of the course. Use empty fields for additional activities.



1.9. Assessment of Learning Outcomes and Examples of Evaluation during Classes and on the Final Exam

Assesment of Learning is done through two partial written tests during Classes and through oral final exam.

Example od written test:

1) (outcomes 1, 2, and 3) Calculate: a)
$$\int \frac{4x+2}{x^2+x+1} dx$$
 b)
$$\int_{0}^{\frac{\pi}{4}} (\cos^2 x - \sin^2 x) dx$$

- 2) (outcomes 4) Calculate the volume of a rotational object that is generated by rotation of the surface bounded by $y = -x^2 + 2$ i and y = x around the x axis in the first quadrant. Draw the object.
- 3) (outcomes 1, 2, and 3) Solve $y'(y^3+1)(1+x^2)=xy$
- 4) (outcomes 1, 2, 13) Find extreme values of the function: $f(x, y) = x^2 + 2y^2 + 2xy - 6x - 10y + 50$

Example od oral exam (outcome 2):

- 1. Newton-Leibnitz formula
- 2. Cauchy's convergence criterium
- 3. Ekstreme values of functions of two variables

1.10. Main Reading

- 1. R. Dobrosavljević, Ž. Glavan, I. Kitarović, Z. Zenzerović, Matematika II, Pomorski fakultet u Rijeci, 1993., Rijeka
- 2. B. P. Demidovič, Zadaci i riješeni primjeri iz matematičke analize : za tehničke fakultete, Tehnička knjiga, 2003., Zagreb

1.11. Recommended Reading

1.12. Number of Main Reading Examples

Title	Number of examples	Number of students
R. Dobrosavljević, Ž. Glavan, I. Kitarović, Z. Zenzerović, Matematika I, Pomorski fakultet u Rijeci.	8	60
B. P. Demidovič, Zadaci i riješeni primjeri iz matematičke analize : za tehničke fakultete,, Tehnička knjiga, Zagreb.	8	60

1.13. Quality Assurance



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3.2. Course description

Generic information						
Head of Course	Mirjana Borucinsky, PhD	Mirjana Borucinsky, PhD				
Course	English Language 1	English Language 1				
Study Programme	Technology and Organization of Transport					
Level	Undergraduate degree programme					
Type of Course	Core					
Year of Study	1	1 1				
Estimated Student Workl	ECTS coefficient of Student Workload		4			
oad and Methods of Instruction	Number of Hours(L+E+S)		15+30+0			

oad and Methods of Instruction	Number of Hours($1+1+1$) $1 + 1 + 3 + 3 + 3 + 3 + 3 + 3 + 3 + 3 + $				
1.GENERALCOURSEDESC	RIPTION				
1.1. Course Objectives	s				
	to develop the students' ability for written arogy related to the technology and organiza				
1.2. Prerequisites for	Course Registration				
None.					
1.3. Expected Learnin	g Outcomes				
(independent use 2. Demonstrate lang transport in Englis 3. Express oneself ar 4. Describe present,	asic language skills in English: reading, wrighter) according to the Common European Frame guage knowledge and skills for performing prosh. In discuss about professional topics in English past and future events. In entences dealing with vocational topics from	ework of Reference for Languages (CEF). rofessional work in maritime business and			
1.4. Course Outline					
professional written and technology and organizat	and relevant elements of grammar (tens spoken texts about the following extra-lingu- tion of transport. Basics of maritime transp of road transport technology. Basics of rai nsport technologies.	uistic topics: Theoretical characteristics of port technology. Transport technology in			
1.5. Modes of Instruction	☐ Lectures☐ Seminars and workshops☐ Exercises☐ E-learning☐ Field work	Practical work Multimedia and Network Laboratory Mentorship Other			
1.6 Comments					

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1.7. Student Obligations

1st midterm exam, 2nd midterm exam, final exam

1.8. Assessment¹ of Learning Outcomes

Course attendance	1,5	Class participation		Seminar paper	Experiment	
Written exam		Oral exam	1	Essay	Research	
Project		Continuous Assessment	1,5	Presentation	Practical work	
Portfolio						

1.9. Assessment of Learning Outcomes and Examples of Evaluation during Classes and on the Final Exam

The procedure of assessment of learning outcomes is performed according to the University of Rijeka Regulations on the Studies and the Regulations on the Studies of the Faculty of Maritime Studies in the following way:

- 70 % of outcomes are assessed through continuous assessment in class. The 1st midterm exam assesses the outcomes 1 and 2 (35 %), while the 2nd midterm exam assesses the outcomes 4 and 5 (35 %). The students need to gain at least 50 % on each midterm exam.
- The final exam assesses 30 % of learning outcomes (1-5), whereby the student must gain at least 50 % of points to pass.

Examples of outcome assessment in relation to the set outcomes are:

- 1. Define the difference between: 'traffic', 'transport' and 'transportation'.
- 2. See and explain the advantages of combined transport technologies using professional terminology.
- 3. Explain the relation between the subordinate and superordinate terms (modes of transport air, water, land transport).
- 4. Describe present, past and future events.
- 5. Translate simple sentences from English into Croatian, using a dictionary.

1. 10. Main Reading

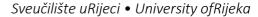
- 1. Evans, V., Dooley, J., Buchannan, D. 2013. Logistics. Express Publishing.
- 2. Grussendorf, M. 2009. English for Logistics. Oxford: OUP.
- 3. Luzer, J.; Spinčić, A. 2001. Gramatička vježbenica za pomorce. Rijeka: Pomorski fakultet.
- 4. Skračić, T. 2016. Fairway. Coursebook for students of Maritime English. Split: Redak Ltd.
- 5. Teaching material available on the e-learning platform Merlin.
- 6. MarEng

1.11. Recommended Reading

1.12. Number of Main Reading Examples

1.12. Namber of Man Nedanig Examples		
Title	Number of examples	Number of students
Evans, V., Dooley, J., Buchannan, D. 2013. <i>Logistics</i> . Express Publish	5	55
Grussendorf, M. 2009. <i>English for Logistics</i> . Oxford: OUP.	5	55
Luzer, J.; Spinčić, A. 2001. <i>Gramatička vježbenica za pomorce.</i> Rijeka: Pomorski fakultet.	5	55
Skračić, T. 2016. Fairway. Coursebook for students of Maritime	5	55

¹ **NOTE**: Name the proportion of ECTS credits for each activity so that the total number of ECTS credits is equal to the ECTS value of the course. Use empty fields for additional activities.



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<i>English</i> Split: Re	edak Ltd.		
Teaching material available on the e-learning platform Merlin.		-	55
1.13.	Quality Assurance		

The quality of the course is monitored in accordance with the ISO 9001 system implemented at the Faculty of Maritime Studies in Rijeka. Once a year, the results of the course are analyzed and a survey is conducted among the students once per semester.



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3.2. Course description

	Generic information					
Head of Course	Associate proffesor Biserka Dr	ssociate proffesor Biserka Draščić Ban, PhD				
Course	Statistics	Statistics				
Study Programme	Technology and Organization of Transport					
Level	Undergraduate degree pro	Undergraduate degree programme				
Type of Course	Mandatory					
Year of Study	first					
Estimated Student	ECTS coefficient of Student Workload		5			
Workload and Methods of Instruction	Number of Hours (L+E+S)		2+2			

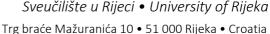
1.	GENERAL COURSE DESCRIPTION						
	1.1. Course Objectives						
	The main course objective is to teach the students how to apply statistical methods to determine the natural laws of the observed traffic phenomena.						
	1.2. Prerequisites for Course Registration						
	none						
	1.3. Expected Learning Outcomes						
	1. To recognize the meaning and the task of statistics and the phases of statistical analysis						
	2. To recognize and analyze different kinds of data sets and their characteristics						
	3. To explain the terms of random variables and probability distributions						
	4. To differe the theoretical probability distributions, and connect them with empirical ones						
	5. To describe the sampling method and, by using the estimation methods and statistical testing on a						
	random sample, make some conclusions about the population						
	6. To recognize the Chi-Square Test						
	7. To interpret the terms of correlation and regression						
	1.4. Course Outline						
ana	e meaning and the task of statistics. Graphical methods in data analysis. Relative numbers. Numerical data alysis. Random variables. Theoretical distribution functions. Chi-Square Test. Sampling method. Time series alysis. Correlation and regression.						
	1.5. Modes of Instruction						

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1.6. Commer	nts							
1.7. Student Obligations								
Taking classes regu	Taking classes regularly and doing homework assignments.							
1.8. Assessm	$1.8.$ Assessment 1 of Learning Outcomes							
Course attendance	2	Class participation	0,5	Seminar paper		Experiment		
Written exam		Oral exam	1	Essay		Research		
Project		Continuous Assessment	1,5	Presentation		Practical wo	rk	
Portfolio								

¹ **NOTE:** Name the proportion of ECTS credits for each activity so that the total number of ECTS credits is equal to the ECTS value of the course. Use empty fields for additional activities.



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1.9. Assessment of Learning Outcomes and Examples of Evaluation during Classes and on the Final Exam

Assessment of learning outcomes is done by conducting three partial written tests and by final exam (oral exam).

Examples:

Written exam:

1) (outcome 2) In period from 2010. until 2017. a certain mass phenomenon has been investigated and the following data was collected:

Year	Υ	
2010	5565	
2011	5334	
2012	4734	
2013	4690	
2014	4497	
2015	4356	
2016	4172	
2017	3359	

- a) Find the average number of occurences per year?
- b) Determine the curve of the linear trend (with the origin in the center of the time period) and by it calculate the number of occurences that is expected in 2020.
- 2) (outcome 5) A statistical feature X has mean 9,72 and standard deviation 1,4. A sample of 36 statistical units gave the mean 8,93. Is the difference between means statistically significant with the risk of 5%?

Oral exam questions:

- 1) (outcome 2) Make an example for attributive, numerical and time series, and for every one of them name the statistical indicators that can be calculated.
- (outcomes 3 and 4) Say what is the probability of a certain, and of an impossible event. Name a few continuous probability distribution and a few discrete ones, and for every of them write down the DF.
- 3) (outcome 6) How (meaning by which statistical test) can we determine the correspondence of some empirical PD with a certain theoretical PD? Describe the procedure.
- 4) (outcome 7) Explain the meaning of the correlation and regression.

1.10. Main Reading

- 1. Z. Zenzerović, Statistički priručnik, Pomorski fakultet u Rijeci, Rijeka, 2004.
- 2. I. Šošić-V.Serdar, Uvod u statistiku, Školska knjiga, Zagreb, 2002.
- 1.11. Recommended Reading



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- 1. Z. Zenzerović, Statističke metode u tehnologiji prometa, Fakultet za pomorstvo i saobraćaj, Rijeka, 1988.
- T. Pogány-Z. Zenzerović, Statističke tablice s uputama za primjenu, Pomorski fakultet u Rijeci, Rijeka, 1993
- J. Čaval, Statističke metode u privrednim i društvenim istraživanjima, Sveučilište u Rijeci, Rijeka, 1981.
- I.Šošić, Zbirka zadataka iz statistike, Mikrorad, Ekonomski fakultet, Zagreb, 1998.

1.12.	Number of Main	Reading Examples
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Title	Number of examples	Number of students	
Z. Zenzerović, Statistički priručnik, Pomorski fakultet u Rijeci, Rijeka,	9	80	
I. Šošić-V.Serdar, Uvod u statistiku, Školska knjiga, Zagreb, 2002.	5	80	
1 13 Quality Assurance			

Quality Assurance 1.13.





3.2. Course description

Generic information							
Head of Course	Full professor Tanja Polet a	Full professor Tanja Poletan Jugović, Ph.D					
Course	Freight forwarding	Freight forwarding					
Study Programme	Technology and Organization of Transport						
Level	Undergraduate/Bachelor	Undergraduate/Bachelor					
Type of Course	Compulsory	Compulsory					
Year of Study	3						
Estimated Student	ECTS coefficient of Student Workload 4						
Workload and Methods of Instruction	Number of Hours (L+E+S) 30+15+0						

GENERAL COURSE DESCRIPTION

1.1. Course Objectives

Acquiring knowledge about the contributions and importance of the forwarding logistics in the transport and international trade systems. Legal determination of the system of the international forwarding. Knowledge of the international forwarder job structures, activities and tasks in the (international) physical and documentation flows of goods (cargo). Defining and simulating the tasks and activities of the forwarder and documentation and forms in the organization and providing of the import, export or transit job. Knowledge, interpretation and use of the Incoterms terms. Knowledge and monitoring of modern trends and choice in the business of international forwarders as logistics

1.2. Prerequisites for Course Registration

1.3. Expected Learning Outcomes

After passing the exam, students will be able to do the following:

- 1. Define the relevant terms, characteristics and role of the forwarding in the modern traffic environment.
- 2. Define and interpret the role and importance of the forwarding logistics in the international trade system and the transport system.
- 3. Distinguish between legal sources, contracts, documents and documents governing the rights, obligations and responsibilities of the forwarder and other stakeholders in the international trade business.
- 4. Know and distinguish the basic tasks, activities and role of the international forwarder in the planning, organization and implementation of the import, export or transit business.
- 5. Know the specific operations and activities of the forwarder in the provision of complete logistics services that impose cargo specifics, customer and market requirements.
- 6. Distinguish the forms, transport documents and other documents within the import, export or transit business.
- 7. Know, interpret and use communication specifics of foreign trade entities using the Incoterms term.
- 8. Explain current trends, challenges and strategies in the development and affirmation of an international forwarder as a logistics operator.

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1.4. Course Outline

The concept and relevant characteristics of the forwarders and forwarding (affirmation and development of the forwarding and logistics operators (3PL, 4PL ...) in the modern transport environment. Importance of the forwarding logistics in the transport system and in the international trading system. International forwarding as a system (characteristics, organizations for international forwarding, national and international forwarding associations). Legal regulation of the forwarding (legal framework, rights and obligations of the freight forwarders). Basic and special jobs, activities and tasks of the international freight forwarder. Incoterms terms. Modern trends and challenges in the business of international freight forwarders as logistics operators (global trends in logistics market, modern strategies of logistics operator,

forwarders as	logistic	s operators (global trends i	n logis	tics market, mode	rn strate	egies of logistics op	perator,
1.5. Modes o Instructi	-	∠LecturesSeminars and workshopsExercisesE-learningField work		Practical work Multimedia and Network Laboratory Mentorship Other			
1.6. Comme	1.6. Comments						
1.7. Student	Obligat	ions					
Seminar work	x presen	tation, 1st colloquium, 2nd	d colloc	quium, final exam			
1.8. Assessm	nent¹ of	Learning Outcomes					
Course attendanc	1,5	Class participation		Seminar paper	0,5	Experiment	
Written exam	0,5	Oral exam		Essay		Research	
Project		Continuous Assessment	1,5	Presentation		Practical work	
Portfolio							
<u></u>				·		· · · · · · · · · · · · · · · · · · ·	

1.9. Assessment of Learning Outcomes and Examples of Evaluation during Classes and on the Final Exam

The procedure for evaluation of the acquired learning outcomes is carried out according to the Regulations on Studies of the University of Rijeka and the Regulations on Studies at the Faculty of Maritime Studies in Rijeka as follows:

- 70% of the acquired learning outcomes within the 1st colloquium (25%), the 2nd colloquium (25%) and through the presentation of a research assignment seminars (20%) are evaluated through continuous assessment during the class; the student must achieve at least 50% of points in each colloquium, and the presentation of the research assignment is evaluated on the basis of elaborated evaluation criteria;
- at the final exam 30% of the obtained learning outcomes are evaluated whereby the student must pass at least 50% of the points for passing the final exam.

Examples of evaluating learning outcomes in relation to set learning outcomes are:

- 1. Define and explain the terms: forwarder, forwarding, logistics operator, 3PL, 4PL., ...
- 2. Explain the role and importance of forwarding logistics in international trade business.
- 3. List the basic legal sources governing the forwarding business and interpret the rights, obligations and responsibilities of the forwarder.
- 4. List and explain the basic tasks of the forwarder: Instruction, delivery of goods, conclusion of contracts and transportation, conclusion of transport insurance contracts, (...) and interpret the legal status and role of the forwarder within them.

¹ **NOTE:** Name the proportion of ECTS credits for each activity so that the total number of ECTS credits is equal to the ECTS value of the course. Use empty fields for additional activities.



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- 5. Give and explain an example of a specific forwarder's business conditioned by a specific cargo / goods (...) and interpret the legal status, role of the shipper, and specific documents and documents within them.
- 6. Explain the purpose, function and information contained in the document forms (... bill of lading / consignment note / customs declaration ...)
- 7. Explain the role of the Incoterms term and interpret the obligations of the seller and buyer in the example of concrete parity (EXW, CIF, FOB, ...).
- 8. Explain and describe the impact and effects of contemporary trends and phenomena on the logistics services market (globalization, computerization,...) on the development and affirmation of the logistics operators.

1.10. Main Reading

- Course materials available at e-learning platform Merlin (https://moodle.srce.hr)
- Zelenika, R., Temelji logističke špedicije, Ekonomski fakultet Sveučilišta u Rijeci, Rijeka, 2005.

1.11. Recommended Reading

- Andrijanić, I., Aržek, Z., Prebežac, D., Zelenika, R., Transportno i špeditersko poslovanje, Zagreb, 2001.
- Incoterms 2010, Pravila tumačenja trgovinskih termina Međunarodne trgovinske komore, HGK, 2010
- Zelenika, R. Incoterms 2000 u teoriji i praksi 100 savjeta i 100 primjera, Ekonomski fakultet Sveučilišta u Rijeci, Rijeka, 2002.
- Zelenika, R., Međunarodna špedicija, Ekonomski fakultet Sveučilišta u Rijeci, Rijeka, 2000.
- Zelenika, R., Logistički sustavi, Ekonomski fakultet u Rijeci, Rijeka, 2005.

1.12. Number of Main Reading Examples

Title	Number of examples	Number of students
Course materials available at e-learning platform - Merlin	-	55
(https://moodle.srce.hr)		
Zelenika, R., Temelji logističke špedicije, Ekonomski fakultet	5	55
Sveučilišta u Rijeci, Rijeka, 2005.		

1.13. Quality Assurance

The quality of study is constantly monitored in accordance with the ISO 9001 standard implemented at the Faculty of Maritime Studies in Rijeka. An analysis of the exams is made annually, and a student survey is conducted once a semester.



3.2. Course description

	Generic information					
Head of Course	Associate Professor Siniša	Associate Professor Siniša Vilke, Ph.D.				
Course	Fundalmentals of transport technology					
Study Programme	Technology and organization of transport					
Type of Course	Obligatory	Obligatory				
Year of Study	1					
Estimated Student	ECTS coefficient of Student Workload 5					
Workload and Methods of Instruction	Number of Hours (L+E+S)	30 + 15				

GENERAL COURSE DESCRIPTION

1.1. Course Objectives

The purpose of the course is to acquire basic knowledge of transport and transport technology, the basic characteristic of all branches of transport and features of their appearance forms and transport technologies.

1.2. Prerequisites for Course Registration

1.3. Expected Learning Outcomes

- 1. To explain and construe individual transportation technologies and describe their progress
- 2. To identify and compare the strengths, weaknesses, and effectiveness of individual branches of traffic
- 3. To interpret and identify the dependence of the traffic-technical characteristics of the transport infrastructure on the progress of the transport process
- 4. To identify operational problems in the transportation process and to explain how to solve them
- 5. To interpret the specifics of land transport technology and its emergent forms
- 6. To discuss the specifics of water transport technology and its emerging forms
- 7. To interpret air traffic technology and describe appropriate technological processes
- 8. To prepare and present a presentation on a particular transportation technology or a given traffic solution

1.4. Course Outline

Theoretical features of technology and traffic organization. The basics of maritime transport technologies. Fundamentals of inland waterway traffic technology. Fundamentals of road transport technology. Fundamentals of air traffic technology. Operational problems in the transport process. Transportation technologies and related technological processes.

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1.5. Modes of Instruction		X Lectures X Seminars and workshops X Exercises E-learning Field work		☐ Practical work ☐ Multimedia and Netw ☐ Laboratory ☐ Mentorship ☐ Other		edia and Network tory		
1.6. Commen	ts							
1.7. Student (Obligatio	ons						
The student must attend at least 70% of the total hours of lectures and exercises, create and present a seminar paper, and have passed the exams (continuous assessment) to take the final exam.						nt a		
1.8. Assessme	ent¹ of L	earning Outcomes						
Course attendance	1,5	Class participation		Seminar paper	r	0,5	Experiment	
Written exam		Oral exam	1,5	Essay			Research	
Project		Continuous Assessment	1,5	Presentation			Practical work	
Portfolio								

¹ **NOTE:** Name the proportion of ECTS credits for each activity so that the total number of ECTS credits is equal to the ECTS value of the course. Use empty fields for additional activities.

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1.9. Assessment of Learning Outcomes and Examples of Evaluation during Classes and on the Final Exam

The procedure for evaluating the acquired learning outcomes is carried out by the Regulations on Studies of the University of Rijeka and the Regulations on Studies at the Faculty of Maritime Studies in Rijeka as follows:

- 70% of the acquired learning outcomes within the 1st semester (25%), the 2nd semester (25%) and through the presentation of a research assignment seminars (20%) are evaluated through continuous assessment during the class; the student must score at least 50% of points in each midterm, and the presentation of the research assignment is evaluated based on elaborated evaluation criteria;
- at the final part of the exam, 30% of the obtained learning outcomes are evaluated whereby the student must pass at least 50% of the points for passing the final exam.

1.10. Main Reading

- 1. Zelenika, R.: Ekonomika prometne industrije, Ekonomski fakultet Sveučilišta u Rijeci, Rijeka, 2010.
- 2. Baričević, H.; Vilke, S.: Logistika i sigurnost kopnenog prometa, Pomorski fakultet u Rijeci, Rijeka, 2016.
- 3. Dundović, Č.: Pomorski sustav i pomorska politika, Pomorski Fakultet, Rijeka, 2005.
- 4. Radačić, Ž, i dr..: Tehnologija zračnog prometa I, Fakultet prometnih znanosti, Zagreb, 2008.

1.11. Recommended Reading

- 1. Baričević, H.: Tehnologija kopnenog prometa, Pomorski Fakultet, Rijeka, 2001.
- 2. Baričević, H: Promet u turizmu, Visoka škola za turistički Menadžment, Šibenik, 2003.
- 3. Badanjak, D., Bogović, B., Jenić, V.: Organizacija željezničkog prometa, Fakultet prometnih znanosti, Zagreb, 2006.
- 4. Županović, I.: Tehnologija cestovnog prometa, Fakultet prometnih znanosti, Zagreb, 2003.

1.12. Number of Main Reading Examples

Title	Number of examples	Number of students
Zelenika, R.: Ekonomika prometne industrije, Ekonomski fakultet u Rijeci, Rijeka, 2010.	10	55
Baričević, H.; Vilke, S.: Logistika i sigurnost kopnenog prometa, Pomorski fakultet u Rijeci, Rijeka, 2016.	10	55
Dundović, Č.: Pomorski sustav i pomorska politika, Pomorski Fakultet, Rijeka, 2005.	10	55
Radačić, Ž, i dr: Tehnologija zračnog prometa I, Fakultet prometnih znanosti, Zagreb, 2008	10	55

1.13. Quality Assurance

The quality of study is constantly monitored by the ISO 9001 system implemented at the Faculty of Maritime Studies in Rijeka. An analysis of the exams is made annually and a student survey is conducted once a semester.





3.2. Course description

Generic information					
Head of Course	Full Professor Tanja Poleta	Full Professor Tanja Poletan Jugović, Ph.D.			
Course	Trade routes	Trade routes			
Study Programme	Technology and Organization	Technology and Organization of Transport			
Level	Undergraduate/Bachelor				
Type of Course	Compulsory				
Year of Study	1				
Estimated Student Workload and Methods	ECTS coefficient of Student Workload		5		
of Instruction	Number of Hours (L+E+S)		30+15+0		

GENERAL COURSE DESCRIPTION

1.1. Course Objectives

The main objectives of the course are to acquire knowledge of the basic elements, principles and geotransport, socio-economic and logistical factors for formation and distribution of the trade routes; analysis of relevant indicators for the formation of trade routes in the world, with an emphasis on the maritime and the land transport, and gaining knowledge of the basic assumptions for attracting the trade routes and valorizing traffic routes in the transport services market.

1.2. Prerequisites for Course Registration

-

1.3. Expected Learning Outcomes

After passing the exam, students will be able to do the following:

- 1. Properly define basic elements, legality and particularities for the formation of the trade routes.
- 2. Differentiate types of the trade routes according to different criteria.
- 3. Describe and interpret the geo-traffic, socio-economic and other logistical factors for the scheduling and consolidation of the trade routes.
- 4. Explain the general and specific characteristics of the state of development of contemporary traffic at world, regional and national level.
- 5. To substantiate the significance of the components for the valorisation and competitiveness of the transport routes (corridors) in the transport services market.
- 6. Analyze and interpret the intensity, dynamics and directions (international, national) of the trade routes with an emphasis on the maritime routes and the corridors as well as the other types of the transport routes (land, river and air corridors).
- 7. Compare the intensity, dynamics and structure of the trade routes according to the transport modes, types of goods and directions of movement (at world, regional and national levels).
- 8. Analyze and demonstrate the conditionality for the formation of the trade routes on major maritime routes, land corridors and reference terminals (port, land....)



Practical work



Project

Portfolio

1.4. Course Outline Relevant theoretical elements and determinants of the formation and distribution of trade routes. Geotransport factors for the formation and distribution of the trade routes. Socio-economic factors for the formation and distribution of the trade routes. Other assumptions and criteria for the formation and distribution of the trade routes. The state and general characteristics of the trade routes in the world. International trade routes in the maritime transport. International trade routes in the land transport. International trade routes in the inland waterways transport. International trade routes in the air transport. XLectures | X Practical work Seminars and workshops Multimedia and Network 1.5. Modes of X Exercises Laboratory Instruction E-learning Mentorship Field work Other 1.6. Comments 1.7. Student Obligations Seminar paper, seminar presentation, 1st colloquium, 2nd colloquium, the final exam. 1.8. Assessment¹ of Learning Outcomes Course 1,5 Class participation 1 Experiment Seminar paper attendance Written exam 1 Oral exam Essay Research

1.9. Assessment of Learning Outcomes and Examples of Evaluation during Classes and on the Final Exam

1,5

Presentation

The procedure for evaluation of the acquired learning outcomes is carried out according to the Regulations on Studies of the University of Rijeka and the Regulations on Studies at the Faculty of Maritime Studies in Rijeka as follows:

- 70% of the acquired learning outcomes within the 1st colloquium (25%), the 2nd colloquium (25%) and through the presentation of a research assignment seminars (20%) are evaluated through continuous assessment during the class; the student must achieve at least 50% of points in each colloquium, and the presentation of the research assignment is evaluated on the basis of elaborated evaluation criteria;
- at the final exam 30% of the obtained learning outcomes are evaluated whereby the student must pass at least 50% of the points for passing the final exam.

Examples of evaluating learning outcomes in relation to the learning outcomes are:

1. Define the basic elements of the formation of maritime trade routes.

Continuous Assessment

- 2. Classify the trade routes according to the criterion of territorial coverage and orientation of the trade routes.
- 3. State the geo-traffic factors for the formation of the trade routes and argue for their relative or absolute significance.
- 4. List the leading maritime regions and associated major ports in the context of worldwide container cargo flows.

¹ **NOTE:** Name the proportion of ECTS credits for each activity so that the total number of ECTS credits is equal to the ECTS value of the course. Use empty fields for additional activities.



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- 5. List and explain the economic and qualitative criteria (sub-criteria) in examining the competitiveness of the intermodal transport route.
- 6. Define and display the most significant maritime routes of the liquid cargo flows in the world.
- 7. Explain the intensity, structure and dynamics of the trade routes, using the example of a selected seaport.
- 8. Formulate and systematize commodity affirmation factors using the example of the Pan-European Corridor V Branch Vb.

1.10. Main Reading

- Tanja Poletan Jugović, "Robni tokovi", Pomorski fakultet, Sveučilište u Rijeci, 2014.
- Course materials available at e-learning platform Merlin (https://moodle.srce.hr)

1.11. Recommended Reading

- Jean-Paul Rodrigue "The Geography of Transport Systems", Fourth Edition, (2017), New York, selected chapters; https://transportgeography.org/
- Statistic sources with recent statistical data (available at web): Statistical Yearbook of the Republic of Croatia, Croatian Bureau of Statistics, CRO, Zagreb etc.

1.12. Number of Main Reading Examples

Title	Number of examples	Number of students
Tanja Poletan Jugović , "Robni tokovi", Pomorski fakultet, Sveučilište u Rijeci, 2014.	5	55
Course materials available at e-learning platform Merlin (https://moodle.srce.hr)	+	55

1.13. Quality Assurance

The quality of study is constantly monitored in accordance with the ISO 9001 standard implemented at the Faculty of Maritime Studies in Rijeka. An analysis of the exams is made annually, and a student survey is conducted once a semester.

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3.2. Course description

	Generic information					
Head of Course	Darko Glažar, PhD					
Course	Ship design and construction	Ship design and construction				
Study Programme	Technology and Organization	Technology and Organization of Transport				
Level	Undergraduate degree programme					
Type of Course	Mandatory					
Year of Study	1 st					
Estimated Student	ECTS coefficient of Student Workload 5					
Workload and Methods of Instruction	Number of Hours (L+E+S)	Number of Hours (L+E+S) 45 + 15 + 0 (3 + 1 + 0)				

1. GENERAL COURSE DESCRIPTION

1.1. Course Objectives

The objective of the course is to acquaint students with the basic ship's dimensions and measures, transversal and longitudinal constructional elements, elementary conception of ship's strength and constructional features of different type of ships.

1.2. Prerequisites for Course Registration

No prerequisites

1.3. Expected Learning Outcomes

It is expected that the student will be able to:

- 1. Parse and apply International rules for ship's construction and historical development.
- 2. Parse and analyse type of ship construction, structural elements of longitudinal and transversal ship's strength.
- 3. Parse and define cargo system, ship's equipment and ship's cargo handling equipment for different type of ships.
- 4. Parse and apply basic ship's dimensions and measures.
- 5. Properly apply the knowledge gained from the structural elements of longitudinal and transversal ship's strength in ship drawings and design.
- 6. Properly analyse ship's division toward purpose, type of cargo, navigational water categories, construction material, nature of shipping service, etc.
- 7. Define and parse technical and technological characteristics for different types of ships.

1.4. Course Outline

International rules for ship construction and historical development. Construction materials, welding, bulkheads, watertight bulkhead, watertight door. Type of ships. Structural elements of longitudinal and transversal ship's strength. Strength and stress of ship structure. Ship compartments, cargo compartments, navigation bridge and engine room. Ship's cargo handling equipment for different type of ships. Ship's operational equipment.



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Type of rudders, remarks for different kind of rudders, propeller execution with main particularities. Geometrical ship's dimensions and measures. Ship drawings and design. General plan of ship with different system technology. Wind surface and under water area. Ship's division toward purpose, type of cargo, navigational water categories, construction material, nature of shipping service, etc. Technical and technological characteristics for General Cargo ships, Container Ships, Ro-Ro vessels, Bulk Carriers, Oil/Oil products and Chemical Tankers, Gas takers, Passenger liner and cruise ships and offshore vessels with different purpose and service.

-		Chemical Tankers, Gas taken se and service.	rs, Pas	senger liner and c	ruise shi _l	os and offshore ves	sels
1.5. Modes of Instructio		☑ Lectures☑ Seminars and workshops☑ Exercises☑ E-learning☑ Field work			☐ Practical work ☐ Multimedia and Network ☐ Laboratory ☐ Mentorship ☐ Other		
1.6. Commen	ts	·					
1.7. Student C	Obligatio	ons					
		classes over 70 %. Longitud xams. Final oral exams.	dinal aı	nd transversal shi	p drawin	g – student task.	
1.8. Assessme	n¹t of L	earning Outcomes					
Course 2 Class participation Seminar paper Experiment							
Written exam		Oral exam	1	Essay		Research	
Project		Continuous Assessment	2	Presentation		Practical work	
Portfolio							

1.9. Assessment of Learning Outcomes and Examples of Evaluation during Classes and on the Final Exam

70 % of the course grade is based through 2 written exams in class and 30 % of the course grade is based in the oral final exam according to the Regulations on Studies of the University of Rijeka and the Regulations on Studies at the Faculty of Maritime Studies in Rijeka.

Continuous assessment: Each written exam must have at least 60 % score.

Final oral exam (learning outcomes 1-7) checks the competences of theoretical knowledge where it is necessary to achieve a minimum of 50 % of the required theoretical knowledge.

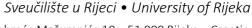
1.10. Main Reading

- 1. Komadina, P., Brodovi multimodalne prijevozne tehnologije, Pomorski fakultet u Rijeci, Rijeka, 2001.
- 2. Komadina, P., Ro-Ro brodovi, Pomorski fakultet u Rijeci, Rijeka, 2001.
- 3. Komadina, P., Tankeri, Pomorski fakultet u Rijeci, Rijeka, 1994.
- 4. Buljan, I., Stabilnost brodova, Priručnik za pomorce, Školska knjiga Zagreb, Zagreb, 1982.

1.11. Recommended Reading

- 1. Vademecum Maritimus, Podsjetnik pomorcima, Pomorski fakultet u Rijeci, Rijeka, 2002.
- 2. Uršić, J., Stabilitet broda I. dio, Sveučilište u Zagrebu, Zagreb, 1968.
- 3. Uršić, J., Stabilitet broda II. dio, Sveučilište u Zagrebu, Zagreb, 1968.
- 4. Fatur, J., Teorija broda, Uredništvo časopisa Brodogradnja, Zagreb, 1954.
- 5. Milošević, M., i Š., Osnove teorije broda 1, Sveučilište u Zagrebu, Zagreb, 1981.
- 6. Milošević, M., i Š., Osnove teorije broda 2, Sveučilište u Zagrebu, Zagreb, 1981.
- 7. Barrass, B., Derrett, D. R., Ship stability for Masters and Mates, Elsevier, 2008.
- 8. Eyres, D. J., Ship Construction, Butterworth-Heinemann, London, 2007

¹ **NOTE**: Name the proportion of ECTS credits for each activity so that the total number of ECTS credits is equal to the ECTS value of the course. Use empty fields for additional activities.





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1.12. Number of Main Reading Examples		
Title	Number of examples	Number of students
Teaching materials from the course Ship design and construction	MERLIN – online	
Ro-Ro brodovi	10	
Brodovi multimodalne prijevozne tehnologije	10	
Stabilnost broda	10	1
Tankeri	10]
1 12 Quality Assurance		

1.13. Quality Assurance

The quality of study is monitored in accordance with the ISO 9001 system and in accordance with the European standards and guidelines for quality assurance carried out at the Faculty of Maritime Studies in Rijeka. Once a year, exam passing results are analysed and appropriate measures are adopted.



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3.2. Course description

Generic information						
Head of Course	Maja Redžić, mag.cin.	Maja Redžić, mag.cin.				
Course	Physical education 1					
Study Programme	Technology and Organization of Transport					
Level	UNDERGRADUATE DEGREE PROGRAMME					
Type of Course	core					
Year of Study	1 st					
Estimated Student	ECTS coefficient of Student Workload	ECTS coefficient of Student Workload 1				
Workload and Methods of Instruction	Number of Hours (L+E+S) 0+30+0 (0+2+0)					

GENERAL COURSE DESCRIPTION

1.1. Course Objectives

The goals of physical and health culture are:

- acquaintance with the principles of biopsychosocial characteristics of man
- acquiring knowledge about the factors that cause illnesses and injuries
- adopting a certain fund of motor information necessary for a more meaningful use of leisure time
- meeting the biopsychosocial human need for movement
- building humane interpersonal relationships
- increase of creative ability and adaptation to contemporary living and working conditions
- by training appropriate programs to train a person for independent and responsible care for the preservation and promotion of personal health, work and other abilities
 - 1.2. Prerequisites for Course Registration

1.3. Expected Learning Outcomes

- 1. Positive influence on anthropological characteristics (anthropometric characteristics)
- 2. Improve the acquisition of general and specific motor skills, knowledge, skills and habits
- 3. Apply, use preserving and promoting health
- 4. Maintain health status by exercising

1.4. Course Outline

Knowing the health status of students. Measurement and testing of motor skills and functional abilities. Passing and throwing the ball into the basket (K). Classic aerobics. Development of general motor skills. Ball manipulation (K). Elements of attack and defense (O). Closing the basket and catching the deflected ball (K). Basketball rules and application in the game. Improper posture - exercise and prevention. Preparatory Volleyball - Multiplayer play over the net (O). Basic elements of voga. Development of an individual's creative abilities in sports expression in an individual sport

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1.5. Modes o Instruction		Lectures Seminars and workshop X Exercises E-learning Field work) [[[Practical v	vork ia and Network y	
1.6. Comn	nents	Seminar paper is written by part-time students.				
1.7. Student (Obligatio	ons				
Active class	attenda	nce and activity in at least 70% of	of classes.			
1.8. Assessm	ent¹ of L	earning Outcomes				
Course attendance	1	Class participation	Seminar paper	E.	xperiment	
Written exam		Oral exam	Essay	R	esearch	
Project		Continuous Assessment	Presentation	Р	ractical work	
Portfolio						
monitors ea	movemer ich (non) Records.	nt is positively evaluated during t arrival and activity of the studer The College of Physical and He	nt on a separate whole	semester's Ph	ysical and Health	า
1.10. Main Re	rading					
1.11. Recomn	nended I	Reading				
2018 2. Findak ' 3. Anderso tenis, bicik 4. Anderso	V.: Meto on B.: St dizam, s on B., B	ić M.: Križobolja i tjelesno v odika tjelesne i zdravstvene k retching, Vježbe istezanja za skijanje, košarka, nogomet i o urke E., Pearl B.: Fitnes za sv . Marelić.: Odbojka, Fakultet	culture, Školska knjig svakodnevni fitness ostale sportove, Gopa /e, Gopal, d.o.o., Zag	ga Zagreb, 19 : trčanje, pliv Il, d.o.o., Zag greb, 1997.	99. vanje, greb, 1997.	

¹ **NOTE:** Name the proportion of ECTS credits for each activity so that the total number of ECTS credits is equal to the ECTS value of the course. Use empty fields for additional activities.

6. Kosinac, Z.: Kineziterapija, tjelesno vježbanje i sport kod djece i omladine oštećena zdravlja,

1995.

Split, 1989.



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1.12. Nu	mber of Main Reading (Examples)		
	Title	Number of examples	Number of students
1.13.	Quality Assurance		

The quality of study is monitored in accordance with the ISO 9001 system and in accordance with European standards and guidelines for quality assurance carried out at the Faculty of Maritime Studies in Rijeka. Once a year, the results of the transience are analyzed and appropriate measures are adopted.



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3.2. Course description

Generic information					
Head of Course	Mirjana Borucinsky, PhD				
Course	English Language 2				
Study Programme	Technology and Organization of Transport				
Level	Undergraduate degree programme				
Type of Course	Core				
Year of Study	1				
Estimated Student ECTS coefficient of Student Workload		Workload	4		
Workload and Methods of Instruction	Number of Hours(L+E+S)		15+30+0		

1.GENERAL COURSE DES	CRIPTION				
1.1. Course Objective					
_	•	tten and oral communication in English language dimensions, as well as the basics of engineering			
1.2. Prerequisites for	Course Registration				
Passing the exam for	English Language 1.				
1.3. Expected Learnin	g Outcomes				
 Show the four be (independent use) Demonstrate languar transport in English Transform active in Express real and present in Express	r) according to the Common Europear guage knowledge and skills for perfor sh. statements into passive. possible events using conditional claus	ng, writing, listening and speaking on B1 level Framework of Reference for Languages (CEF). ning professional work in maritime business and			
1.4. Course Outline					
selected professional writ	tten and spoken texts about the follo tion, parts of a ship, ship dimensions, in transport.	(modal verbs, passive, conditional clauses) in wing extra-linguistic topics: types of ships, basic mathematical symbols and reading mathematical			
1.5. Modes of Instruction Seminars and workshops Multimedia and Network Multimedia and Network Laboratory Mentorship Mentorship Other					
1.6. Comments					
1.7. Student Obligations					

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1st midterm exam, 2nd midterm exam, final exam

1.8. Assessment¹ of Learning Outcomes

Course attendance	1,5	Class participation		Seminar paper	Experiment	
Written exam		Oral exam	1	Essay	Research	
Project		Continuous Assessment	1,5	Presentation	Practical work	
Portfolio						

1.9. Assessment of Learning Outcomes and Examples of Evaluation during Classes and on the Final Exam

The procedure of assessment of learning outcomes is performed according to the University of Rijeka Regulations on the Studies and the Regulations on the Studies of the Faculty of Maritime Studies in the following way:

- 70 % of outcomes are assessed through continuous assessment in class. The 1st midterm exam assesses the outcomes 1, 2 and 3 (35 %), while the 2nd midterm exam assesses the outcomes 4 and 5 (35 %). The students need to gain at least 50 % of points on each midterm exam.
- The final exam assesses 30 % of learning outcomes (1-5), whereby the student must gain at least 50 % of points to pass.

Examples of outcome assessment in relation to the set outcomes are:

- 1. After reading the given text, answer the following: What are the main characteristics of bulk carriers?
- 2. Using modal verbs, give instructions, orders and requests.
- 3. Transform active statements into passive.
- 4. Express real and possible events using conditional clauses.
- 5. Translate simple sentences from English into Croatian, using a dictionary.

1.10. Main Reading

- 1. Capt. Sheppard, T. S., Evans, V., Dooley, J. 2013. Merchant Navy. Express Publishing.
- 2. Luzer, J.; Spinčić, A. 2001. Gramatička vježbenica za pomorce. Rijeka: Pomorski fakultet.
- 3. Van Kluijven, P. C. 2003. *The International Maritime Language Programme*. Alkmaar: Alk & Heijnen Publishers, pp. 62-97.
- 4. Teaching material available on the e-learning platform Merlin.
- 5. MarEng

1.11. Recommended Reading

1. Wieslawa, B. 2014. Marine Engine English Underway. Dokmar Maritime Publishers

1.12. Number of Main Reading Examples

Title	Number of examples	Number of students
Capt. Sheppard, T. S., Evans, V., Dooley, J. 2013. <i>Merchant</i> <i>Navy</i> . Express Publishing	5	55
Luzer, J.; Spinčić, A. 2001. <i>Gramatička vježbenica za pomorce</i> . R fakultet.	5	55
Van Kluijven, P. C. 2003. <i>The International Maritime Language Programme</i> . Alkmaar: Alk & Heijnen Publishers, pp. 62-97.	5	55
Teaching material available on the e-learning platform Merlin.	-	55

¹ **NOTE**: Name the proportion of ECTS credits for each activity so that the total number of ECTS credits is equal to the ECTS value of the course. Use empty fields for additional activities.



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1.13. Quality Assurance

The quality of the course is monitored in accordance with the ISO 9001 system implemented at the Faculty of Maritime Studies in Rijeka. Once a year, the results of the course are analyzed and a survey is conducted among the students once per semester.

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and pass the final exam.

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Table 2.

3.2. Course description

Generic information						
Head of Course	Ines Kolanović, Full Professor					
Course	Maritime System					
Study Programme	Technology and Organization of Transport					
Level	Undergraduate Level	Undergraduate Level				
Type of Course	Mandatory					
Year of Study	1. Semester			II.		
Estimated Student	ECTS coefficient of Student Workload		4			
Workload and Methods of Instruction	Number of Hours (L+E+S)		30 + 0 + 15			

L. GENERAL COURSE DESCRIPTION							
1.1. Course Objective	1.1. Course Objectives						
-	rse is to provide student knowledge of the ba h the importance of applying a systematic app ese systems.	•					
1.2. Prerequisites for	Course Registration						
-							
1.3. Expected Learnin	g Outcomes						
 Properly interpret the To classify and system Recognize and interpr To argue the place an of Croatia 	 It is expected that the student will be able: Properly interpret the basic concepts: maritime industry, system, maritime system, maritime economy To classify and systematically analyze system types according to different criteria Recognize and interpret the importance of a systematic approach in the study of the maritime system To argue the place and role of the maritime system in the transport and economic system of the Republic of Croatia Analyze and explain the structure of individual activities of the maritime system 						
	es. Systematic approach and systematic appro	pach principles. The place and role of					
	the economic and transport system of the nic and non-economic activities of the maritime	•					
+ Lectures + Practical work Seminars and workshops Multimedia and Network Laboratory Mentorship Mentorship Other							
1.6. Comments							
1.7. Student Obligations							
Students are obliged to: attend at least 70% of classes, take part-tests, make a presentation on a given topic							

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1.8. Assessment of Learning Outcomes							
Course attendance	1,5	Class participation		Seminar paper		Experiment	
Written exam	0,5	Oral exam		Essay		Research	
Project		Continuous Assessment	1,5	Presentation	0,5	Practical work	
Portfolio							

1.9. Assessment of Learning Outcomes and Examples of Evaluation during Classes and on the Final Exam

The final grade is the sum of the points that student has achieved during the course (70% of the grade) and the points earned on the final exam (30% of the grade) according to the studies regulations at the University of Rijeka and at the Faculty of Maritime Studies in Rijeka.

- Continuous assessment:
 - 2 mid-terms a minimum of 50% of the estimated number of points is required
 - presentation and defense of the presentation (individual assignment) it is necessary to achieve at least 50% of the estimated number of points
- Final exam:
 - Final exam checks the completeness of knowledge it is necessary to achieve a minimum of 50% of points.

Examples of Assessment of Learning Outcomes:

- 1. To define the terms: maritime industry, system, maritime system, maritime economy (LO1)
- 2. To explain system types according to the selected criterion (LO2)
- 3. Apply the principles of systematic approach (LO3) in a concrete example
- 4. To explain the relationship of the selected maritime subsystem to the maritime and economic system in the Republic of Croatia (LO4)
- 5. To analyze the technical and technological level of the seaport system as a subsystem of the maritime system (LO5)
 - 1.10. Main Reading
- 1. Dundović, Č.: Pomorski sustav i pomorska politika, sveučilišni udžbenik, Pomorski fakultet u Rijeci. Rijeka, 2003.
 - 1.11. Recommended Reading
- 1. Dundović, Č., Poletan-Jugović, T., Jugović, A., Hess, S.: Integracija i koordinacija lučkog i prometnog sustava Republike Hrvatske, Znanstvena monografija, Pomorski fakultet u Rijeci, Rijeka, 2006.
 - 1.12. Number of Main Reading Examples

Title	Number of examples	Number of students
Pomorski sustav i pomorska politika	11	50

1.13. Quality Assurance

The quality of study is continuously monitored in accordance with the requirements of ISO 9001 and in accordance with the European Standards and Guidelines for Quality Assurance conducted at the Faculty of Maritime Studies in Rijeka. At the end of the semester, student evaluations are conducted in accordance with the Study Quality Manual at the University of Rijeka.



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3.2. Course description

Generic information					
Head of Course	Mato Tudor, Ph.				
Course	Applied computer science				
Study Programme	Technology and Organization of Transport				
Level	Undergraduate degree programme				
Type of Course	Obligatory				
Year of Study	1.				
Estimated Student	ECTS coefficient of Student Workload		5		
Workload and Methods of Instruction	Number of Hours (L+E+S)		30+30+0		

1. GENERAL COURSE D	ESCRIPTION	
1.1. Course Objectiv	ves	
computers in word proce	essing and drafting spreadsheets. Trainii	ter operation as well as knowledge about using ng students to solve problems with a computer using program packages to develop programs.
1.2. Prerequisites fo	or Course Registration	
No		
1.3. Expected Learn	ing Outcomes	
 Describe different Use the application Use the application 	students will be able to: sic concepts of the structure and principal types of computer software support In program MS word for text processing In program MS Excel for spreadsheets In in Just Basic programming language as	
1.4. Course Outline		
hardware. Input / output System software support. Basic). Utilities. Applicat problems with computer	units. Computer working memory. Stord Operating System (MS Windows). Softw ion software. Word processor (MS Wo . Algorithms and programs. Elements o	erical systems. Logical expressions. Computer age memory. Central processing unit. Software. vare development (program development in Just ord). Spreadsheet program (MS Excel). Solving f algorithms. Describing algorithms. Algorithm wes of the algorithm and their description in Just
1.5. Modes of Instruction	∠LecturesSeminars and workshopsExercisesE-learningField work	Practical work Multimedia and Network Laboratory Mentorship Other
1.6. Comments		
1.7 Student Ohliga	tions	

The student is obliged to actively attend lectures and exercises and be present in at least 70% of classes. All

continuous assessment affect the grade, and none are satisfied with less than 50%.



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1.8. Assessment ¹ of Learning Outcomes							
Course attenda nce	2	Class participation		Seminar paper		Experiment	
Written exam		Oral exam	1	Essay		Research	
Project		Continuous Assessment	2	Presentation		Practical work	
Portfolio							

1.9. Assessment of Learning Outcomes and Examples of Evaluation during Classes and on the Final Exam

The procedure for evaluating the acquired learning outcomes is carried out in accordance with the Regulations on Studies of the University of Rijeka and the Regulations on Studies at the Faculty of Maritime Studies in Rijeka as follows:

• During the course of the course, 70% of the learning outcomes obtained are evaluated through three proficiency tests, each of which must be positive (at least 50%).

The first proficiency test involves learning the learning outcomes of using the MS Word application program - 3rd learning outcome (25%):

Examples of checking 3rd learning outcomes:

Using the MS Word application format the given text.

The second knowledge test involves learning the learning outcomes of using an MS Excel spreadsheet application - 4th learning outcome (25%).

Examples of checking 4th learning outcomes:

Using the MS Excel application, draw a graph for the given data.

The third check involves checking the 5th learning outcome (20%) on writing algorithms in Just Basic as a solution to a given problem.

Example of checking 5th learning outcomes:

- Write a program that will load 50 numbers and print the smallest number loaded.
- In the final part of the exam, 30% of the learning outcomes are evaluated. Student must have minimum of 50% to pass the final exam. The final exam checks the 1st and 2nd and the learning outcomes.

Examples of learning outcomes 1 and 2:

- Explain the basic characteristics of the processor.
- Describe the different types of application software.

1.10. Main Reading

- Tudor, M. Primjena elektroničkih računala, University of Rijeka, Faculty for Maritime Studies, Rijeka,
 2010.
- Course material available on the eLearning system Merlin (https://moodle.srce.hr)

1.11. Recommended Reading

- Tudor, M. Osnove primjene računala, University of Rijeka, Faculty for Maritime Studies Rijeka, 2003.
- Grundler, D. Primijenjeno računalstvo, Graphis, Zagreb, 2000.
- Grundler et al, ECDL, Osnovni program, PRO-MIL d.o.o., Varaždin, 2005.

¹ **NOTE:** Name the proportion of ECTS credits for each activity so that the total number of ECTS credits is equal to the ECTS value of the course. Use empty fields for additional activities.



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1.12. Number of Main Reading Examples		
Title	Number of	Number of students
Tudor, M. Primjena elektroničkih računala, University of Rijeka, Faculty for Maritime Studies, Rijeka, 2010.	5	55
Course material available on the eLearning system - Merlin (https://moodle.srce.hr)		

1.13. Quality Assurance

The quality of study is monitored in accordance with the ISO 9001 system and in accordance with European standards and guidelines for quality assurance carried out at the Faculty of Maritime Studies in Rijeka. Once a semester, a student survey is conducted. Once a year, the results of the transience are analyzed and appropriate measures are adopted.



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3.2. Course description

	Generic information			
Head of Course	Assoc. Prof. Goran Vukelić			
Course	Engineering Mechanics			
Study Programme	Technology and Organization	on of Transport		
Level	Undergraduate			
Type of Course	Compulsory			
Year of Study	1			
Estimated Student	ECTS coefficient of Student V	Vorkload	5	
Workload and Methods of Instruction	Number of Hours (L+E+S)		2+2	

1.	GENERAL COURSE DES	SCRIPTION	
	1.1. Course Objectives	S	
	Acquiring theoretical kinematics and dynam	•	m solving in the field of solid mechanics statics,
	1.2. Prerequisites for	Course Registration	
	None.		
	1.3. Expected Learnin	g Outcomes	
	 Applying the laws friction(less) surfaces Dimensioning of lot Analyzing the strein 	s. paded beams. ngth of a loaded beam. of mechanics onto the particle motion	determining the reactions of rigid bodies on
	1.4. Course Outline		
	body. Moment of a systheorems. Beams and Normal and tangential bending, buckling. Dim Coordinate system and rectilinear and curvilin	stem of forces. Force couple. Analysis trusses. I stress. Stress and strain dependence nensioning of beams and shafts. Id position of a body within. Motion. D	orces. Resultant of a forces and equilibrium of a of a system of forces. Friction. Pappus-Guldin Allowed stress. Axial load, shear stress, torsion, egrees of freedom. Kinematics of a particle:
	1.5. Modes of Instruction	✓ Lectures✓ Seminars and workshops✓ Exercises✓ E-learning✓ Field work	☑ Practical work☑ Multimedia and Network☑ Laboratory☑ Mentorship☑ Other
	1.6. Comments	-	



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1.7. Student Obligations

Attending the lectures and exercises (min. 70%), attending the assessment and exams, submitting results of assignments.

1.8. Assessment 1 of Learning Outcomes

Course attendance	2	Class participation	0.5	Seminar paper		Experiment	
Written exam	1	Oral exam		Essay		Research	
Project		Continuous Assessment	1.5	Presentation		Practical work	
Portfolio							

¹ **NOTE:** Name the proportion of ECTS credits for each activity so that the total number of ECTS credits is equal to the ECTS value of the course. Use empty fields for additional activities.



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1.9. Assessment of Learning Outcomes and Examples of Evaluation during Classes and on the Final Exam

According to the study rulebooks of University of Rijeka and Faculty of Maritime Studies:

- •through continuous assessment during the semester (70% of learning outcomes)
 - 1. colloquium learning outcomes 1-2 (25%),
 - 2. colloquium learning outcomes 3-4 (25%),
 - short tests learning outcomes 1-6 (20%),
- •through final exam (30% of learning outcomes (5-6)) with passing rate set at min. 50% of final exam points.

Examples of evaluation in correlation to learning outcomes:

- Determine equilibrium of a body exposed to a system of forces.
- Determine free body diagram of a rigid body.
- 3. Dimensioning of a beam loaded with axial load, bending or torsional moment.
- 4. Comparing actual stress and strain with allowed stress and strain.
- Determine motion equilibrium of a rigid body in planar movement.
- 6. Comparing the motion of several bodies based on a set criterion.

1.10. Main Reading

Brnić, J.: Mehanika i elementi konstrukcija, Školska knjiga, Zagreb, 1996.

Jecić, S.: Kinematika i dinamika, Tehnička knjiga, Zagreb, 1995.

1.11. Recommended Reading

Brnić, J.: Statika, Sveučilište u Rijeci, Tehnički fakultet, Rijeka, 2004.

J. Brnić, G. Turkalj: Nauka o čvrstoći I, Sveučilište u Rijeci, Tehnički fakultet, Rijeka, 2004.

Žigulić, R, Braut, S.: Kinematika, Sveučilište u Rijeci, Tehnički fakultet, Rijeka, 2012.

Krpan, M., Butković, M., Žigulić, R., Braut, S., Franulović, A.: Dinamika, Sveučilište u Rijeci, Tehnički fakultet, Rijeka, 2001.

1.12. Number of Main Reading Examples

Title	Number of examples	Number of students
Brnić, J.: Mehanika i elementi konstrukcija	5	55
Jecić, S.: Kinematika i dinamika, Tehnička knjiga, Zagreb, 1995.	5	55

1.13. Quality Assurance

According to ISO 9001 system set at Faculty of Maritime Studies, Rijeka. Once a year analysis of passing exam rate. Once a semester anonymous students online survey.



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3.2. Course description

	Generic information				
Head of Course	Maja Redžić, mag.cin.				
Course	Physical education 2				
Study Programme	Technology and Organization of Transport				
Level	UNDERGRADUATE DEGREE PROGRAMME				
Type of Course	core				
Year of Study	1 st				
Estimated Student	ECTS coefficient of Student Workload	1			
Workload and Methods of Instruction	Number of Hours (1+F+S)				

GENERAL COURSE DESCRIPTION

1.1. Course Objectives

The goals of physical and health culture are:

- acquaintance with the principles of biopsychosocial characteristics of man
- acquiring knowledge about the factors that cause illnesses and injuries
- adopting a certain fund of motor information necessary for a more meaningful use of leisure time
- meeting the biopsychosocial human need for movement
- building humane interpersonal relationships
- increase of creative ability and adaptation to contemporary living and working conditions
- by training appropriate programs to train a person for independent and responsible care for the preservation and promotion of personal health, work and other abilities

1.2. Prerequisites for Course Registration

Prerequisite for enrollment is a passed Physical and Health Education course 1

1.3. Expected Learning Outcomes

- 1. Positive impact on functional abilities
- 2. Develop more meaningful use of spare time
- 3. Evaluate and develop solving everyday motor tasks
- 4. To choose the possibility of solving motor tasks in urgent situations

1.4. Course Outline

Low and high start (technique refinement), cycling at different tempo. Heart rate measurement at rest, after exertion (running) and after running (2 minutes after running). Throwing the ball into the basket with special emphasis on precision (K). Service (upper and lower). Jump with the screw in place and move. Development of general motor skills (movement coordination, flexibility). Volleyball Element Technique (O). Hi aerobic. Volleyball Rules and Application (O). Work in basketball motor development teams (K). Realization of counter attack (K). Corrective gymnastics. Situational passing and lifting the ball (O). Testing and monitoring of motor skills and functional abilities.

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1.5. Modes of Instruction		Lectures Seminars and workshop X Exercises E-learning Field work	os	Practical work Multimedia and Network Laboratory Mentorship Other	
1.6. Comn	nents				
1.7. Student (Obligatio	ons			
Active class	attenda	nce and activity in at least 70% o	of classes.		
1.8. Assessmo	ent¹ of L	earning Outcomes			
Course attendance	1	Class participation	Seminar paper	Experiment	
Written exam		Oral exam	Essay	Research	
Project		Continuous Assessment	Presentation	Practical work	
Portfolio					
College is n The motor r monitors ea	ot grade movemer ich (non) Records.	nt is positively evaluated during t arrival and activity of the studen The College of Physical and Hea	he course of the student. E	Each teaching hour accurat nester's Physical and Health	ely h
1.10. Main Re	rading				
1.11. Recomm	nended F	Reading			
2018 2. Findak V 3. Anderso tenis, bicik 4. Anderso	V.: Meto on B.: St dizam, s on B., B	ić M.: Križobolja i tjelesno vj odika tjelesne i zdravstvene k retching, Vježbe istezanja za skijanje, košarka, nogomet i o urke E., Pearl B.: Fitnes za sv Marelić.: Odbojka, Fakultet	ulture, Školska knjiga Z svakodnevni fitness: trč ostale sportove, Gopal, d ze, Gopal, d.o.o., Zagreb	fagreb, 1999. ganje, plivanje, l.o.o., Zagreb, 1997. g, 1997.	

Split, 1989.

6. Kosinac, Z.: Kineziterapija, tjelesno vježbanje i sport kod djece i omladine oštećena zdravlja,

¹ **NOTE:** Name the proportion of ECTS credits for each activity so that the total number of ECTS credits is equal to the ECTS value of the course. Use empty fields for additional activities.



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1.12. Nui	mber of Main Reading (Examples)		
	Title	Number of examples	Number of students
1.13.	Quality Assurance		

The quality of study is monitored in accordance with the ISO 9001 system and in accordance with European standards and guidelines for quality assurance carried out at the Faculty of Maritime Studies in Rijeka. Once a year, the results of the transience are analyzed and appropriate measures are adopted.



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3.2. Course description

	Generic information			
Head of Course	Mirjana Borucinsky, PhD			
Course	English Language 3			
Study Programme	Technology and Organization	on of Transport		
Level	Undergraduate degree pro	gramme		
Type of Course	Core			
Year of Study	2			
Estimated Student	ECTS coefficient of Student	Workload	4	
Workload and Methods of Instruction	Number of Hours(L+E+S)		15+30+0	

1.6ENERAL COURSE DESCRIPTION 1.1. Course Objectives The goal of the course is to develop the students' ability for written and oral communication in English language using the basic terminology related to the types of cargo, technology of ports and terminals and technology of cargo handling, warehousing and customs clearance. 1.2. Prerequisites for Course Registration Successful completion of English Language 2. 1.3. Expected Learning Outcomes After passing the exam, the students will be able to do the following: 1. Show the four basic language skills in English: reading, writing, listening and speaking on B2 level (independent user) according to the Common European Framework of Reference for Languages (CEF). 2. Demonstrate language knowledge and skills for performing professional work in maritime business and transport in English. 3. Notice and explain the differences in English and Croatian terminology related to the means of transport and transhipment. 4. Use plural of nouns, comparison of adjectives and adverb correctly in descriptions. 5. Translate simple sentences dealing with vocational topics from English into Croatian, using a dictionary. 1.4. Course Outline Professional terminology and relevant elements of grammar (nouns, adjectives, pronouns, adverbs) in selected professional written and spoken texts about the following extra-linguistic topics: types of cargo, technology of ports ad terminals, cargo handling technology and means of transport and transhipment, warehousing and customs. 1.5. Modes of Seminars and workshops Multimedia and Network Multimedia and Network Seminars and workshops Multimedia and Network Laboratory Elearning Multimedia and Network Laboratory Elearning Mentorship Field work 1.6. Comments	of instruction			
The goal of the course is to develop the students' ability for written and oral communication in English language using the basic terminology related to the types of cargo, technology of ports and terminals and technology of cargo handling, warehousing and customs clearance. 1.2. Prerequisites for Course Registration Successful completion of English Language 2. 1.3. Expected Learning Outcomes After passing the exam, the students will be able to do the following: 1. Show the four basic language skills in English: reading, writing, listening and speaking on B2 level (independent user) according to the Common European Framework of Reference for Languages (CEF). 2. Demonstrate language knowledge and skills for performing professional work in maritime business and transport in English. 3. Notice and explain the differences in English and Croatian terminology related to the means of transport and transhipment. 4. Use plural of nouns, comparison of adjectives and adverb correctly in descriptions. 5. Translate simple sentences dealing with vocational topics from English into Croatian, using a dictionary. 1.4. Course Outline Professional terminology and relevant elements of grammar (nouns, adjectives, pronouns, adverbs) in selected professional written and spoken texts about the following extra-linguistic topics: types of cargo, technology of poorts ad terminals, cargo handling technology and means of transport and transhipment, warehousing and customs. 1.5. Modes of Instruction				
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After passing the exam, the students will be able to do the following: 1. Show the four basic language skills in English: reading, writing, listening and speaking on B2 level (independent user) according to the Common European Framework of Reference for Languages (CEF). 2. Demonstrate language knowledge and skills for performing professional work in maritime business and transport in English. 3. Notice and explain the differences in English and Croatian terminology related to the means of transport and transhipment. 4. Use plural of nouns, comparison of adjectives and adverb correctly in descriptions. 5. Translate simple sentences dealing with vocational topics from English into Croatian, using a dictionary. 1.4. Course Outline Professional terminology and relevant elements of grammar (nouns, adjectives, pronouns, adverbs) in selected professional written and spoken texts about the following extra-linguistic topics: types of cargo, technology of ports ad terminals, cargo handling technology and means of transport and transhipment, warehousing and customs. 1.5. Modes of Instruction Notice and explain the differences in English and Croatian terminology related to the means of transport and explain the means of transport and transhipment, warehousing and customs.	1.2. Prerequisites for C	Course Registration		
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Professional terminology and relevant elements of grammar (nouns, adjectives, pronouns, adverbs) in selected professional written and spoken texts about the following extra-linguistic topics: types of cargo, technology of ports ad terminals, cargo handling technology and means of transport and transhipment, warehousing and customs.	 Show the four back (independent user) Demonstrate languary transport in English Notice and explain and transhipment. Use plural of nounces. Translate simple seen 	asic language skills in English: read) according to the Common Europea uage knowledge and skills for perfo h. I the differences in English and Croa s, comparison of adjectives and adve	ding, writing, listening and speaking Framework of Reference for Langurming professional work in maritimation terminology related to the meaterb correctly in descriptions.	uages (CEF). e business and ns of transport
1.5. Modes of	Professional terminology a professional written and s	poken texts about the following ex	tra-linguistic topics: types of cargo,	, technology of
1.6. Comments	_	Seminars and workshops Exercises E-learning	Multimedia and Net Laboratory Mentorship	:work
·	1.6. Comments			

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1.7. Student Obligations

1st midterm exam, 2nd midterm exam, final exam

1.8. Assessment¹ of Learning Outcomes

Course attendance	1,5	Class participation		Seminar paper	Experiment	
Written exam		Oral exam	1	Essay	Research	
Project		Continuous Assessment	1,5	Presentation	Practical work	
Portfolio						

1.9. Assessment of Learning Outcomes and Examples of Evaluation during Classes and on the Final Exam

The procedure of assessment of learning outcomes is performed according to the University of Rijeka Regulations on the Studies and the Regulations on the Studies of the Faculty of Maritime Studies in the following way:

- 70 % of outcomes are assessed through continuous assessment in class. The 1st midterm exam assesses the outcomes 1, 3 and 5 (35 %), while the 2nd midterm exam assesses the outcomes 2 and 4 (35 %). The students need to gain at least 50 % of points on each midterm exam.
- The final exam assesses 30 % of learning outcomes (1-5), whereby the student must gain at least 50 % of points to pass.

Examples of outcome assessment in relation to the set outcomes are:

- 1. After reading the given text, explain the meaning of the expression 'last in-last out'. (O1)
- 2. Explain the difference in meaning between: wharf, pier, quay. (O2)
- 3. What is the Croatian equivalent to 'straddle carrier'. (O3)
- 4. Make a correct plural form of the nouns, comparison of adjectives and adverbs (O4).
- 5. Translate simple sentences from English into Croatian, using a dictionary. (O5)

1.10. Main Reading

- 1. Grussendorf, M. 2009. English for Logistics. Oxford: OUP.
- 2. Powell, D. et al. 2007. Grammar practice for upper intermediate students. Harlow: Pearson/Longman.
- 3. Skračić, T. 2016. Fairway. Coursebook for students of Maritime English. Split: Redak Ltd.
- 4. Teaching material available on the e-learning platform Merlin.

1.11. Recommended Reading

1.12. Number of Main Reading Examples

Title	Number of examples	Number of students
Grussendorf, M. 2009. <i>English for Logistcs</i> . Oxford: OUP.	5	45
Powell, D. et al. 2007. <i>Grammar practice for upper intermediate students.</i> Harlow: Pearson/Longman.	5	45
Skračić, T. 2016. Fairway. Coursebook for students of Maritime English. Split: Redak Ltd.	5	45
Teaching material available on the e-learning platform Merlin.	-	45

1.13. Quality Assurance

¹ **NOTE**: Name the proportion of ECTS credits for each activity so that the total number of ECTS credits is equal to the ECTS value of the course. Use empty fields for additional activities.

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The quality of the course is monitored in accordance with the ISO 9001 system implemented at the Faculty of Maritime Studies in Rijeka. Once a year, the results of the course are analyzed and a survey is conducted among the students once per semester.



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Table 2.

3.2. Course description

Generic information							
Head of Course	Ines Kolanović, Full Professor	Ines Kolanović, Full Professor					
Course	Port and Terminal Technology						
Study Programme	Technology and Organization of Transport						
Level	Undergraduate Level						
Type of Course	Mandatory						
Year of Study	2. Semester III.						
Estimated Student	ECTS coefficient of Student Workload 5						
Workload and Methods of Instruction	Number of Hours (L+E+S) 45 + 15+ 0						

Of Itisti decion		
1. GENERAL COURSE D	ESCRIPTION	
1.1. Course Objectiv	es	
_	•	e able to identify, to analyze and to explain the s, as well as traffic and technological processes at
1.2. Prerequisites for	r Course Registration	
-		
1.3. Expected Learni	ng Outcomes	
technological process 2. Systematically analyze systems 3. Recognize and distinguishe port services 4. To classify port warehous to explain the technological process.	e basic concepts: transport technology and interpret the elements and ruish the basic features of port-marit ouses according to different criteria	ogy, port and terminal technology, transport and relationship of the port, transport and economic time facilities in connection with the realization of and to clarify with a concrete example tics of the terminal on a concrete example for ort terminals
1.4. Course Outline		
process. Impact of tech infrastructure and supe warehouses. Special pu	nnological changes in shipping on erstructure. Port and terminal plan rpose ports. River ports. Types o gical processes at port terminals. Spe	
1.5. Modes of Instruction	+ Lectures Seminars and workshops + Exercises E-learning	+ Practical work Multimedia and Network Laboratory Mentorship



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TIJE							
		Field work		Other			
1.6. Comments							
1.7. Student Obligations							
Students are obliged to: attend at least 70% of classes, take part-time exams, make seminar work and pass							
the final exam. 1.8. Assessment of Learning Outcomes							
Course	eni oj Le	Turning Outcomes					T
attendance	2	Class participation		Seminar paper	0,5	Experiment	
Written exam	1	Oral exam		Essay		Research	
Project		Continuous Assessment	1,5	Presentation		Practical work	
Portfolio							
1.9. Assessme	ent of Le	earning Outcomes and Exan	nples c	of Evaluation du	ıring Classe	es and on the Final	Exam
 1.9. Assessment of Learning Outcomes and Examples of Evaluation during Classes and on the Final Exam The final grade is the sum of the points that student has achieved during the course (70% of the grade) and the points earned on the final exam (30% of the grade) according to the studies regulations at: the University of Rijeka and the Faculty of Maritime Studies in Rijeka. Continuous assessment: 2 mid-terms - a minimum of 50% of the estimated number of points is required; seminar paper (individual assignment) - a minimum of 50% of the estimated number of points is required; Final exam: The final exam checks the completeness of knowledge in the field of port and terminal technology - it is necessary to earn a minimum of 50% of points. Examples of Assessment of Learning Outcomes: Define terms: transport technology, port and terminal technology, transport and technological process (LO1) Show and comment relationship of the port, transport and economic system with the example of the Republic of Croatia (LO2) In the specific example, highlight the basic features of the port-maritime facilities (LO3) Group the port warehouses in accordance with the different criteria (LO4) Combine the technical and technological features of one type of terminal on the concrete example (LO5) Designing technological processes at the port terminal (LO6) 							
1.10. N	1ain Rec	ading					
 Dundović, Č.: Lučki terminali, sveučilišni udžbenik, Pomorski fakultet u Rijeci, Rijeka, 2002. Dundović, Č., Kesić, B.: Tehnologija i organizacija luka, sveučilišni udžbenik, Pomorski fakultet u Rijeci, Rijeka, 2001. 							
1.11. R	ecomm	ended Reading					
 Dundović, Č., Poletan-Jugović, T., Jugović, A., Hess, S.: Integracija i koordinacija lučkog i prometnog sustava Republike Hrvatske, Znanstvena monografija, Pomorski fakultet u Rijeci, Rijeka, 2006. Ivaković, Č.: Božičević, D., Smoljić, Lj., Đaković, N.: Osnove vodnog prometa, Sveučilište u Zagrebu, Fakultet prometnih znanosti, Zagreb, 1997. Agerschou, H., Lundgren, H., Sorensen, T., Ernst, T., Korsgaard, J.: Planning and Design of Ports and Marine Terminals, A. Wiley - Interscience Publication, New York, 1985. 							

Number of examples

Number of students

Number of Main Reading Examples

Title

1.12.



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Tehnologija I organizacija luka	9	50
Lučki terminali	13	50

1.13. Quality Assurance

The quality of study is continuously monitored in accordance with the requirements of ISO 9001 and in accordance with the European Standards and Guidelines for Quality Assurance conducted at the Faculty of Maritime Studies in Rijeka. At the end of the semester, student evaluations are conducted in accordance with the Study Quality Manual at the University of Rijeka.



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3.2. Course description

Generic information						
Head of Course	PhD Svjetlana Hess	PhD Svjetlana Hess				
Course	Quantitative Methods in Transport					
Study Programme	Technology and Organization of Transport					
Level	Undergraduate degree programme					
Type of Course	Mandatory	Mandatory				
Year of Study	2.					
Estimated Student	ECTS coefficient of Student Workload 6					
Workload and Methods of Instruction	Number of Hours (L+E+S) 45+30+0					

of	Instruction			13.30.0
1.	GENERAL COURSE DE	SCRIPTION		
	1.1. Course Objective	'S		
	transport technology, package). Also to be a	this course is to empower the student to ap by adopting techniques and obtaining solut ble to apply the acquired knowledge on rea yze the results for optimal and efficient dec	ions (tran	(manually and using a software sportation processes and
	1.2. Prerequisites for	Course Registration		
	-			
	1.3. Expected Learnir	ng Outcomes		
	 To define a spec To collect data a find the optimal To solve the real To choose the optimal and pos 	interpret fundamental theoretical principles ific problem in transport and to determine to the appropriation of a particular practical problem in I transport problem by applying the appropriation solution considering the criteria and I sible alternative solutions a software package.	he de te me trans iate r imita	ecision criterion ethod for solving the problem and sport method
	1.4. Course Outline			
	constraint problems (of Method, Vogel Method Emphasis is placed on applying quantitative	round of quantitative methods in transporta Graphical Method and Simplex Method). No od. Stepping Stone Method. Assignment pro- solving techniques (manually and using a so methods in optimization the specific practic timization of transport services is required.	rthwe olems oftwa	est Corner Method, Least Cost s in transport, Hungarian method. re package) and examples of
	1.5. Modes of Instruction	∠Lectures∠ Seminars and workshops∠ Exercises∠ E-learning∠ Field work		Practical work Multimedia and Network Laboratory Mentorship Other



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1.6. Comments

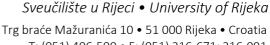
1.7. Student Obligations

Active class participation with at least 70% attendance. Creating work assignments during class. Passing tests for continuous monitoring ad assessment including the final exam.

1.8. Assessment¹ of Learning Outcomes

Course attendanc	2.5	Class participation	0.5	Seminar paper	Experiment	
Written exam	1	Oral exam		Essay	Research	
Project		Continuous Assessment	2	Presentation	Practical work	
Portfolio						

¹ **NOTE:** Name the proportion of ECTS credits for each activity so that the total number of ECTS credits is equal to the ECTS value of the course. Use empty fields for additional activities.





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1.9. Assessment of Learning Outcomes and Examples of Evaluation during Classes and on the Final Exam

Evaluation procedure:

70% of the grade through exams for students' continuous monitoring/assessment and 30% of the grade through final exam as follows:

- continuous assessment through 2 exams and 4 test assignments
- final exam (written): checking the understanding of total acquired knowledge in the field of quantitative methods and their application to specific transport or logistics problems.

Valuation examples:

- 1. write the theoretical background for one of the quantitative methods applicable to transport technology
- 2. define an arbitrary transport problem and determine the appropriate criterion
- 3. design a practical problem, describe how to collect the data, set up a model, and identify the appropriate method for solving the problem and finding the optimal solution
- 4. solve the transport problem using the appropriate quantitative method
- 5. interpret the solution, compare the results obtained and choose the optimal solution considering criteria and limitations set
- 6. solve a practical transport problem using a software package

1.10. Main Reading

- Brajdić, I., Matematički modeli i metode poslovnog odlučivanja, Fakultet za menadžment u turizmu i ugostiteljstvu, Opatija, 2013.
- Barković, D., Operacijska istraživanja, Ekonomski fakultet, Osijek, 2001.
- Zenzerović, Z., Operacijska istraživanja, Zbirka zadataka, Fakultet za pomorstvo i saobraćaj, Rijeka, 1983.

1.11. Recommended Reading

- Pašagić, H., Matematičke metode u prometu, Fakultet prometnih znanosti, Zagreb, 2003.
- Babić, Z., Linearno programiranje, Ekonomski fakultet u Splitu, Split, 2010.
- Lukač, Z., Neralić, L., Operacijska istraživanja, Element, Zagreb, 2012.
- Kalpić, D., Mornar, V., Operacijska istraživanja, Fakultet elektrotehnike i računarstva, Zagreb, 1996.

1.12. Number of Main Reading Examples

Title	Number of examples	Number of students
Barković, D., Operacijska istraživanja, Ekonomski fakultet, Osijek, 2001.	5	55
Brajdić, I., Matematički modeli i metode poslovnog odlučivanja, Fakultet za menadžment u turizmu i ugostiteljstvu, Opatija, 2013.	5	55

1.13. Quality Assurance

The studying quality is monitored following the ISO 9001 system, as well as European standards and guidelines for quality assurance, carried out at the Faculty of Maritime Studies, University of Rijeka. Analysis of exam passing is done once a year, and once a semester a survey is conducted among students.



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3.2. Course Description

Generic information						
Head of Course	lgor Vio, PhD					
Course	Maritime Administrative Law and Law o	of the Sea				
Study Programme	Technology and Organization of Transport					
Level	Undergraduate degree programme					
Type of Course	Core (compulsory course)					
Year of Study	2					
Estimated Student	ECTS Coefficient of Student Workload	4				
Workload and Methods of Instruction	Number of Hours (L+E+S) 45 + 0 + 0					

1. GENERAL COURSE DESCRIPTION

1.1. Course Objectives

Students should become familiar with international and national legal framework regulating the boundaries of national jurisdiction at sea, rights and duties of states at sea, their mutual relations related to exploration and exploitation of marine and submarine resources and their protection, their relations concerning war and neutrality in armed conflicts at sea, as well as safety of navigation and protection of the marine environment, organization of maritime administration, labour relations of seafarers, flag state and port state control, maintenance of order in ports and harbours, and regime of maritime domain.

1.2. Prerequisites for Course Registration

none

1.3. Expected Learning Outcomes

- 1. To list and compare the international conventions and other sources of the international law of the sea, to describe its basic principles and to explain their influence on the regimes of navigation of ships in various parts of the sea, as well as on the regime of the exploitation of the resources of the sea and the seabed.
- 2. To explain the regime of entry and navigation of various foreign ships (merchant, government, military, fishing or scientific) and foreign yachts and boats in internal waters, territorial sea and protected ecological and fishery zone of the Republic of Croatia.
- 3. To enumerate and interpret rules and regulations of international maritime law governing the safety of navigation and the protection of the marine environment.
- 4. To explain the structure and describe the activities of the International Maritime Organization (IMO) and the European Maritime Safety Agency (EMSA).
- 5. To list the laws and regulations of the Republic of Croatia in the area of maritime administrative law and explain their application to ships and other maritime vessels and crafts, maritime navigation, sea lanes, pilotage and order in ports.
- 6. To describe the organization of the maritime administration in the Republic of Croatia, explain the role and organization of harbour master's offices, to enumerate their functions, highlight the features of the certificate of registration and other ship documents and books, indicate the principles and procedures of inspection, explain the technical control and list other activities of the Croatian Register of Ships.
- 7. To explicate the legal regulation of the maritime domain and seaports in the Republic of Croatia, describe the concept of the maritime domain and highlight the features of its concession, interpret the notion and list the types of seaports, and to describe the structure of the port authority and indicate its activities.



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1.4. Course Outline

Part I: International Law of the Sea: definition and codification: UNCLOS I, II and III - Geneva Conventions (1958) and UN Convention on the Law of the Sea (1982); internal waters, ports, bays, historic bays and historic waters, archipelagic waters, regime of islands, territorial sea, contiguous zone, straits used for international navigation, canals, continental shelf, exclusive economic zone, maritime boundary delimitation, area, high seas, land-locked states, geographically disadvantaged states, enclosed and semienclosed seas, marine scientific research, marine pollution, marine and submarine areas of the Republic of Croatia, status of foreign ships in Croatian internal waters and territorial sea; International Law of Armed Conflicts at Sea: rights and duties of neutral and belligerent states, war zones at sea, status of neutral ships in convoy, status of military and merchant ships in armed conflicts, naval blockade, contraband of war. Part II: International Maritime Organization (IMO) – structure, goals and functions. International conventions on safety of navigation and protection of the marine environment: SOLAS, COLREG, LOADLINES, TONNAGE, INTERVENTION, LDC, MARPOL, OPRC, AFS and BWC. Principles of ISM and ISPS Code, Paris Memorandum of Understanding on Port State Control, problems of flags of convenience. European Maritime Safety Agency (EMSA) - structure and functions. Master and crew, STCW Convention, Maritime Labour Convention and other Conventions and Resolutions of the International Labour Organization (ILO). Croatian maritime legislation, Maritime Code, harbour master's offices and inspection of safety of navigation, categories of navigation, sea lanes, pilotage, ships - legal regime, ownership, nationality, registration, classification, name and call sign, ship registers, ship's documents, log book. Croatian Register of Ships, technical supervision of ships, jurisdiction - flag state, coastal state and port state jurisdiction. Maritime Domain and Seaports Act, concept of maritime domain, concessions, definitions and characteristics of ports and harbours, concessions for port activities, port fees.

, p, p									
			⊠Lectu	res		P	Practical work		
		Seminars and workshops				Multimedia and Network			
1.5. Modes (of Insti	ruction	Exerc	ises			aborat	ory	
			E-lea	rning			/lentors	ship	
			Field	work			ther _		
1.6. Comments									
1.7. Student	Obliga	ations							
 a) Students' main obligations are active course attendance with the preparation and presentation of seminar paper and they are required to pass two mid-term exams. b) As a prerequisite for the final exam, students must score at least 35 out of a possible 70 points (50%) during the classes. c) Students must score at least 15 out of a possible 30 points on final exams (50%). 									
1.8. Assessn	nent¹o	f Learning C	Dutcomes						
Course attendance 1,5 Class participation Seminar paper 0,5 Experiment									
Written exam	1,0	Oral exam	า		Essay			Research	
Project		Continuo Assessme		1,0	Presentation			Practical work	
Portfolio									

¹ **NOTE:** Name the proportion of ECTS credits for each activity so that the total number of ECTS credits is equal to the ECTS value of the course. Use empty fields for additional activities.



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1.9. Assessment of Learning Outcomes and Examples of Evaluation during Classes and on the Final Exam

The evaluation procedure consists of continuous examination of knowledge in the form of two tests and a final exam. Examples of evaluating learning outcomes during classes and on the final exam:

- 1. Compare the concept and legal regime of the contiguous zone according to the Convention on the Territorial Sea and Contiguous Zone (1958) and the UN Convention on the Law of the Sea (1982).
- 2. Indicate and explain conditions for entry and navigation of ships, yachts and boats of foreign nationality in internal waters of the Republic of Croatia, including their stay in seaports and shipyards.
- 3. List and discuss international acts regulating the protection of the marine environment from pollution.
- 4. Describe the structure of the International Maritime Organization (IMO) and highlight the role and functions of each body (Assembly, Council, Secretariat, Committees and Subcommittees).
- 5. Interpret the term and types of pilotage according to the provisions of the Maritime Code of the Republic of Croatia, specify and the rights and duties of the pilot, and explain potential responsibility and liability of the pilot and of the pilot company.
- 6. Describe the structure of the maritime administration in the Republic of Croatia, highlight the most important powers of harbour master's office, and in particular explain and describe the rules of procedure for maritime offenses.
- 7. Explain the legal concept of maritime domain and indicate which parts of land and sea have this status.

1.10. Main Reading

Luttenberger, Axel, Pomorsko upravno pravo, Pomorski fakultet, Rijeka, 2005. Luttenberger, Axel, Osnove međunarodnog prava mora, Pomorski fakultet, Rijeka, 2006. Luttenberger, Axel, Pomorsko ratno pravo, Pomorski fakultet, Rijeka, 2008.

1.11. Recommended Reading

Capar, Rudolf, Međunarodno pravo mora, Pomorski fakultet, Rijeka, 1994.

Capar, Rudolf, Međunarodno pomorsko ratno pravo, Školska knjiga, Zagreb, 1989.

Grabovac, Ivo, Pomorsko pravo, Knjiga I: Pomorsko javno i upravno pravo, VPŠ Split, 2001

Grabovac, Ivo – Petrinović, Ranka, Pomorsko javno, upravno i radno pravo, Pomorski fakultet, Split, 2006.

Ibler, Vladimir, Međunarodno pravo mora i Hrvatska, Barbat, Zagreb, 2001.

Rudolf, Davorin, Međunarodno pravo mora, JAZU, Zagreb, 1985.

Pomorski zakonik, N.N. 181/04. (s kasnijim izmjenama i dopunama)

Zakon o pomorskom dobru i morskim lukama, N.N. 158/03. (s kasnijim izmjenama i dopunama)

1.12. Number of Main Reading Examples

Title	Number of examples	Number of students
Osnove međunarodnog prava mora	Sufficient (in library and book shop)	75
Pomorsko ratno pravo	Sufficient (in library and book shop)	75
Pomorsko upravno pravo	Sufficient (in library and book shop)	75

1.13. Quality Assurance

Quality assurance of the course performance is continuously monitored according to ISO 9001 system applied at the University of Rijeka Faculty of Maritime Studies. An analysis of results of the final exams and a student survey are conducted and appropriate measures are adopted for each academic year.

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3.2. Course description

	Generic information			
Head of Course	Dr. sc. Neven Grubišić			
Course	Traffic Engineering and Mid	Traffic Engineering and Microsimulation		
Study Programme	Technology and Organization of Transport			
Level	Undergraduate degree programme			
Type of Course	Obligatory			
Year of Study	2.			
Estimated Student	ECTS coefficient of Student Workload		5	
Workload and Methods of Instruction	Number of Hours (L+E+S)			

GENERAL COURSE DESCRIPTION

1.1. Course Objectives

To gain knowledge of the methods and engineering techniques, analytic and microsimulation tools used by traffic engineers in solving operational traffic problems

1.2. Prerequisites for Course Registration

None

1.3. Expected Learning Outcomes

- 1. To explain main parameters of traffic stream and compare relationships between them
- 2. To calculate traffic capacity, v/c ratio and level of service
- 3. To identify and manage conflict traffic flows
- 4. To design the main elements of transport network, select values and attributes for objects for a given urban area with at least one intersection using the programming manual
- 5. To assign traffic flows by transport modes and vehicle categories for a given traffic volumes within transport network
- 6. To set-up signal controllers in simulated environment for the target intersection, depending on the traffic flow parameters
- 7. To test traffic behavior of observed network and compare the results in minimum three time periods and for minimum two traffic scenarios using micro-simulation

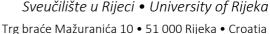
1.4. Course Outline

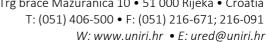
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Traffic stream parameters: traffic flow, speed, headway, spacing. Traffic behavior, vehicle dynamics, road geometry. Type and structure of traffic stream, uninterrupted and interrupted traffic stream. Relation between parameters. Applied statistic in traffic engineering. Volume and capacity, v/c ratio, level of service. Data collection, traffic counts and measurements. Management of traffic flow. Intersections and intersection traffic control. Signal controllers, signal programming and management. Definition and purpose of traffic microsimulations. Vissim simulator. Design of transport network. Modeling of turns and routes, traffic composition and vehicle class distribution. Private and public transport objects and attributes. Intersection control and management: conflict area, priority rules, safety gaps. Set-up and adjustment of signal controllers and signal phasing. Evaluation of results. Calibration and validation. Data collection and measurement objects. Simulation configuration, initiation and control. Practical work X Lectures Seminars and workshops Multimedia and Network 1.5. Modes of Exercises Laboratory Instruction E-learning Mentorship Other SW.SIMULATOR X Field work 1.6. Comments Lectures and assignments are performed in a specialized classroom 1.7. Student Obligations Students are required to attend classes regularly and actively participate in lab exercises. 1.8. Assessment¹ of Learning Outcomes Course 2,5 Class participation 0,5 Seminar paper Experiment attendance Written exam 0,5 Oral exam 0,5 Essay Research Project 1 Continuous Assessment Presentation Practical work Portfolio

¹ **NOTE:** Name the proportion of ECTS credits for each activity so that the total number of ECTS credits is equal to the ECTS value of the course. Use empty fields for additional activities.







1.9. Assessment of Learning Outcomes and Examples of Evaluation during Classes and on the Final Exam

Attending classes

Class attendance: Learning outcomes 1-7: 10 pts

Activity during assignments

Interactive participation in the design of the basic elements of roads,

intersections and traffic signs: Learning outcomes 1-4: 20 pts

Practical works on simulator

Results and their interpretations obtained for key traffic measurements: Learning outcomes 5-7: 40 pts

Maximum of 70 credits or 70% of total score during teaching process is available. Maximum of 30 credits or 30% of total score may be earned during final exam.

Examples of evaluation by individual learning outcome:

- 1. Calculate the speed and density of traffic flow for a given road section and given time intervals, compare and analyze results (I1)
- 2. In the given example, explain the dynamics of the relationship between the volume and capacity of the road with respect to time interval of measurements (I2)
- 3. Calculate the amount of conflict points based on vehicle movements at the intersection (I3)
- 4. Using a computer program, draw the main elements of traffic network (I4)
- 5. Based on intersection survey data, define the vehicle composition, assign traffic volumes to approach lanes and compose routes and movements for vehicles and pedestrians (I5)
- 6. Set-up signal groups and adjust signal cycle and signal phases for target intersection for a given volume of traffic, change distribution of flow and adjust signal time intervals (I6)
- 7. Create scenarios of traffic flow for a given section of roadway, allocate detectors and export results using a microsimulation tool (I7)

1.10. Main Reading

- 1. Dadić, I., Kos, G., Ševrović, M.: Teorija prometnog toka, Sveučilište u Zagrebu, Fakultet prometnih znanosti, Zagreb, 2014.
- 2. Šraml, M., Jovanović, G.: Mikrosimulacije u prometu (radni udžbenik s primjenom VISSIM-a), Univerza v Mariboru, Fakulteta za gradbeništvo, Maribor, 2014.

1.11. Recommended Reading

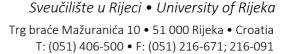
1. Roess, R., McShane, W., Prassas, E: Traffic Engineering, Prentice Hall, New Jersey, 1998.

1.12. Number of Main Reading Examples

Title	Number of examples	Number of students
Dadić, I., Kos, G., Ševrović, M.: Teorija prometnog toka, Sveučilište u Zagrebu, Fakultet prometnih znanosti, Zagreb, 2014	accessible online	40
Šraml, M., Jovanović, G.: Mikrosimulacije u prometu (radni udžbenik s primjenom VISSIM-a), Univerza v Mariboru, Fakulteta za gradbeništvo, Maribor, 2014.	accessible online	40

1.13. Quality Assurance

The quality is monitored in accordance with ISO 9001 standard carried out at the Faculty of Maritime Studies. The results of passed exams are analyzed once a year and proper measures taken.



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3.2. Course description

	Generic information				
Head of Course	Full professor Tanja Poletan Jugović, Ph. D. Associate professor Siniša Vilke, Ph. D.				
Course	Cargoes in transport				
Study Programme	Technology and Organization of Transport				
Type of Course	Compulsory				
Year of Study	2				
Estimated Student	ECTS coefficient of Student Workload 5				
Workload and Methods of Instruction	Number of Hours (L+E+S)				

1. GENERAL COURSE DESCRIPTION

1.1. Course Objectives

Defining relevant terms and manifestations of products, goods, and cargo in transport. Understanding the role and meaning of knowing the nature of materials and freight in traffic. Getting to know the nature of materials and cargo in traffic as essential prerequisites for the organization of transport and transport manipulations. Knowledge of basic and specific classifications, divisions and categorization of cargo. Analysis of basic cargo characteristics and ways of testing the quality of cargo properties. Defining the specificities and rules of transportation, transshipment, storage, packaging, and signaling of certain types of cargo (liquid cargo, bulk cargo, general cargo, dangerous cargo, oversized cargo ...) with respect to different modes of transport (road, rail, naval, air ...).

1.2. Prerequisites for Course Registration

-

1.3. Expected Learning Outcomes

After passing the exam, students will be able to do the following:

- 1. To distinguish between types of basic and specific division of cargo/goods in relation to different criteria.
- 2. To distinguish international trade classifications of goods in traffic.
- 3. To define and interpret the concept of freight/goods quality in transport.
- 4. Properly to define the basic characteristics and characteristics of freight/goods in transport.
- 5. To describe and interpret specific properties and characteristics of particular types of cargo (within a group of liquid, bulk, general, oversized loads).
- 6. To distinguish and explain ways of testing the properties of particular types of cargo/goods.
- 7. To distinguish and interpret the rules and specifics of transportation of particular types of cargo.
- 8. To explain and distinguish between the systems of marking goods for particular types of cargo.
- 9. To define and distinguish between basic and specific types of (transport) packaging (palletiation, containeriation, ...).
- **10.** To describe and compare the rules, requirements, and specifics of packaging, packaging, and signage of particular types of cargo.

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Course Outline

Relevant terms and manifestations of products, goods, and goods in transport; Meaning of knowledge of the nature of materials in transport, Concept of quality of goods in transport; Classification and penclature of goods in transport. Goods identification and marking systems: Packaging and packaging of

goods in transi bulk cargo; Otl	t; Basic r ner impo	material properties and tesportant dry cargoes in traffi dous Substances in Transpo	ting; ra c; Liqu	w and non-me	etallic ra	aw m	naterials; General c	argo;
1.5. Modes of Instructio		□ Lectures □ Seminars and worksh □ Exercises □ E-learning □ Field work	ops		☐ Mu	ıltim orat entor	al work edia and Network ory ship	
1.6. Comment	ts							
1.7. Student C	Obligatio	ns						
Seminar paper	. semina	r presentation, 1 st colloqui	um, 2 nd	colloquium, t	he final	exar	n.	
1.8. Assessme	nt¹ of Le	earning Outcomes						
Course attendance	1,5	Class participation		Seminar paper	-	1	Experiment	
Written exam	1	Oral exam		Essay			Research	
Project		Continuous Assessment	1,5	Presentation			Practical work	
Portfolio								

1.9. Assessment of Learning Outcomes and Examples of Evaluation during Classes and on the Final Exam

The procedure for evaluation of the acquired learning outcomes is carried out according to the Regulations on Studies of the University of Rijeka and the Regulations on Studies at the Faculty of Maritime Studies in Rijeka as follows:

- 70% of the acquired learning outcomes within the 1st colloquium (25%), the 2nd colloquium (25%) and through the presentation of a research assignment - seminars (20%) are evaluated through continuous assessment during the class; the student must achieve at least 50% of points in each colloquium, and the presentation of the research assignment is evaluated on the basis of elaborated evaluation criteria;
- at the final exam 30% of the obtained learning outcomes are evaluated whereby the student must pass at least 50% of the points for passing the final exam.

Examples of evaluating learning outcomes about set learning outcomes are:

- 1. To list and sort the basic types of cargo according to the criterion of aggregate condition, value, and quality of the cargo and other specific criteria for the division of cargo/goods in traffic.
- 2. To explain and highlight the importance of trade classification of goods in traffic.
- 3. To define and describe the basic definitions of the concept of freight/goods quality in transport.
- 4. To describe and explain the basic characteristics and characteristics of particular cargo/commodity
- 5. Specify and interpret specific characteristics of particular cargo types (wood, cotton, hazardous cargo, ...).

¹ NOTE: Name the proportion of ECTS credits for each activity so that the total number of ECTS credits is equal to the ECTS value of the course. Use empty fields for additional activities.



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- 6. State and explain the rules and specifics of the transport of dangerous goods.
- 7. Define the types and evaluate the importance of cargo (goods) signaling (logistical) in logistics and transport processes.
- 8. Sort and explain the characteristics of each type of transport packaging.
- 9. Highlight the most important rules and requirements for the packaging, packaging, and signage of liquid, bulk, general and haradous cargo types.

1.10. Main Reading

- Hrvoje Baričević, Tanja Poletan Jugović, Siniša Vilke, Tereti u prometu, Pomorski fakultet u Rijeci, Sveučilište u Rijeci, 2010.
- Course materials for e-course (T. Poletan Jugović) available at e-learning platform Merlin

1.11. Recommended Reading

- Džanić, H., Tehnologija materijala u prometu, Fakultet prometnih znanosti Zagreb, Sveučilište u Zagrebu, Zagreb, 1989.
- Musil, B., Pregrad, N., Turina, N., Žerjal, B., Poznavanje robe, Ekonomski fakultet Zagreb, Zagreb, 1997.
- Turina, N, i dr., Poznavanje robe, Zagreb, 1997.
- Štrumberger, N., Rukovanje materijalima u prometu, Fakultet prometnih znanosti, Sveučilište u Zagrebu, Zagreb, 2000.

1.12. Number of Main Reading Examples

Title	Number of examples	Number of students
H. Baričević, T. Poletan Jugović, S. Vilke, Tereti u prometu , Pomorski fakultet u Rijeci, Sveučilište u Rijeci, 2010.	5	74
Course materials for e-course (T. Poletan Jugović) available at e-learning platform – Merlin	-	74

1.13. Quality Assurance

The quality of study is constantly monitored in accordance with the ISO 9001 standard implemented at the Faculty of Maritime Studies in Rijeka. An analysis of the exams is made annually, and a student survey is conducted once a semester.



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3.2. Course description

	Generic information				
Head of Course	Maja Redžić, mag.cin.				
Course	Physical education 3				
Study Programme	Technology and Organization of Transport				
Level	UNDERGRADUATE DEGREE PROGRAMME				
Type of Course	core				
Year of Study	2 nd				
Estimated Student	ECTS coefficient of Student Workload	1			
Workload and Methods of Instruction	Number of Hours (L+E+S)	0+30+0 (0+2+0)			

GENERAL COURSE DESCRIPTION

1.1. Course Objectives

The goals of physical and health culture are:

- acquaintance with the principles of biopsychosocial characteristics of man
- acquiring knowledge about the factors that cause illnesses and injuries
- adopting a certain fund of motor information necessary for a more meaningful use of leisure time
- meeting the biopsychosocial human need for movement
- building humane interpersonal relationships
- increase of creative ability and adaptation to contemporary living and working conditions
- by training appropriate programs to train a person for independent and responsible care for the preservation and promotion of personal health, work and other abilities

1.2. Prerequisites for Course Registration

Prerequisite for enrollment is a passed Physical and Health Education course 2

1.3. Expected Learning Outcomes

- 1. Application of acquired knowledge in everyday life
- 2. Creating humane interpersonal relationships that depend on the health of the individual and society as a whole
- 3. Improve knowledge of the factors that cause the injury and illness of gifted individuals.
- 4. To choose the possibility of solving motor tasks in urgent situations

1.4. Course Outline

The importance and application of warm-up, stretching and relaxation exercises in daily physical activities. Testing and testing motor skills and functional abilities. Developing a kinesthetic feel for the ball. Low aerobic. Absorbent on hands, on feet. Development of general motor skills (Static, explosive and repetitive power). Laying the ball out of motion. Deflection of the ball top, middle and high in volleyball (O). Three-way game (O). Refereeing rules: double ball running, steps, personal foul (K). Personal defense tactics and assault against personal defense (K). Stretching. Development of an individual's creative abilities in sports expression in an individual sport discipline with recreational influence. Yoga in function of health prevention.

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1.5. Modes o		☐ Lectures ☐ Seminars and workshop X☐ Exercises ☐ E-learning ☐ Field work	oS	Practic	al work ledia and Network tory		
1.6. Comr	nents						
1.7. Student	Obligatio	ons					
Active class	attenda	nce and activity in at least 70% o	of classes.				
1.8. Assessm	ent¹ of L	earning Outcomes					
Course attendance	1	Class participation	Seminar paper		Experiment		
Written exam		Oral exam	Essay		Research		
Project		Continuous Assessment	Presentation		Practical work		
College is r The motor i monitors ea	ot grade movemer ch (non) Records.	nt is positively evaluated during the arrival and activity of the studen The College of Physical and Hea	he course of the stude t on a separate whole	ent. Each te	aching hour accurat Physical and Healt	ely h	
1.10. Main Re		Do realise es					
1.11. Recomn	nenaea i	Reaaing					
2. Anderson biciklizam, skijanje, ko	B.: Stret šarka, n	ka tjelesne i zdravstvene kultu ching, Vježbe istezanja za sval ogomet i ostale sportove, Go e E., Pearl B.: Fitnes za sve, Go	kodnevni fitness: trò pal, d.o.o., Zagreb, 1	čanje, pliva 1997.			

Kosinac, Z.: Kineziterapija, tjelesno vježbanje i sport kod djece i omladine oštećena zdravlja,

Šnajder V., D. Milanović : Atletika, hodanja , trčanja, Fakultet za fizičku kulturu Sveučilišta u

Split, 1989.

Zagrebu, Zagreb, 1991.

¹ **NOTE:** Name the proportion of ECTS credits for each activity so that the total number of ECTS credits is equal to the ECTS value of the course. Use empty fields for additional activities.



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1.12. Nui	mber of Main Reading (Examples)		
	Title	Number of examples	Number of students
1.13.	Quality Assurance		

The quality of study is monitored in accordance with the ISO 9001 system and in accordance with European standards and guidelines for quality assurance carried out at the Faculty of Maritime Studies in Rijeka. Once a year, the results of the transience are analyzed and appropriate measures are adopted.



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3.2. Course description

	Generic information			
Head of Course	Dr. sc. Alen Jugović, full pro	ofessor		
Course	Port economics	Port economics		
Study Programme	Technology and Organizati	Technology and Organization of Transport		
Level	Undergraduate			
Type of Course	Core	Core		
Year of Study	2 nd			
Estimated Student	ECTS coefficient of Student Workload 5			
Workload and Methods of Instruction	Number of Hours (L+E+S)			

1. GENERAL COURSE DESCRIPTION

1.1. Course Objectives

Acquiring the necessary knowledge in the field of organization and management of seaports, paying particular attention to introducing students to:

- specificity of port management of national and county significance in the Republic of Croatia,
- models of management of seaports in the world,
- determining gravity zones,
- port functions,
- designing the organization,
- economic indicators and other factors that depend on the performance of each port.

1.2. Prerequisites for Course Registration

None

1.3. Expected Learning Outcomes

After passing the exam, students will be able to do the following:

- 1. Explain the basic concepts of ports and port system
- 2. Explain port features as creators of multiplier effects
- 3. List the types of seaports
- 4. Analyze port development trends
- 5. Understand the importance and impact of particular phenomena (globalization, informatization etc.) on the development and competitiveness of ports
- 6. Analyze and apply basic economic settings to individual cases from port practice (calculation of travel costs, fares, etc.).



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1.4. Course Outline

THE ROLE AND IMPORTANCE OF PORTS. Port definition, division of ports and port terminology.

HISTORICAL DEVELOPMENT OF PORTS. The development of ports from ancient times to the present.

INTERNATIONAL MARITIME TRAFFIC AND PORTS. Development of international maritime freight transport. Port development as a consequence of the incensement in maritime freight traffic.

FACTORS RELEVANT FOR THE DEVELOPMENT OF PORTS. Natural benefits of the ports. Technical benefits of the ports. Labor organization in the ports. Customs regime. Tariffs and tariff policy. Economic strength of the port hinterland. The role of the state in port development and port policy measures. Political relations.

GRAVITATION ZONES IN PORTS. The concept and significance of the gravitations zones in ports. Factors relevant for determining the size of the gravitational region. Methods for determining the size of the gravitational region.

PORT FUNCTIONS. Port traffic, trade and industrial function.

PARTICIPANTS IN THE PORT BUSINESS. Administration bodies and business entities.

ORGANIZATION OF PORT SYSTEM COMPONENTS. Zoning and specialization.

PORT AND PORT BUSINESS POLICY. Forms of management in ports.

PORT SYSTEM DEVELOPMENT PLANNING. Port development planning methodology. Port traffic forecast. Financial and economic evaluation of the plan. Types of development plans. Long-term, mid-term and short-term plans.

BASIC ORGANIZATION OF PORT BUSINESS. The concept and types of freight in ports. Traffic and technological process in the ports. Documents in the port business. Daily operational planning. Improvement of the traffic-technological process and business system in the ports. Port jamming.

ECONOMIC INDICATORS OF BUSINESS PERFORMANCE. Determining the value of the port service. Port fees and tariffs, port revenues. Costs in the port business. Labor productivity. Business efficiency. Business profitability.

	Practical work
Seminars and workshops	Multimedia and Network
	Laboratory
E-learning	
Field work	Other
ons	
sessment) and tests	
	Seminars and workshops Exercises E-learning Field work



1.8. Assessment ¹ of Learning Outcomes							
Course attendance 0,5 Class participation 0,5 Seminar paper Experiment							
Written exam	2	Oral exam		Essay		Research	
Project		Continuous Assessment	2	Presentation		Practical work	
Portfolio							

1.9. Assessment of Learning Outcomes and Examples of Evaluation during Classes and on the Final Exam

Assessment is carried out by conducting two exams (continuous assessment), two tests during the classes and the final exam.

- 1. Define the term port.
- 2. List the regional participants that the port business can have influence on.
- 3. List how ports are divided by purpose.
- 4. Explain how changes in technology affect seaport business.
- 5. Explain how globalization affects port competitiveness.
- 6. List what the port taxes consist of.

1.10. Main Reading

- 1. Jugović; A.: Upravljanje morskom lukom, Pomorski fakultet Sveučilišta u Rijeci, Rijeka, 2013.
- 2. Kesić, B.: Ekonomika luka, Pomorski fakultet, Rijeka 2003.

1.11. Recommended Reading

- 1. Jugović; A.: Upravljanje morskom lukom, Pomorski fakultet Sveučilišta u Rijeci, Rijeka, 2013.
- 2. Kesić, B.: Ekonomika luka, Pomorski fakultet, Rijeka 2003.
- 3. Theo Notteboom, Athanasios Pallis and Jean-Paul Rodrigue (2020) Port Economics, Management and Policy, New York: Routledge, 2020.

1.12. Number of Main Reading Examples			
Title		Number of examples	Number of students
Jugović; A.: Upravljanje morskom lukom, Pomor Sveučilišta u Rijeci, Rijeka, 2013.	30	40	
Kesić, B.: Ekonomika luka, Pomorski fakultet, Rijo (dio)	20	40	
Wayne, K.Talley: Port economics, Routledge – Ta Francis Group, London and New York, 2009.	aylor and	3	40

1.13. Quality Assurance

The quality of study is monitored in accordance with the ISO 9001 system and in accordance with European standards and guidelines for quality assurance implemented at the Faculty of Maritime Studies in Rijeka.

¹ NOTE: Name the proportion of ECTS credits for each activity so that the total number of ECTS credits is equal to the ECTS value of the course. Use empty fields for additional activities.



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3.2. Course description

Generic information			
Head of Course	Mirjana Borucinsky, PhD		
Course	English Language 4		
Study Programme	Technology and Organization of Transport		
Level	Undergraduate degree programme		
Type of Course	Core		
Year of Study	2		
Estimated Student	ECTS coefficient of Student Workload		4
Workload and Methods of Instruction	Number of Hours(L+E+S)		15+30+0

of Instruction				
1.GENERAL COURSE DESCRIPTION				
1.1. Course Objectives	r.			
using the basic terminolo	o develop the students' ability for wongy related to freight forwarding, or interpreting commercial terms (IN	basic characteristics of shipping		
1.2. Prerequisites for C	Course Registration			
Successful completion	of English Language 3.			
1.3. Expected Learning	g Outcomes			
 Show the four bat (independent user) Demonstrate languary transport in English Fill in forms and dotal and transport and transport	ocuments (bill of lading, charter part slate international regulations for int use complex lexical and syntactic fo	ding, writing, listening and spear an Framework of Reference for La orming professional work in marit ty, notice of readiness, etc.) correct terpreting commercial terms (INC	nguages (CEF). ime business and ctly in English. OTERMS). expression in	
1.4. Course Outline				
and subordinate sentence following extra-linguistic t	and relevant elements of grammar (es, word formation) in selected ptopics: international freight forwar etc.), regulations for interpreting co Lectures Seminars and workshops Exercises E-learning Field work	professional written and spoken rding, shipping documents (bill o	texts about the of lading, charter	

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1.6. Comments

1.7. Student Obligations

1st midterm exam, 2nd midterm exam, final exam

1.8. Assessment¹ of Learning Outcomes

Course attendance	1,5	Class participation		Seminar paper	Experiment	
Written exam		Oral exam	1	Essay	Research	
Project		Continuous Assessment	1,5	Presentation	Practical work	
Portfolio						_

1.9. Assessment of Learning Outcomes and Examples of Evaluation during Classes and on the Final Exam

The procedure of assessment of learning outcomes is performed according to the University of Rijeka Regulations on the Studies and the Regulations on the Studies of the Faculty of Maritime Studies in the following way:

- 70 % of outcomes are assessed through continuous assessment in class. The 1st midterm exam assesses the outcomes 1, 2 and 4 (35 %), while the 2nd midterm exam assesses the outcomes 3, 5 and 6 (35 %). The students need to gain at least 50 % of points on each midterm exam.
- The final exam assesses 30 % of learning outcomes (1-6), whereby the student must gain at least 50 % of points to pass.

Examples of outcome assessment in relation to the set outcomes are:

- 1. After reading the given text, describe and explain the procedure of notice, arrival and acceptance of a foreign ship in port. (O1)
- 2. Explain the meaning of the term 'charterer' and name the Croatian equivalents. (O2)
- 3. Fill in the appropriate terms in the forms and documents (bill of lading, charter party, notice of readiness, etc.) in English. (O3)
- 4. Match the international commercial term with its definition (i.e. FOB free on board). (O4)
- 5. Transform statements into questions. (O5)
- 6. Translate a professional text from Croatian into English, using a dictionary. (O5)

1.10. Main Reading

- 1. Allison, J., Towend, J. 2017. *In Company*. 3.0. Logistics. MacMillan Publishers Limited.
- 2. Evans, V., Dooley, J., Buchannan, D. 2013. Logistics. Express Publishing.
- 3. Grussendorf, M. 2009. English for Logistcs. Oxford: OUP.
- 4. Powell, D. et al. 2007. Grammar practice for upper intermediate students. Harlow: Pearson/Longman.
- 5. Pritchard, B. 2001. English in shipping. Pomorski fakultet, Rijeka.
- 6. Teaching material available on the e-learning platform Merlin.

1.11. Recommended Reading

1.12. Number of Main Reading Examples

Title	Number of examples	Number of students
Allison, J., Towend, J. 2017. <i>In Company</i> . 3.0. Logistics. MacMillan Publishers Limited.	5	45
Evans, V., Dooley, J., Buchannan, D. 2013. <i>Logistics</i> . Express Publish	5	45
Grussendorf, M. 2009. <i>English for Logistcs</i> . Oxford: OUP	5	45
Powell, D. et al. 2007. Grammar practice for upper intermediate	5	45

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students: Harlow: Pearson/Longman.		
Pritchard, B. 2001. <i>English in shipping</i> . Pomorski fakultet, Rijeka	5	45
Teaching material available on the e-learning platform Merlin.	-	45

1.13. Quality Assurance

The quality of the course is monitored in accordance with the ISO 9001 system implemented at the Faculty of Maritime Studies in Rijeka. Once a year, the results of the course are analyzed and a survey is conducted among the students once per semester.



1. GENERAL COURSE DESCRIPTION

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3.2. Course description

Generic information			
Head of Course	PhD Svjetlana Hess		
Course	Transport Demand Planning		
Study Programme	Technology and Organization of Transport		
Level	Undergraduate		
Type of Course	Mandatory		
Year of Study	2.		
Estimated Student	ECTS coefficient of Student Workload		5
Workload and Methods of Instruction	Number of Hours (L+E+S) 30+3		30+15+0

1.1. Course Objectives				
To empower the student in applying methods for determining the existing and future demand in transport.				
1.2. Prerequisites for	Course Registration			
-				
1.3. Expected Learnin	g Outcomes			
 Define the term Explain and exan Distinguish betw Compare and co Choose and appl Evaluate current 	y a method or combination of metho	d port demand ecasting methods as of forecasting methods in a particular problem ods to determine the transport demand sport demand (using computer support)		
1.4. Course Outline				
Defining the concept of transport supply and demand. Transport demand influencing factors. Role of model in forecasting transport demand. Applying qualitative and quantitative methods for forecasting transport demand. Demand estimation using regression analysis: model set up, data collection, determination of demand function form, testing the regression results. Usage of the appropriate software package.				
1.5. Modes of Instruction	∠Lectures∠ Seminars and workshops∠ Exercises∠ E-learning∠ Field work	Practical work Multimedia and Network Laboratory Mentorship Other		
1.6. Comments				
1.7. Student Obligations				

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Active class participation with at least 70% attendance. Creating work assignments during class. Passing tests for continuous monitoring ad assessment including the final exam.

1.8. Assessment¹ of Learning Outcomes

Course attendance	1.5	Class participation		Seminar paper	Experiment	
Written exam	1	Oral exam		Essay	Research	
Project		Continuous Assessment	2.5	Presentation	Practical work	
Portfolio						

¹ **NOTE:** Name the proportion of ECTS credits for each activity so that the total number of ECTS credits is equal to the ECTS value of the course. Use empty fields for additional activities.



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1.9. Assessment of Learning Outcomes and Examples of Evaluation during Classes and on the Final Exam

Evaluation procedure:

70% of the grade through exams for students' continuous monitoring/assessment and 30% of the grade through final exam as follows:

- continuous assessment through 2 exams and 2 test assignments
- final exam (written): checking the understanding of total acquired knowledge in the field of transportation demand forecasting methods and their application to specific transport or logistic problem.

Examples for evaluation of learning outcomes:

- 1. define the term of transport supply and demand
- 2. sort and list the factors that affect the transport demand
- 3. list the basic features of qualitative and quantitative forecasting methods
- 4. explain where a transport forecasting method is applied in practice
- 5. design a practical case, describe the data collection method, set up the model and determine the appropriate solving method
- 6. based on the solution obtained, forecast the future transport demand for a certain period
- 7. justify the implementation of a forecasting method in practice

1.10. Main Reading

- Hess, S., Planiranje prometne potražnje, Sveučilište u Rijeci, Pomorski fakultet u Rijeci, Rijeka, 2010.
- Salvatore, D., Ekonomija za menadžere, McGraw-Hill Inc., MATE, Zagreb, 1994.
- Šošić, I., Serdar, V., Uvod u statistiku, Školska knjiga, Zagreb, 1997.

1.11. Recommended Reading

- Kmenta, J., Počela ekonometrije, MATE d.o.o., Zagreb, 1997.
- Jones, H., Twiss, B.C., Forecasting Technology for Planning Decisions, The Macmillan Press Ltd., 1980.
- Hanke, J.E., Reitsch, A. G., Understanding Business Statistics, Irwin, Boston, 1991.
- Statistical sources with current statistics on transportation, trade, goods flow, port traffic, etc. available on the following websites: https://www.wto.org; https://unctad.org; https://info.isl.org.; https://ec.europa.eu/eurostat/; https://www.dzs.hr. (...) and various transport companies' websites as well.

1.12. Number of Main Reading Examples

Title	Number of examples	Number of students
Hess, S., Planiranje prometne potražnje, Sveučilište u Rijeci, Pomorski fakultet u Rijeci, Rijeka, 2010.	5	55
Salvatore, D., Ekonomija za menadžere, McGraw-Hill Inc., MATE, Zagreb, 1994.	5	55
Šošić, I., Serdar, V., Uvod u statistiku, Školska knjiga, Zagreb, 1997.	5	55

1.13. Quality Assurance

The studying quality is monitored following the ISO 9001 system, as well as European standards and guidelines for quality assurance, carried out at the Faculty of Maritime Studies, University of Rijeka. Analysis of exam passing is done once a year, and once a semester a survey is conducted among students.



3.2. Course description

Generic information						
Head of Course	Dr. sc. Neven Grubišić	Dr. sc. Neven Grubišić				
Course	Route planning					
Study Programme	Technology and Organization of Transport					
Level	Undergraduate degree programme					
Type of Course	Obligatory					
Year of Study	2.					
Estimated Student	ECTS coefficient of Student Workload 5					
Workload and Methods of Instruction	Number of Hours (L+E+S) 30+30+0					

1. GENERAL COURSE DESCRIPTION

1.1. Course Objectives

To gain knowledge of the traffic route and trip planning, transport vehicles scheduling and cargo distribution within the virtual environment using computer simulation tools.

1.2. Prerequisites for Course Registration

None

1.3. Expected Learning Outcomes

- 1. To solve at least one transport network problem applying graph theory methods and appropriate algorithms.
- 2. To apply right method for calculation of traffic assignment, route choice and optimal number of resources in the given case.
- 3. To explain dependencies of key elements for determination of time-window allocation in container shipping.
- 4. To interlink minimum 2 typical tactical problems in vessel route planning with cargo characteristics and shipping category.
- 5. To determine acceptable vehicle scheduling in minimum 3 cases according to route plan using a computer software tool.
- 6. To organize cargo distribution lots according to dedicated timeframe and route plan using computer software tool.
- 7. To calculate trip performances for a minimum of 3 indicators using computer program and to explain the results.

1.4. Course Outline



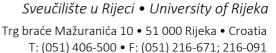
Portfolio

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Terms and definition of transport networks and problem area. Graph theory: implementation in transport network modeling. Capacity and network flows: law of stable traffic flow, flows with one input and output node, network cut, maximum flow, algorithms for maximum flow optimization. Minimum spanning tree methods and algorithms, the shortest path methods and algorithms. Shortest path in stochastic network. Route planning on transport network. Eulerian tour. Traveling salesman problem. Time-space vehicle scheduling plan, Multi terminal scheduling, Optimal tour planning. Public transport scheduling. Crew assignment. Shipping routing, and cargo allocation. Port inventory routing. Computer simulation: trip order, trip route initiation, cargo load management, route optimization, alternative route choice, dynamic trip tracking, destination matrix, time and cost management. X Lectures Practical work Seminars and workshops Multimedia and Network 1.5. Modes of Exercises Laboratory Instruction E-learning Mentorship \square Other SW.SIMULATOR_ Field work Lectures and assignments are performed in a specialized classroom 1.6. Comments 1.7. Student Obligations Students are required to attend classes regularly and actively participate in lab exercises. 1.8. Assessment¹ of Learning Outcomes Course 2 1 Class participation Seminar paper Experiment attendance Written exam 1 Research Oral exam Essay Practical work Project Continuous Assessment 1 Presentation

¹ **NOTE:** Name the proportion of ECTS credits for each activity so that the total number of ECTS credits is equal to the ECTS value of the course. Use empty fields for additional activities.





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1.9. Assessment of Learning Outcomes and Examples of Evaluation during Classes and on the Final Exam

Attending classes

Class attendance: Learning outcomes 1-7: 10 pts

Activity during assignments

Interactive participation in the design of route planning: Learning outcomes 1-4: 20 pts

Practical works with simulation tool

Results and their interpretations obtained for key traffic measurements: Learning outcomes 5-7: 40 pts

Maximum of 70 credits or 70% of total score during teaching process is available. Maximum of 30 credits or 30% of total score may be earned during final exam.

Examples of evaluation by individual learning outcome:

- 1. Calculate the shortest path from origin to destination using Dijkstra algorithm (I1)
- 2. Shipping line timetable is present, calculate minimum number of vessels (vehicles) for a given case (I2)
- 3. Allocate berths and cranes to ships depending on cargo-stowage plan and draw scheduling plan for cargo loading/unloading using heuristic methods (I3)
- 4. Explain impact of vessel rotation on port storage inventory and cargo distribution (I4)
- 5. Using computer simulation tool set-up routing plan and monitor cargo delivery process (I5)
- 6. Create scheduling plan, arriving and departure lists (I6)
- 7. Calculate bunker, labor and toll costs for a tour using computer simulation (I7)

1.10. Main Reading

- 1. Mehanović, M.: Mreže u saobraćaju i komunikacijama, Univerzitet u Sarajevu, Fakultet za saobraćaj i komunikacije, Sarajevo, 2015.
- 2. Bauk, S.I.: Kvantitativne metode optimizacije u funkciji naučnog menadžmenta, Ekonomska laboratorija za istraživanje tranzicije Podgorica, Podgorica, 2011

1.11. Recommended Reading

- 1. Pašagić, H.: Matematičke metode u prometu, Sveučilište u Zagrebu, Fakultet prometnih znanosti, Zagreb,
- 2. Toth, P., Vigo, D.: Vehicle Routing: Problems, Methods, and Applications, Siam, Philadelphia, 2014.
- 3. Zanjirani-Farahani, R.; Rezapour, S., Kardar, L.: Logistics Operations and Management, Elsevier, 2011.
- 4. Hillier, F., Liberman, G.: Introduction to Operations Research, McGraw-Hill, NewYork, 2005.

1.12. Number of Main Reading Examples

Title	Number of examples	Number of students
Mehanović, M.: <i>Mreže u saobraćaju i komunikacijama,</i> Univerzitet u Sarajevu, Fakultet za saobraćaj i komunikacije, Sarajevo, 2015.	5	40
Bauk, S.I.: Kvantitativne <i>metode optimizacije u funkciji</i> naučnog menadžmenta, Ekonomska laboratorija za istraživanje tranzicije Podgorica, Podgorica, 2011.	4	40

1.13. Quality Assurance

The quality is monitored in accordance with ISO 9001 standard carried out at the Faculty of Maritime Studies. The results of passed exams are analyzed once a year and proper measures taken.



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3.2. Course description

	Generic information				
Head of Course	Assist. prof. Livia Maglić, phD				
Course	Material handling equipment				
Study Programme	Technology and Organization of Transport				
Level	Bachelor				
Type of Course	Core				
Year of Study	2nd				
Estimated Student	ECTS coefficient of Student Workload 5				
Workload and Methods of Instruction	Number of Hours (L+E+S) 30+30+0				

1.	GENERAL COURSE DES	CRIPTION	
	1.1. Course Objectives		
		s to familiarize students with the m the type of cargo and handling techi	aterial handling equipment and their exploitation niques.
	1.2. Prerequisites for C	ourse Registration	
	None.		
	1.3. Expected Learning	Outcomes	
	 Explain the role and in Classify material hand Explain and determine equipment. Compare and give and the technological procession. Explain how to evaluate the role of the compare and explain how to evaluate the role of the role o	e the factors determining the exp example of the application of type as of transshipment. Ite, select and determine the require plain the importance of the safety a	
	1.4. Course Outline		
	The productivity of the load and working spe	material handling equipment. Det eeds of material handling equipi	ent. Types and basic features of transshipment. termination of the operating class, safe working ment. Cargo lifting gears for handling loads. ing equipment. Safety management of material
	1.5. Modes of Instruction	☑ Lectures☑ Seminars and workshops☑ Exercises☑ E-learning☑ Field work	Practical work Multimedia and Network Laboratory Mentorship Other
	1.6. Comments		



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1.7. Student Obligations

- 1. Two colloquiums
- 2. Design and present a project assignment
- 3. Final exam

1.8. Assessment¹ of Learning Outcomes

Course attendance	2,0	Class participation		Seminar paper	Experiment	
Written exam		Oral exam	1,0	Essay	Research	
Project	0,5	Continuous Assessment	1,5	Presentation	Practical work	
Portfolio						

1.9. Assessment of Learning Outcomes and Examples of Evaluation during Classes and on the Final Exam

The procedure for evaluating the acquired learning outcomes is carried out according to the Regulations on Studies of the University of Rijeka and the Rulebook on Studies at the Faculty of Maritime Studies in Rijeka as follows:

- 70% of the acquired learning outcomes are evaluated through continuous knowledge assessment during the teaching process: through the 1st colloquium learning outcomes 1-4 (25%), 2nd colloquium 5-8 (25%), project assignment learning outcomes 1-8 (20%);
- 30% of the acquired learning outcomes (1-8) are evaluated at the final part of the exam, with a minimum of 50% of available points necessary for passing the final exam.

Examples of evaluating learning outcomes respecting set learning outcomes are:

- 1. Define the term transport.
- 2. Specify the basic sizes in the material flow technology for the requirements of cargo transfer with continuous material handling equipment.
- 3. Explain and describe the basic criteria for the classification of material handling equipment.
- 4. Classify and explain the utilization coefficients of the safe working load capacity of the material handling equipment.
- 5. Explain the relation of routes as one of the indicators of valuation of the operation of material handling equipment.
- 6. Classify and describe the safety precautions when operating with a crane.
- 7. Calculate and explain theoretical and exploitative productivity on a given numerical example.
- 8. Calculate the relevant parameters for determining the operating class of a quay crane for the given example.

1.10. Main Reading

- Course presentations available on the e-learning system Merlin
- Dundović, Č., Prekrcajna sredstva prekidnog transporta, Pomorski fakultet u Rijeci, Rijeka, 2005.
- Mavrin, I., Transporteri, Fakultet prometnih znanosti, Zagreb, 1999.

1.11. Recommended Reading



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- Maglić, L. Optimizacija raspodjele kontejnera na slagalištu lučkoga kontejnerskog terminala, doctoral thesis 2015.
- Burič, A.M., Zbirka riješenih zadataka iz pretovarne mehanizacije, Univerzitet Crne Gore, Podgorica,
- Vladić, J., Transportna i pretovarna sredstva i uređaji: neprekidni i automatizovani transport, Fakultet tehničkih nauka, Novi Sad, 2005.
- Vladić, J., Mehanizacija i tehnologija pretovara: neprekidni transport i specifične mašine i uređaji, Fakultet tehničkih nauka, Novi Sad, 2005.
- Bukumirović, M., Zbirka riješenih zadataka iz elemenata transportnih sredstava i uređaja 2, Univerzitet u Beogradu, Saobraćajni fakultet, Beograd, 2003.
- Matić, A., Prekrcajna sredstva u pomorskom transportu 1, Veleučilište u Dubrovniku, Dubrovnik, 2000.

4.40		
1.12. Number of Main Reading Examples		
Title	Number of examples	Number of students
Dundović, Č., Prekrcajna sredstva prekidnog transporta, Pomorski fakultet u Rijeci, Rijeka, 2005.	6	70
Mavrin, I., Transporteri, Fakultet prometnih znanosti, Zagreb, 1999.	6	70
1.13. Quality Assurance		

The quality of study is continuously observed under the ISO 9001 system and following European standards and guidelines for quality assurance implemented at the Faculty of Maritime Studies, University of Rijeka. An analysis of the exams is given annually, and a survey among students is conducted by the semester.

NOTE: Name the proportion of ECTS credits for each activity so that the total number of ECTS credits is equal to the ECTS value of the course. Use empty fields for additional activities he course. Use empty fields for additional activities.



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3.2. Course description

Generic information					
Head of Course	Full professor Damir Zec, Ph.D Associate professor Siniša Vilke, Ph.D.				
Course	Transport safety				
Study Programme	Technology and organization of transport				
Type of Course	Obligatory	Obligatory			
Year of Study	2				
Estimated Student	ECTS coefficient of Student Workload		5		
Workload and Methods of Instruction	Number of Hours (L+E+S) 45 + 15				

GENERAL COURSE DESCRIPTION
1.1. Course Objectives
The purpose of the course is to acquire basic knowledge of the safety and health at work in the maritime, road, rail and air transport systems.
1.2. Prerequisites for Course Registration
1.3. Expected Learning Outcomes
 To discuss the regulations on international and national transport safety and safety at work To explain occupational safety requirements and describe safeguards in shipboard and port work To explain the principles and measures aiming to ensure safe port operations To classify dangerous goods and explain procedures for the dangerous goods transport To understand the principles of port safety To interpret the application of different forms of ITS applicable in land transport safety To interpret time intervals and intersection signal phases and to identify traffic conflict areas on intersection examples To identify, interpret and compare safety elements in structural design of roads and intersections
1.4. Course Outline
International regulations dealing with transport and occupational safety ystems. Legal foundations, principles, and implementation of occupational safety rules. Protection of workers on board and in port. Safeguards in port and shipboard work. Dangerous cargoes. Fire protection. Road safety. Railway safety. Application of the ITS in land transport security. Basic features of the air traffic safety systems. Improvement of safety, education, and prevention in all branches of transport.
X Lectures X Seminars and workshops Instruction X Seminars and workshops X Exercises X Laboratory B-learning Field work Other Other



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1.6. Comments

1.7. Student Obligations

The student must attend at least 70% of the total contact hours, develop and present a seminar paper, pass the preliminary exams (continuous assessment) to take the final exam.

1.8. Assessment¹ of Learning Outcomes

Course attendance	2	Class participation		Seminar paper	Experiment	
Written exam		Oral exam	1	Essay	Research	
Project	1	Continuous Assessment	1	Presentation	Practical work	
Portfolio						

¹ **NOTE:** Name the proportion of ECTS credits for each activity so that the total number of ECTS credits is equal to the ECTS value of the course. Use empty fields for additional activities.



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1.9. Assessment of Learning Outcomes and Examples of Evaluation during Classes and on the Final Exam

The procedure for evaluating the acquired learning outcomes is carried out by the Regulations on Studies of the University of Rijeka and the Regulations on Studies at the Faculty of Maritime Studies in Rijeka as follows:

- 70% of the acquired learning outcomes within the 1st semester (25%), the 2nd semester (25%) and through the presentation of a research assignment seminars (20%) are evaluated through continuous assessment during the class; the student must score at least 50% of points in each midterm, and the presentation of the research assignment is evaluated based on elaborated evaluation criteria;
- at the final part of the exam 30% of the obtained learning outcomes are evaluated whereby the student must pass at least 50% of the points for passing the final exam.

Examples of evaluating learning outcomes with set learning outcomes are:

- 1. Explain the basic legal requirements applicable to the transport safety systems
- 2. Describe the occupational safety and security requirements applicable to the shipboard and port work
- 3. Describe the port safe working procedure(s)
- 4. Describe dangerous goods transport framework and explain the main safety procedures
- 5. Describe the principles and application of port safety measures
- 6. Explain the different forms of ITS applications in road and rail safety systems
- 7. Determine time intervals and phases of signaling traffic devices and collisions of traffic flow
- 8. Describe the safety elements of a road construction project

1.10. Main Reading

- 1. Capar, R., Pravne osnove zaštite na radu, Fakultet za pomorstvo i saobraćaj, Rijeka, 1989.
- 2. Zec, D., Siguran rad u luci, Fakultet za pomorstvo i saobraćaj, Rijeka, 1991.
- 3. Matković, M., Protupožarna zaštita na brodovima, Fakultet za pomorstvo i saobraćaj, Rijeka, 2000.
- 4. Baričević, H., Tehnologija kopnenog prometa, Pomorski fakultet, Glosa, Rijeka, 2001.
- 5. Božičević, J., Topolnik, D., Infrastruktura cestovnog prometa, Zagreb, 1996.
- 6. Cerovac, V., Tehnika i sigurnost prometa, fakultet prometnih znanosti, Zagreb, 1997.

1.11. Recommended Reading

- 1. Međunarodna konvencija o sigurnosti ljudskih života na moru, 1974
- 2. Međunarodni kodeks o prijevozu opasnih tvari morem (IMDG)
- 3. Međunarodni kodeks za gradnju i opremanje brodova za prijevoz ukapljenih plinova (IGC),
- 4. Međunarodni kodeks za gradnju i opremanje brodova za prijevoz opasnih kemikalija u razlivenom stanju (IBC),
- 5. Zakon o prijevozu opasnih tvari Republike Hrvatske, Narodne novine«, br. 97/93., 34/95, 151/03
- 6. Accident prevention on board ship at sea and in port, ILO, 1969
- 7. Fundamental principles of occupational safety and health, ILO, 2001
- 8. Božičević, J. Ceste I. i II., Zagreb, 1993.
- 9. Happ, Z., Rotim, J., Mihoci, F., Sigurnosni aspekti hrvatskog cestovnog prometa, Suvremeni promet, god 16, broj
- 3-4, 1996.
- 10. Highway Manual Capacity, Highway Research Board, Washington DC, 1985. i 1994.
- 1.12. Number of Main Reading Examples



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Title	Number of examples	Number of students
Capar, R., Pravne osnove zaštite na radu, Fakultet za pomorstvo i saobraćaj, Rijeka, 1989.	4	45
Zec, D., Siguran rad u luci, Fakultet za pomorstvo i saobraćaj, Rijeka, 1991.	7	45
Matković, M., Protupožarna zaštita na brodovima, Fakultet za pomorstvo i saobraćaj, Rijeka, 2000.	5	45
Baričević, H., Tehnologija kopnenog prometa, Pomorski fakultet, Glosa, Rijeka, 2001.	13	45
Božičević, J., Topolnik, D., Infrastruktura cestovnog prometa, Zagreb, 1996.	6	45
Cerovac, V., Tehnika i sigurnost prometa, fakultet prometnih znanosti, Zagreb, 1997.	4	45

1.13. Quality Assurance

The quality of study is constantly monitored by the ISO 9001 system implemented at the Faculty of Maritime Studies in Rijeka. An analysis of the exams is made annually and a student survey is conducted once a semester.



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3.2. Course description

	Generic information					
Head of Course	Maja Redžić, mag.cin.	Maja Redžić, mag.cin.				
Course	Physical education 4					
Study Programme	Technology and Organization of Transport					
Level	UNDERGRADUATE DEGREE PROGRAMME					
Type of Course	core	core				
Year of Study	2 nd					
Estimated Student	ECTS coefficient of Student Workload	1				
Workload and Methods of Instruction	Number of Hours (L+E+S)	0+30+0 (0+2+0)				

GENERAL COURSE DESCRIPTION

1.1. Course Objectives

The goals of physical and health culture are:

- acquaintance with the principles of biopsychosocial characteristics of man
- acquiring knowledge about the factors that cause illnesses and injuries
- adopting a certain fund of motor information necessary for a more meaningful use of leisure time
- meeting the biopsychosocial human need for movement
- building humane interpersonal relationships
- increase of creative ability and adaptation to contemporary living and working conditions
- by training appropriate programs to train a person for independent and responsible care for the preservation and promotion of personal health, work and other abilities

1.2. Prerequisites for Course Registration

Prerequisite for enrollment is a passed Physical and Health Education course 3

1.3. Expected Learning Outcomes

After completing the course, students will be able to:

- 1. Better mental and physical health
- 2. Pursuing a physically active lifestyle
- 3. Promoting the value of an active and healthy lifestyle
- 4. Develop the ability to create by motor expression according to the characteristics of the gifted individuals.

1.4. Course Outline

Running technique (short sections), cycling at different tempo up to 6 minutes. Kinesitherapy exercises for spinal preservation. Personal Defense, Player Takeover (K). Skip the screw in place and move. Online game, forward elevator (O). Basic aerobics. Roll-step, bounce with a hammer, over one shoulder with a reel. Garbage - attack element, defense block element (O). One-on-two play (K). Two-and three-player counter-attack (K). Stretching, relaxing and relaxation exercises. Situational play (O). Measurement and evaluation of motor skills and functional abilities of an organism. Hi-low aerobics. Covering the ground when performing and expecting service (O).

Trg braće Mažuranića 10 • 51 000 Rijeka • Croatia T: (051) 406-500 • F: (051) 216-671; 216-091 W: www.uniri.hr • E: ured@uniri.hr Lectures Practical work Seminars and workshops Multimedia and Network 1.5. Modes of **X** Exercises Laboratory Instruction E-learning Mentorship Field work Other 1.6. Comments 1.7. Student Obligations Active class attendance and activity in at least 70% of classes. 1.8. Assessment¹ of Learning Outcomes Course 1 Class participation Seminar paper Experiment attendance Written exam Oral exam Essay Research Project Continuous Assessment Presentation Practical work Portfolio 1.9. Assessment of Learning Outcomes and Examples of Evaluation during Classes and on the Final Exam College is not graded. The motor movement is positively evaluated during the course of the student. Each teaching hour accurately monitors each (non) arrival and activity of the student on a separate whole semester's Physical and Health Education Records. The College of Physical and Health Education is evaluated for a particular semester by enrolling in the ISVU system "PASSED". 1.10. Main Reading 1.11. Recommended Reading Findak V.: Metodika tjelesne i zdravstvene kulture, Školska knjiga Zagreb, 1999. 2. Anderson B.: Stretching, Vježbe istezanja za svakodnevni fitness: trčanje, plivanje, tenis, Biciklizam, skijanje, košarka, nogomet i ostale sportove, Gopal, d.o.o., Zagreb, 1997.

Janković V., N. Marelić.: Odbojka, Fakultet za fizičku kulturu Sveučilišta u Zagrebu, Zagreb

Kosinac, Z.: Kineziterapija, tjelesno vježbanje i sport kod djece i omladine oštećena zdravlja,

Anderson B., Burke E., Pearl B.: Fitnes za sve, Gopal, d.o.o., Zagreb, 1997.

3.

1995.

Split, 1989.

¹ **NOTE:** Name the proportion of ECTS credits for each activity so that the total number of ECTS credits is equal to the ECTS value of the course. Use empty fields for additional activities.



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1.12. Nu	mber of Main Reading (Examples)		
	Title	Number of examples	Number of students
1.13.	Quality Assurance		

The quality of study is monitored in accordance with the ISO 9001 system and in accordance with European standards and guidelines for quality assurance carried out at the Faculty of Maritime Studies in Rijeka. Once a year, the results of the transience are analyzed and appropriate measures are adopted.



3.2. Course description

Generic information						
Head of Course	Dario Ogrizović, PhD	Dario Ogrizović, PhD				
Course	E-business	E-business				
Study Programme	Technology and Organization of Transport					
Level	Undergraduate degree programme					
Type of Course	Elective					
Year of Study	3rd	b				
Estimated Student	ECTS coefficient of Student Workload 4					
Workload and Methods of Instruction	Number of Hours (L+E+S)					

GENERAL COURSE DESCRIPTION

1.1. Course Objectives

E-business refers to the application of information technology and computer networks, mainly the Internet, in the process of buying and selling goods, services and information, but also applies to smart and social commerce, e-learning, e-services, e-government, social cooperation, shared economics, innovation, mobility, communication and information discovery using artificial intelligence, analytics and big data.

1.2. Prerequisites for Course Registration

None

1.3. Expected Learning Outcomes

- 1. Explain the theoretical basics of e-business related to system types, models, methods, mechanisms, management programs and benefits.
- 2. Describe the methods and models for selling goods, services and information using computer networks from business to individual customers.
- 3. List and distinguish between electronic and mobile commerce, their content and implementations.
- 4. Describe social networks and applications for social commerce and social enterprise systems, advertising, CRM and entertainment.
- 5. Describe connected smart commerce, internet of things and smart applications.
- 6. Describe consumer behaviour on the Internet, marketing and advertising in a web environment.
- 7. List security issues and their solutions in e-business.
- 8. Differentiate and systematize types of e-payments, mobile payments and digital currencies.
- 9. Indicate the ethical, legal, social and business environments in which e-business operates.

1.4. Course Outline



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Theoretical foundations of e-business

Methods and models for the sale of goods, services and information using computer networks

Content and implementations of electronic and mobile commerce

Social networks, applications for social commerce and social enterprise systems, advertising, CRM and entertainment

Connected smart commerce, internet of things and smart applications

Consumer behaviour on the Internet, marketing and advertising in a web environment

Security issues and their solutions in e-business

Types of e-payments, mobile payments and digital currencies in e-business

Ethical, legal, social and business environments

1.5. Modes oj Instructio		Lectures Seminars and worksh Exercises E-learning Field work	ops		Practic Multim Labora Mento Other	nedia and Network tory rship	
1.6. Commen	ts						
1.7. Student (Obligatio	ons					
		nd at least 70% of the total essment) to take the final ϵ		of lectures and	d exercises,	and must have pas	sed the
1.8. Assessme	ent¹ of L	earning Outcomes					
Course attendance	1,5	Class participation		Seminar paper		Experiment	
Written exam	1,0	Oral exam		Essay		Research	
Project	0,5	Continuous Assessment	1,0	Presentation		Practical work	
Portfolio							

¹ **NOTE:** Name the proportion of ECTS credits for each activity so that the total number of ECTS credits is equal to the ECTS value of the course. Use empty fields for additional activities.

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1.9. Assessment of Learning Outcomes and Examples of Evaluation during Classes and on the Final Exam

The process of evaluation of the acquired learning outcomes takes place during continuous assessments (through 2 midterm examinations - total 70%) and at the final part of the exam (30%).

Examples of evaluating learning outcomes in relation to the learning outcomes that are set are:

- 1. Explain the theoretical basics of e-business that relate to system types, models, methods, mechanisms, management programs and benefits.
- 2. Describe the methods and models for selling goods, services and information using computer networks.
- 3. List the electronic and mobile commerce, their content and implementations.
- 4. Describe social networks and applications for social commerce and social enterprise systems, advertising, CRM and entertainment.
- 5. Describe connected smart commerce, internet of things and smart applications.
- 6. Describe consumer behaviour on the Internet, marketing and advertising in a web environment.
- 7. List security issues and their e-commerce solutions.
- 8. Sort and organize e-commerce, mobile payments and digital currency e-business types.
- 9. List the ethical, legal, social and business environments in which e-business operates.

1.10. Main Reading

- 1. Turban, E., et al. Electronic commerce 2018: A managerial and social networks perspective. Springer, 2017
- 2. Schneider, G., P. Electronic Commerce, Gengage Learning, 2017.
- 3. Study materials available at e-learning platform (https://moodle.srce.hr)

1.11. Recommended Reading

Jelassi, T., et al. Strategies for E-business: Creating Value Through Electronic and Mobile Commerce: Concepts and Cases. 3rd ed. Harlow, England: FT Prentice Hall, 2014.

1.12. Number of Main Reading Examples

Title	Number of examples	Number of students
Turban, E., et al. Electronic commerce 2018: A managerial and social networks perspective. Springer, 2017.	10	40
Schneider, G., P. Electronic Commerce, Gengage Learning,	10	40
2017.	10	40
Jelassi, T., et al. Strategies for E-business: Creating Value		
Through Electronic and Mobile Commerce: Concepts and	10	40
Cases. 3rd ed. Harlow, England: FT Prentice Hall, 2014.		

1.13. Quality Assurance

The quality of study is constantly monitored in accordance with the ISO 9001 system implemented at the Faculty of Maritime Studies in Rijeka. An analysis of the exams is made annually and a student survey is conducted once a semester. All data, including exam, written work and assessment, are at all times public data for all students who have enrolled in the course (on the e-learning platform).

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3.2. Course description

	Generic information					
Head of Course	Dario Ogrizović, PhD	Dario Ogrizović, PhD				
Course	Cloud Computing					
Study Programme	Technology and Organization of Transport					
Level	Undergraduate degree programme					
Type of Course	Elective	Elective				
Year of Study	3rd					
Estimated Student	ECTS coefficient of Student Workload 4					
Workload and Methods of Instruction	Number of Hours (L+E+S)		30 + 15 + 0			

GENERAL COURSE DESCRIPTION

1.1. Course Objectives

Cloud computing brings a simpler and more flexible environment for the end user, theoretical basics and virtualization as the basis for the emergence of cloud computing are explained. Basic service models, implementations and major cloud computing service providers are presented.

1.2. Prerequisites for Course Registration

None

1.3. Expected Learning Outcomes

- 1. Explain the theoretical basics of cloud computing related to the foundations, etymology and properties of computing clouds
- 2. Present virtualization as the basis for the emergence of cloud computing and the type of virtualizations
- 3. List and distinguish between service models and cloud computing implementations
- 4. Describe and compare the major cloud computing service providers using historical view, global network of data centres and CDN hubs
- 5. Distinguish and systematize the types and purpose of available public and private cloud computing services

1.4. Course Outline

Theoretical basics of cloud computing

Foundations, etymology and properties of computing clouds

Virtualization

Cloud computing service models

Cloud computing implementation models

The major cloud computing service providers

Global network of data centres and CDN hubs

Type and purpose of available cloud computing services

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1.8. Assessment¹ of Learning Outcomes

Course attendance	1,5	Class participation		Seminar paper	Experiment	
Written exam	1,0	Oral exam		Essay	Research	
Project	0,5	Continuous Assessment	1,0	Presentation	Practical work	
Portfolio						

¹ **NOTE:** Name the proportion of ECTS credits for each activity so that the total number of ECTS credits is equal to the ECTS value of the course. Use empty fields for additional activities.

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1.9. Assessment of Learning Outcomes and Examples of Evaluation during Classes and on the Final Exam

The process of evaluation of the acquired learning outcomes takes place during continuous assessments (through 2 midterm examinations - total 70%) and at the final part of the exam (30%).

Examples of evaluating learning outcomes in relation to the learning outcomes that are set are:

- 1. Explain the foundations, etymology and properties of cloud computing
- 2. List and explain the types of virtualization as the basis for the emergence of cloud computing
- 3. List and sort cloud computing service models and cloud computing implementation models
- 4. Compare and describe the major cloud computing service providers
- 5. Classify and systematize the types and purpose of available public and private cloud computing services

1.10. Main Reading

- 1. Erl, T.: Cloud Computing: Concepts, Technology & Architecture, The Prentice Hall Service Technology Series, 2013.
- 2. Chopra, R.: Cloud Computing: An Introduction, Mercury Learning & Information, 2017.
- 3. Study materials available at e-learning platform (https://moodle.srce.hr)

1.11. Recommended Reading

- 1. Kavis, M.J.: Architecting the Cloud: Design Decisions for Cloud Computing Service Models (SaaS, PaaS, and IaaS), Wiley, 2014.
- 2. Rafaels, R.: Cloud Computing: From Beginning to End, CreateSpace Independent Publishing Platform, 2015.

Selected scientific papers from journals:

- 1. Journal of Cloud Computing, ISSN: 2192-113X
- 2. Future Generation Computer Systems, ISSN: 0167-739X

1.12. Number of Main Reading Examples

Title	Number of examples	Number of students
Erl, T.: Cloud Computing: Concepts, Technology & Architecture, The Prentice Hall Service Technology Series, 2013.	5	20
Chopra, R.: Cloud Computing: An Introduction, Mercury Learning & Information, 2017.	5	20
Kavis, M.J.: Architecting the Cloud: Design Decisions for Cloud Computing Service Models (SaaS, PaaS, and IaaS), Wiley, 2014.	5	20
Rafaels, R.: Cloud Computing: From Beginning to End, CreateSpace Independent Publishing Platform, 2015.	5	20

1.13. Quality Assurance

The quality of study is constantly monitored in accordance with the ISO 9001 system implemented at the Faculty of Maritime Studies in Rijeka. An analysis of the exams is made annually and a student survey is conducted once a semester. All data, including exam, written work and assessment, are at all times public data for all students who have enrolled in the course (on the e-learning platform).





3.2. Course description

Generic information						
Head of Course	Renato Ivče, PhD, Professor	Renato Ivče, PhD, Professor				
Course	Maritime transport technolog	Maritime transport technology				
Study Programme	Technology and Organization of Transport					
Level	University undergraduate stud	University undergraduate study program				
Type of Course	Optional	Optional				
Year of Study	3.					
Estimated Student	ECTS coefficient of Student Workload 3					
Workload and Methods of Instruction	Number of Hours (L+E+S)					

GENERAL COURSE DESCRIPTION

1.1. Course Objectives

The objective of the course is to acquaint students with the importance of ship maintenance system, methods of maintenance, direct and indirect costs of maintenance. Introduce students to corrosion processes, effects on ship's structure, need for corrosion protection and methods of corrosion protection. Especially, indicates to the importance of maintaining handling and deck equipment, and other parts of vessel which have significant impact on its safety.

1.2. Prerequisites for Course Registration

No prerequisites for course registration

1.3. Expected Learning Outcomes

- 1. Explain and apply international and national rules and codes relating to the handling and transport of cargo
- 2. Define the types of cargo significant in maritime transport and analyse the general requirements for sea transport
- Define and apply requirements when transporting various types of dry cargo by sea.
- 4. Define and apply requirements when transporting various types of liquid cargo by sea
- 5. Compare the transport and transhipment effectiveness of ships of various technologies

1.4. Course Outline

International regulations, regulations, recommendations and standards related to cargo handling. Cargo carrying capacity of the ship. Deadweight of the ship. Principles of cargo planning for ships of different technologies. General cargo maritime transportation technology. Container maritime transportation technology. Bulk cargo maritime transportation technology. Technology of maritime transportation of liquid cargo. Maritime transportation of wood. Technology of maritime transportation of refrigerated cargo.

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1.5. Modes of Instruction		Lectures X Seminars and workshops Exercises X E-learning Field work		X	-	•	J
1.6. Commen	ts			•			
1.7. Student (Obligatio	ons					
Active attendance of classes and at least 70% of completed classes for admission to the exam. Successful passing colloquiums and the final oral exam							
$1.8.$ Assessment 1 of Learning Outcomes							
Course attendance	1,5	Class participation		Seminar paper	0,3	Experiment	
Written exam		Oral exam		Essay		Research	
Project		Continuous Assessment	0,5	Presentation		Practical work	
Portfolio		Final exam	0,7				

¹ NOTE: Name the proportion of ECTS credits for each activity so that the total number of ECTS credits is equal to the ECTS value of the course. Use empty fields for additional activities.





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1.9. Assessment of Learning Outcomes and Examples of Evaluation during Classes and on the Final Exam

Assessment of Learning Outcomes and Examples of Evaluation during Classes and on the Final Exam is carried out in accordance with the Regulations on Studies of the University of Rijeka and the Regulations on Studies at the Faculty of Maritime Studies in Rijeka as follows:

through continuous assessment of knowledge during the classes, 70% of the acquired learning outcomes are evaluated through the 1st colloquium - learning outcomes 1-3 (25%), 2nd colloquium - learning outcomes 3-5 (25%), preparation expert problem-assignment - learning outcome 3 (20%); At the same time, the student must achieve a minimum of 52% of points in colloquium, 30% of the acquired learning outcomes (1-5) are evaluated at the final oral exam, and the student must achieve a minimum of 50% of points for passing the final exam.

Examples of evaluating learning outcomes in relation to set learning outcomes are:

- 1. Define and explain the application of the BLU code,
- 2. Define and explain the principle of basic division of dry cargo.
- 3. Formulate and apply requirements for the carriage of general cargo by sea,
- 4. Formulate and apply requirements for the transport of liquefied gases by sea,
- 5. Compare the transportation performance of container vessels and ro-ro vessels

1.10. Main Reading

- 1. Vranić D., Ivče R., Tereti u pomorskom prometu D.J.House, Cargo Work, Butterworth-Heinemann
- 2. Vranić, D., Kos, S., Morska kontejnerska transportna tehnologija
- 3. Komadina, P., Brodovi multimodalnog transportnog sustava
- 4. Komadina P. Tankeri

1 11 Recommended Readina

- 1. Vranić D., Ivče R., Tereti u pomorskom prometu
- 2. Biblioteka pomorskog časnika, sv. 1,
- 3. Biblioteka pomorskog časnika sv. 2,
- 4. Biblioteka pomorskog časnika sv. 3,
- 5. Biblioteka pomorskog časnika sv. 4.
- 6. Me**đ**unarodni pravilnici i kodeksi koji se odnose na rukovanje i prijevoz tereta morem

1.12. Number of Main Reading Examples

Title	Number of examples	Number of students
Cargo Work	unlimited	40
Morska kontejnerska transportna tehnologija	7	40
Prijevoz ukapljenih plinova morem	6	40

1.13. Quality Assurance

The quality of study is monitored in accordance with the ISO 9001 system and in accordance with the European standards and guidelines for quality assurance carried out at the Faculty of Maritime Studies in Rijeka. Once a year, exam passing results are analysed and appropriate measures are adopted



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Table 2

Course description

COURSE DESCRIPTION								
Course instructor		Axel Luttenber	Axel Luttenberger, Ph.D., Full Professor					
Name of the cours	e	Commercial an	Commercial and Transport Law					
Study programme		Undergraduate	Undergraduate study Technology and Organization of Transport					
Status of the cours	se .	mandatory						
Year of study		3 rd						
ECTS credits and m	nanner (5 ECTS	
instruction		Number of clas	s hours	(L+E+S)			45+0+0	
1. Course objective	es							
law evaluation for	acquirir some k	ng indispensable kno inds of contracts, wi	wledge	and compet	tence in	contra	f state and law, prop cting procedures, as actual and non-	-
2. Course enrolme	nt requi	rements						
None								
3. Expected learnin	ng outco	omes						
interpret a legal fra	amewoi		npany,	evaluate and	compa		of property rights, to ific contracts, and to	
4. Course content								
types of companie	s. Gene	rty rights (ownershi ral provisions of civi actual obligations ir	l law an	nd specific co	ntracts,	with sp	•	
x lectures individual assignments multimedia and network 5. Manner of instruction exercises laboratories mentorship fieldwork other			a and network es					
6. Comments								
7. Student responsibilities								
The students are obliged to attend the lectures and demonstrate the results of seminar paper.								
8. Monitoring of student work 1								
Class attendance	0,5	Class participation	0,5	Seminar pap	per		Experimental work	
Written exam		Oral exam		Essay			Research	

¹ IMPORTANT: Enter the appropriate proportion of ECTS credits for each activity so that the total number of credits equals the ECTS value of the course. Use empty fields for additional activities.



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Project	Continuous assessment	2,5	Report	Practical work	
Portfolio	Final exam	1,5			

9. Assessment of learning outcomes in class and at the final exam (procedure and examples)

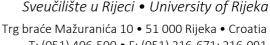
Assessment and evaluation of students in classes and at the final exam is conducted under the Rulebook on students' evaluation at the Faculty of Maritime Studies. For each course it is made a detailed course syllabus which coordinates activities, student load, learning outcomes and evaluation methods.

- 10. Mandatory literature (at the time of submission of study programme proposal)
- 1. Gorenc, Vilim, Pravo trgovačkih društva, Školska knjiga, Zagreb, Visoka poslovna škola, Zaprešić, 2010.
- 2. Slakoper, Zvonimir, Kačer, Hrvoje, Luttenberger, Axel, Mikrorad, Osnove prava trgovačkih ugovora i vrijednosnih papira, Zagreb, 2009.
 - 11. Optional/additional literature (at the time of submission of the study programme proposal)
- 1. Zakon o trgovačkim društvima, Narodne novine, 111/93., 34/99., 121/99., 52/00., 118/03., 107/07., 146/08., 137/09., 152/11., 111/12., 111/93., 34/99., 121/99., 52/00., 118/03., 107/07., 146/08., 137/09., 152/11., 111/12., 68/13., 110/15., 40/19.
- 2. Zakon o obveznim odnosima, Narodne novine, 35/05., 41/08.,125/11., 35/05., 41/08.,125/11., 78/15., 29/18.
 - 12. Number of assigned reading copies in relation to the number of students currently attending the course

Title	Number of copies	Number of students
Gorenc, Vilim, Pravo trgovačkih društva, Školska knjiga, Zagreb, Visoka poslovna škola, Zaprešić, 2010.	,	40
Slakoper, Zvonimir, Kačer, Hrvoje, Luttenberger, Axel, Mikrorad, Osnove prava trgovačkih ugovora i vrijednosnih papira, Zagreb, 2009.	10	40
power point presentation on Lumens		

13. Quality monitoring methods that ensure the acquisition of exit knowledge, skills and competences

The quality of the program, the teaching process, the teaching skills and the level of the material acceptance will be established by means of a written evaluation of the extensive questionnaires and in other ways envisaged by the accepted standards, in accordance with the Rulebook on Quality Assurance and Improvement of the University of Rijeka and the Quality Assurance and Improvement of the Faculty of Maritime Studies.





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3.2. Course description

Generic information				
Head of Course	Radoslav Radonja, Ph. D.,	Radoslav Radonja, Ph. D., assistant professor		
Course	Ecology in Transport	Ecology in Transport		
Study Programme	Technology and Organizatio	Technology and Organization of Transport		
Level	Undergraduate			
Type of Course	Elective			
Year of Study	3	3		
Estimated Student	ECTS coefficient of Student Workload		3	
Workload and Methods of Instruction	Number of Hours (L+E+S) 2+0+0		2+0+0	

GENERAL COURSE DESCRIPTION

1.1. Course Objectives

The main goal of the course is to acquire knowledge about the principles and laws of environmental protection, and understanding of theoretical, technical and legislative considerations of the relationship between organisms, biotopes and sources of pollution in traffic, and especially the part related to marine environment.

1.2. Prerequisites for Course Registration

-

1.3. Expected Learning Outcomes

After passing the exam, it is expected that students will be able to do the following:

- 1. Correctly interpret the basic concepts of ecology
- 2. Explain and interpret the harmful impact of pollutants in traffic on the biocenosis and the environment in a particular biotope
- 3. List and explain the protocols and annexes of the MARPOL 73/78 Convention
- 4. Explain the categories of pollutants according to the annexes and their harmful impact
- 5. State and explain the legislative requirements and documentation on board related to pollution prevention
- 6. Argue the requirements of the Ballast Water Convention and assess their impact on the environment
- 7. State and explain the harmful effects of underwater anti-fouling paints
- 8. Analyze and compare sources of sound pollution in traffic
- 9. List the requirements of the Convention on the Recycling of the Ships and explain prudent disposal procedures
- 10. Discuss possible scenarios related to sustainable development and climate change



Project

Portfolio

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Practical work

1.4. Course Outline

Basic concepts of ecology. Traffic pollutants and their harmful effects. Marine ecosystem factors and protection of the marine environment. Ship as a source of pollution. Marpol 73/78 (protocols and annexes). Ballast Water Convention. Convention against anti-fouling paints. Ship Recycling Convention. Sound and light pollution. Assumed possible scenarios related to sustainable development and climate change.							
1.5. Modes oj Instructio		X Lectures Seminars and workshops Exercises E-learning Field work		Seminars and workshops Exercises E-learning Multimedia and Networkshops Laboratory Mentorship		edia and Network cory rship	
1.6. Commen	ts			,			
1.7. Student (Obligatio	ons					
Active class attendance, 1st colloquium, 2nd colloquium and final oral exam.							
1.8. Assessment ¹ of Learning Outcomes							
Course attendance	1,0	Class participation	0,5	Seminar paper		Experiment	
Written exam		Oral exam	0,5	Essay		Research	

1,0

Presentation

Continuous Assessment



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1.9. Assessment of Learning Outcomes and Examples of Evaluation during Classes and on the Final Exam

The procedure for evaluating the acquired learning outcomes takes place in accordance with University's and Faculty's normative acts as follows:

- through continuous testing of knowledge during classes, 70% of the acquired learning outcomes are evaluated through the 1st colloquium learning outcomes 1-2 (20%), 2nd colloquium learning outcomes 3-6 (50%), while the student must realize a minimum of each colloquium 50% points;
- at the final part of the exam, 30% of the acquired learning outcomes are evaluated (1-10), whereby the student must realize a minimum of 50% of points in order to pass the final exam.

Examples of evaluating learning outcomes in relation to set learning outcomes are:

- 1. Explain what studies ecology as a science? What is the difference between abiotic and biotic factors? Why is water said to be the most important abiotic factor? ...
- 2. What is meant by the term "oil on board" and what does the spread and movement of the oil spill on the water depend on? List and explain the basic processes of oil decomposition? What are the harmful effects of pollutants from the exhaust gases of vehicles on the environment, and which on human health and why? ...
- 3. What does the Marpol 73/78 Convention consist of and what does Annex 1 (or 2 or 3 or... 6) deal with? To which ships does it apply / does it not apply? What are the exceptions? What are special and what are particularly sensitive marine areas? ...
- 4. According to Annex 2 of Marpol 73/78 of the Convention, where are unhealthy substances listed in bulk and how are they classified? According to Annex 3 of the Marpol 73/78 Convention, where are dangerous substances listed and how are they classified? ...
- 5. According to Annex 5 of the Marpol Convention, what documentation must a ship have? According to Annex 3 of Marpol 73/78 of the Convention, what are the conditions of packing and marking of cargo, requirements for accompanying documentation, packing and labeling, and how to handle empty packing? ...
- 6. What is the potential environmental hazard of ballast water coming from a tanker unloading / loading cargo at a tanker terminal and why? What is the difference between clean and separate ballast on an oil tanker? ...
- 7. What impact on the ship comes from the accumulation of fouling on the hull? What environmental hazards come from TBT underwater anti-fouling paints? ...
- 8. How does noise pollution from traffic affect the environment and people? What are the possible sources of noise and what is the difference between land and sea noise pollution? ...
- 9. Explain the term so-called. "Green passports" on board? Explain the difference in costs and the impact on people and the environment between ship recycling by stranding and recycling in a recycling shipyard? ...
- 10. What are the causes that can lead to the opening of the so-called. northern sailing routes and what are the possible consequences? How can a further increase in atmospheric temperature affect 'permafrost' and what are the possible consequences? Why is a ship considered the most environmentally friendly means of transport despite being heavily polluted? ...

1.10. Main Reading

- 1. Teacher lectures available in electronic form
- 2. Klepac, R.: Osnove ekologije, JUMENA, Zagreb 1990.
- 3. IMO, MARPOL 73/78., Consolidated Edition, London 2013.

1.11. Recommended Reading

- 1. https://www.pfri.hr/web/dokumenti/uploads_nastava/20180227_184357_zec_ZMMO_v.1.5_web.pdf
- 2. Golubić, J. Promet i okoliš, Fakultet prometnih znanosti u Zagrebu, Zagreb, 1999.
- 3. Dorčić, I.: Osnove čišćenja uljnih zagađenja, SKTH, Zagreb
- 4. Botkin, D., Keller, E., Environmental science, J. Wiley & sons, Inc., New York, 1995.

1.12. Number of Main Reading Examples

Title Number of examples Number of students

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Teacher lectures - available in electronic form	-	60
IMO, MARPOL 73/78., Consolidated Edition, London 2013.	1	60
Klepac, R.: Osnove ekologije, JUMENA, Zagreb 1990.	1	60
1.12	_	

1.13. Quality Assurance

Course quality review carried in accordance with ISO 9001 system and European standards and guidance for quality assurance carried through on Maritime faculty. Student Success is evaluated, and corrective measure implemented yearly.

¹ **NOTE:** Name the proportion of ECTS credits for each activity so that the total number of ECTS credits is equal to the ECTS value of the course. Use empty fields for additional activities.



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3.2. Course description

Generic information				
Head of Course	Sandra Tominac Coslovich,	Sandra Tominac Coslovich, PhD, Associate professor		
Course	English Language 5	English Language 5		
Study Programme	Technology and Organizati	Technology and Organization of Transport		
Level	Undergraduate degree pro	Undergraduate degree programme		
Type of Course	Elective			
Year of Study	3			
Estimated Student	ECTS coefficient of Student Workload		4	
Workload and Methods of Instruction	Number of Hours (L+E+S)		15+30+0	

1.GENERAL COURSE DESCR	IPTION					
1.1.Course Objectives	1.1.Course Objectives					
understand, interpret and ι	use terms related to agency busines	uistic knowledge in English to enable students to ss and legal regulations relevant for performing mmunication in maritime affairs and transport.				
1.2.Prerequisites for Co	urse Registration					
Successfully completing	English language 4					
1.3.Expected Learning (Dutcomes					
(independent user) a 2. Demonstrate languatransport in English. 3. Speak about and dis 4. Translate texts from 5. Present a topic from 1.4.Course Outline Professional vocabulary (tenter) from relevant fields of vocation	ic language skills in English: readinaccording to the Common Europeanage knowledge and skills for performacuss professional topics in English. the professional field from English in agency business in English. minology, compounds, collocations, on, relevant elements of grammar (systic elements) in selected profession	ng, writing, listening and speaking at B2 level Framework of Reference for Languages (CEF). In professional work in maritime business and into Croatian and vice versa. Devical sets), characteristics of the discourse/texts yntax of complex sentences, lexical characteristics al written and spoken texts about the following occidents, maritime business correspondence.				
1.5.Modes of Instruction	∠Lectures✓ Seminars and workshops∠ Exercises✓ E-learning✓ Field work	Practical work Multimedia and Network Laboratory Mentorship Other				
1.6.Comments						

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1.7.Student Obligations

1st midterm exam, 2nd midterm exam, presentation, final exam

1.8.Assessment¹ of Learning Outcomes

Course attendance	1,5	Class participation		Seminar paper		Experiment	
Written exam		Oral exam	1	Essay		Research	
Project		Continuous Assessment	1	Presentation	0,5	Practical work	
Portfolio							

¹ **NOTE:** Name the proportion of ECTS credits for each activity so that the total number of ECTS credits is equal to the ECTS value of the course. Use empty fields for additional activities.

1.9. Assessment of Learning Outcomes and Examples of Evaluation during Classes and on the Final Exam

The procedure of assessment of learning outcomes is performed according to the University of Rijeka Regulations on the Studies and the Regulations on the Studies of the Faculty of Maritime Studies in the following way:

70 % of outcomes are assessed through continuous assessment in class. The 1^{st} midterm exam assesses the outcomes 1, 2 (30 %), while the 2^{nd} midterm exam assesses the outcomes 3 and 4 (30 %). The outcome 5 is assessed though the presentation (10 %). The students need to gain at least 50 % of points on each midterm exam.

The final exam assesses 30 % of learning outcomes (1-5), whereby the student must gain at least 50 % of points to pass.

Examples of outcome assessment in relation to the set outcomes are:

- 1. Single out the collocations and other forms of multi-word units from the specialized text.
- 2. Following the given hints, compose an official enquiry by e-mail regarding the insurance cover.
- 3. State and explain the kinds of risks covered by P&I insurance.
- 4. Translate the part of institutional clauses about cargo insurance from English into Croatian using suitable terminology.
- 5. Present a topic from the field of agency business in English using appropriate terminology.

1.10. Main Reading

- 1. Ashley, A. 2003. Oxford Handbook of Commercial Correspondence. Oxford University Press.
- 2. B.J.Naterop, E.Weis, E.Haberfellner: Business Letters for All, OUP,1987
- 3. Pritchard, B. 2001. English in Shipping, selected units on Merlin (moodle.srce.hr)
- 4. Teaching materials available on the e-learning platform Merlin.

1.11. Recommended Reading

1. S.S.Weeney: English for Business Communication, CUP, second edition

1.12. Number of Main Reading Examples

Title	Number of examples	Number of students
Ashley, A. 2003. <i>Oxford Handbook of Commercial Correspondence</i> . Oxford Univeristy Press.	5	25
B.J.Naterop, E.Weis, E.Haberfellner: Business Letters for All, OUP,19	5	25
Pritchard, B. 2001. <i>English in Shipping</i> . https://www.pfri.uniri.hr/bopri/Shipping.html	5	25
Teaching materials available on the e-learning platform Merlin.	Available online	25





Quality Assurance

The quality of the course is monitored in accordance with the ISO 9001 system implemented at the Faculty of Maritime Studies in Rijeka. Once a year, the results of the course are analyzed and a survey is conducted among the students once per semester.



1. GENERAL COURSE DESCRIPTION

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3.2. Course description

Generic information				
Head of Course	Prof. Dr. Bojan Hlača			
Course	Port Logistics	Port Logistics		
Study Programme	Technology and Organization of Transport			
Level	Undergraduate degree pro	Undergraduate degree programme		
Type of Course	Elective			
Year of Study	3			
Estimated Student	ECTS coefficient of Student Workload		5	
Workload and Methods of Instruction	Number of Hours (L+E+S)		30 +15 +0	

1.1. Course Objectiv	1.1. Course Objectives				
The basic objective of the course is to acquaint students with terminals by type of cargo in logistics systems, cargo flows, and intermodal centers with the analysis of the evolution of ports in the supply chain.					
1.2. Prerequisites fo	r Course Registration				
No					
1.3. Expected Learn	ing Outcomes				
2. Explain and desc 3. Explain and desc 4. Analyze the evol 5. Describe ports a 6. Describe ports a 7. Explain how to n 8. Explain how to c 9. Analyze the sele		route			
1.4. Course Outline					
chain. Ports and terr		Ports. The evolution of ports into the supply port efficiency. Choosing a north or south ping companies.			
1.5. Modes of Instruction	X Lectures Seminars and workshops X Exercises E-learning Field work	Practical work Multimedia and Network Laboratory Mentorship Other			
1.6. Comments					
1.7. Student Obliga	tions				



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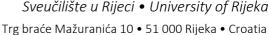
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- 1. attending classes,
- 2. attendance at exercises (seminar, case study, practical work)
- 3. written exam (colloquiums 1 and 2)
- 4. final exam

1.8. Assessment¹ of Learning Outcomes

Course attendance	0,5	Class participation	Seminar paper	1,5	Experiment	
Written exam	3	Oral exam	Essay		Research	
Project		Continuous Assessment	Presentation		Practical work	
Portfolio						

¹ **NOTE:** Name the proportion of ECTS credits for each activity so that the total number of ECTS credits is equal to the ECTS value of the course. Use empty fields for additional activities.



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1.9. Assessment of Learning Outcomes and Examples of Evaluation during Classes and on the Final Exam

The process of evaluation of the acquired learning outcomes takes place during continuous assessment (through 2 tests 40%, Seminar / Case Study 20%, Activity 10%), and at the final part of the exam 30%.

Examples of evaluating learning outcomes in relation to set learning outcomes are:

- 1. Describe the functional role of the terminal by type of cargo as a logistics system?
- 2. Describe the transformation of cargo flows?
- 3. Provide also a general description of the type of data that describes the terminal goods flows?
- 4. Analyze the port in logistics systems and describe what ports they need to own?
- 5. Describe the evolution of the supply chain relative to ports?
- 6. Explain the value-added logistics and development of VAL services in ports?
- 7. Describe the maritime conditions for the use of north and south European routes?
- 8. Analyze the strategy of arriving at a designated port by shipping companies?
- 9. Explain and describe the basic parameters for deciding a liner to arrive at a particular port?
- 10. Explain the concept of competitiveness of the traffic route on the example of Port of Rijeka?

1.10. Main Reading

- 1. Hlača, B.: Logistika luka, Merlin, E-Learning System, Faculty of Maritime Studies, Rijeka, 2017
- 2. Hlača, B.: Lučka logistika, University of Rijeka, Faculty of Maritime Studies, Rijeka 2016.

1.11. Recommended Reading

- 1. Branch, A.E.: Global Supply Chain Management and International Logistics, Taylor & Francis e-Library, New York, 2008. 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.
- 2. Bichou, K.: Port Operation, Planning and Logistics, Lloyds Practical Shipping Guides, Oxon, UK 2013.
- 3. Burns, M.G., Port Management and Operation, Boca Raton, U.S. 2015.
- 4. COELLI, T., PRASADA Rao D.S., BATTESE, G.E.: An introduction to Efficiency and Productivity Analysis, Kluwer Accademic Publishers, Boston, Dordercht and London, 1998.
- 5. LANGEN, P.W., Port competition and selection in contestable hinterlands, Rotterdam 2005.
- 6. NOTTEBOOM, T.E., Container Port Competition in Europe, Antwerpen, 2014.
- 7. WANG, S., Efficient Global Containers Transport Network Design, Singapoore, 2014.

1.12. Number of Main Reading Examples Title Number of examples Number of students

1.13. Quality Assurance

The quality of study is constantly monitored in accordance with the ISO 9001 system implemented at the Faculty of Maritime Studies in Rijeka. An annual analysis of the exams is made, and once a semester a survey is conducted among students (attachment to the description of the faculty)





3.2. Course description

Generic information				
Head of Course	Full professor Tanja Poletai	Full professor Tanja Poletan Jugović, Ph.D		
Course	International forwarding			
Study Programme	Technology and Organization of Transport			
Level	Undergraduate/Bachelor			
Type of Course	Compulsory	Compulsory		
Year of Study	3	3		
Estimated Student	ECTS coefficient of Student Workload 4			
Workload and Methods of Instruction	Number of Hours (L+E+S) 30+15+0			

L. GENERAL COURSE DESCRIPTION

1.1. Course Objectives

Acquiring knowledge about the contributions and importance of the forwarding logistics in the transport and international trade systems. Legal determination of the system of the international forwarding. Knowledge of the international forwarder job structures, activities and tasks in the (international) physical and documentation flows of goods (cargo). Defining and simulating the tasks and activities of the forwarder and documentation and forms in the organization and providing of the import, export or transit job. Knowledge, interpretation and use of the Incoterms terms. Knowledge and monitoring of modern trends and choice in the business of international forwarders as logistics

1.2. Prerequisites for Course Registration

1.3. Expected Learning Outcomes

After passing the exam, students will be able to do the following:

- 1. Define the relevant terms, characteristics and role of the forwarding in the modern traffic environment.
- 2. Define and interpret the role and importance of the forwarding logistics in the international trade system and the transport system.
- 3. Distinguish between legal sources, contracts, documents and documents governing the rights, obligations and responsibilities of the forwarder and other stakeholders in the international trade business.
- 4. Know and distinguish the basic tasks, activities and role of the international forwarder in the planning, organization and implementation of the import, export or transit business.
- 5. Know the specific operations and activities of the forwarder in the provision of complete logistics services that impose cargo specifics, customer and market requirements.
- 6. Distinguish the forms, transport documents and other documents within the import, export or transit business.
- 7. Know, interpret and use communication specifics of foreign trade entities using the Incoterms term.
- 8. Explain current trends, challenges and strategies in the development and affirmation of an international forwarder as a logistics operator.

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1.4. Course Outline

The concept and relevant characteristics of the forwarders and forwarding (affirmation and development of the forwarding and logistics operators (3PL, 4PL ...) in the modern transport environment. Importance of the forwarding logistics in the transport system and in the international trading system. International forwarding as a system (characteristics, organizations for international forwarding, national and international forwarding associations). Legal regulation of the forwarding (legal framework, rights and obligations of the freight forwarders). Basic and special jobs, activities and tasks of the international freight forwarder. Incoterms terms. Modern trends and challenges in the business of international freight forwarders as logistics operators (global trends in logistics market, modern strategies of logistics operator,

forwarders as	logistic	s operators (global trends i	n logis	tics market, mode	rn strate	egies of logistics op	perator,
1.5. Modes o Instructi	-	∠LecturesSeminars and workshops∠ ExercisesE-learningField work		☐ Seminars and workshops ☐ Multimedia and Netw ☐ E-learning ☐ Mentorship		edia and Network tory	
1.6. Comme	nts						
1.7. Student	Obligat	ions					
Seminar work presentation, 1st colloquium, 2nd colloquium, final exam							
1.8. Assessm	nent¹ of	Learning Outcomes					
Course attendanc	1,5	Class participation		Seminar paper	0,5	Experiment	
Written exam	0,5	Oral exam		Essay		Research	
Project		Continuous Assessment	1,5	Presentation		Practical work	
Portfolio							
<u></u>				·		· · · · · · · · · · · · · · · · · · ·	

1.9. Assessment of Learning Outcomes and Examples of Evaluation during Classes and on the Final Exam

The procedure for evaluation of the acquired learning outcomes is carried out according to the Regulations on Studies of the University of Rijeka and the Regulations on Studies at the Faculty of Maritime Studies in Rijeka as follows:

- 70% of the acquired learning outcomes within the 1st colloquium (25%), the 2nd colloquium (25%) and through the presentation of a research assignment seminars (20%) are evaluated through continuous assessment during the class; the student must achieve at least 50% of points in each colloquium, and the presentation of the research assignment is evaluated on the basis of elaborated evaluation criteria;
- at the final exam 30% of the obtained learning outcomes are evaluated whereby the student must pass at least 50% of the points for passing the final exam.

Examples of evaluating learning outcomes in relation to set learning outcomes are:

- 1. Define and explain the terms: forwarder, forwarding, logistics operator, 3PL, 4PL., ...
- 2. Explain the role and importance of forwarding logistics in international trade business.
- 3. List the basic legal sources governing the forwarding business and interpret the rights, obligations and responsibilities of the forwarder.
- 4. List and explain the basic tasks of the forwarder: Instruction, delivery of goods, conclusion of contracts and transportation, conclusion of transport insurance contracts, (...) and interpret the legal status and role of the forwarder within them.

¹ **NOTE:** Name the proportion of ECTS credits for each activity so that the total number of ECTS credits is equal to the ECTS value of the course. Use empty fields for additional activities.



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- 5. Give and explain an example of a specific forwarder's business conditioned by a specific cargo / goods (...) and interpret the legal status, role of the shipper, and specific documents and documents within them.
- 6. Explain the purpose, function and information contained in the document forms (... bill of lading / consignment note / customs declaration ...)
- 7. Explain the role of the Incoterms term and interpret the obligations of the seller and buyer in the example of concrete parity (EXW, CIF, FOB, ...).
- 8. Explain and describe the impact and effects of contemporary trends and phenomena on the logistics services market (globalization, computerization,...) on the development and affirmation of the logistics operators.

1.10. Main Reading

- Course materials available at e-learning platform Merlin (https://moodle.srce.hr)
- Zelenika, R., Temelji logističke špedicije, Ekonomski fakultet Sveučilišta u Rijeci, Rijeka, 2005.

1.11. Recommended Reading

- Andrijanić, I., Aržek, Z., Prebežac, D., Zelenika, R., Transportno i špeditersko poslovanje, Zagreb, 2001.
- Incoterms 2010, Pravila tumačenja trgovinskih termina Međunarodne trgovinske komore, HGK, 2010
- Zelenika, R. Incoterms 2000 u teoriji i praksi 100 savjeta i 100 primjera, Ekonomski fakultet Sveučilišta u Rijeci, Rijeka, 2002.
- Zelenika, R., Međunarodna špedicija, Ekonomski fakultet Sveučilišta u Rijeci, Rijeka, 2000.
- Zelenika, R., Logistički sustavi, Ekonomski fakultet u Rijeci, Rijeka, 2005.

1.12. Number of Main Reading Examples

Title	Number of examples	Number of students
Course materials available at e-learning platform - Merlin	-	55
(https://moodle.srce.hr)		
Zelenika, R., Temelji logističke špedicije, Ekonomski fakultet	5	55
Sveučilišta u Rijeci, Rijeka, 2005.		

1.13. Quality Assurance

The quality of study is constantly monitored in accordance with the ISO 9001 standard implemented at the Faculty of Maritime Studies in Rijeka. An analysis of the exams is made annually, and a student survey is conducted once a semester.



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Table 2.

3.2. Course description

Generic information						
Head of Course	Mirjana Borucinsky	Mirjana Borucinsky				
Course	German Language 1					
Study Programme	Technology and Organization of Transport					
Level	Bachelor					
Type of Course	elective	elective				
Year of Study	III	III Semester V				
Estimated Student	ECTS coefficient of Student Workload 4					
Workload and Methods of Instruction	Number of Hours (L+E+S) 15 + 30+0					

of Instruction	Number of flours (L+L+3)	15 + 30+0			
L. GENERAL COURSE D	ESCRIPTION				
1.1. Course Objectives					
-	e course is to expand students' proficiency and in ng the specific terminology of logistics, managem Istry.	·			
1.2. Prerequisites for	r Course Registration				
Proficiency level B1.					
1.3. Expected Learni	ng Outcomes				
 Discuss general language Discuss technical top Differentiate between purposes. Translate technical top 	urse/passing the exam, students will be able to: uage topics in German. ics in German. en meanings of a term encountered in genera exts from German into Croatian (or another ta	arget language, e.g. English) and vice			
1.4 Course Outline					
Straßenverkehr, Schiene Geschäftskorrespondenz	m Bereich: Grundzüge der Beförderung. Verkehr: nverkehr, Luftverkehr). Verkehrsinfrastruktur. Tei (Anfrage, Angebot, Bestellung) Verben mit Präpositionen, Satzbau	= '			
1.5 Modes of Instruction	☐ Lectures☐ Seminars and workshops☐ Exercises☐ E-learning☐ Field work	Practical work Multimedia and Network Laboratory Mentorship Other			
1.6 Comments					
1.7 Student Obligation	ons				



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Students enrolled at the Faculty of Maritime Studies are expected to observe the code of conduct required by the academic institution, and regularly attend lectures and practical work sessions.

1.8 Assessment¹ of Learning Outcomes

Course attendance	1,5	Class participation		Seminar paper	Experiment	
Written exam		Oral exam	1	Essay	Research	
Project		Continuous Assessment	1,5	Presentation	Practical work	
Portfolio						

1.9 Assessment of Learning Outcomes and Examples of Evaluation during Classes and on the Final Exam

Through Partial Exams Student achieves up to 70% (Learning Outcomes from 1 to 5), while with the oral Final Exam (Learning Outcomes from 1 to 5) up to 30% of total Score.

Examples of Assessment of Learning Outcomes:

- 1. Beschreiben Sie verschiedene Begrüßungsrituale.
- 2. Identifizieren und erörtern Sie die Vor- und Nachteile der verschiedenen Arten von Transport.
- 3. Wie unterscheiden sich die folgenden Fachausdrücke 'Verkehr, Transport, Beförderung'
- 4. Übersetzen Sie den Text aus dem Deutschen ins Kroatische (Englische). Benutzen Sie dabei Fachterminologie.
- 5. Schreiben Sie einen Geschäftsbrief in dem Sie sich für ein Produkt interessieren.

1.10 Main Reading

- 1. Gutremuth, J., Konerding, B., Perseke, J., Seegert, N., *Güterverkehr Spedition Logistik*, Bildungsverlag EINS GmbH, Troisdorf, 2002.
- 2. Hering, A., Matussek, M., Geschäftskommunikation, Max Hueber Verlag, D-85737 Ismaning, 2004.
- 3. Teaching materials available at: moodle.srce.hr

1.11 Recommended Reading

- 1. Kunkel-Razum, Kathrin: Duden: Briefe gut und richtig schreiben. Dudenverlag, 2003.
- 2. Marčetić, T., Pregled gramatike njemačkog jezika, Školska knjiga, Zagreb, 1999.
- 3. Hurm, A., Njemačko-hrvatski rječnik, Školska knjiga, Zagreb, 1998.
- 4. Hurm., A., Jakić, B., Hrvatsko-njemački rječnik, Školska knjiga, Zagreb, 1999.

1.12 Number of Main Reading Examples

Title	Number of examples	Number of students
1. Gutremuth, J., Konerding, B., Perseke, J., Seegert, N.,		
Güterverkehr – Spedition – Logistik, Bildungsverlag EINS	web	
GmbH, Troisdorf, 2002.		
2. Hering, A., Matussek, M., Geschäftskommunikation, Max		
Hueber Verlag, D-85737 Ismaning, 2004		

1.13 Quality Assurance

The quality of the course is monitored in accordance with the ISO 9001 system and the European standards and guidelines for quality assurance, implemented at the Faculty of Maritime Studies in Rijeka. Once a year, the results of the course are analyzed and appropriate measures implemented accordingly.

¹ **NOTE**: Name the proportion of ECTS credits for each activity so that the total number of ECTS credits is equal to the ECTS value of the course. Use empty fields for additional activities.



3.2. Course description

Generic information				
Head of Course	Dr. sc. Neven Grubišić	Dr. sc. Neven Grubišić		
Course	Transport modeling fundamentals			
Study Programme	Technology and Organization of Transport			
Level	Undergraduate degree programme			
Type of Course	Obligatory			
Year of Study	3.			
Estimated Student	ECTS coefficient of Student Workload		4	
Workload and Methods of Instruction	Number of Hours (L+E+S) 30+15+0			

GENERAL COURSE DESCRIPTION

1.1. Course Objectives

To gain basic knowledge on modeling transport and transport networks and to apply simulation tools for transport modelling, strategic and tactical decision making..

1.2. Prerequisites for Course Registration

None

1.3. Expected Learning Outcomes

- 1. To distinguish transport system elements, network objects, their links and attributes.
- 2. To model transport demand groups, activities and demand patterns.
- 3. To explain process of 4-step modeling.
- 4. To create O-D matrix for transport demand, skim matrix and calculate impedance function using the software tool.
- 5. To determine parameter values for volume, flow, travel times and available routes from origin to destination using the software tool.
- 6. To generate isochrone map from origin-destination patterns using the software tool
- 7. To interpret results of national and regional transport models

1.4. Course Outline



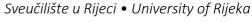
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Transport planning and modelling. Purpose of transport models. Transport models and transport strategies. Structure of model and methodology. Statistical data collection and sampling. Network design, zone system set-up. 4-step model of transport demand. EVA model. Tour model for cargo demand. Trip generation and aggregation. Category analysis. Trip distribution. O-D matrix. Network impendence and skim matrix. Forecast methods. Gravity method. Model calibration. Modal choice. Model assignment. Route choice. Public transport routes modeling and scheduling. Macro simulation tools for supporting decision making. Examples of transport models: national transport model for Croatia, transport models for functional regions.

1.5. Modes oj Instructio		∠Lectures∠ Seminars and workshops∠ Exercises∠ E-learning∠ Field work		Labora Mento	edia and Network tory		
1.6. Commen	ts	Lectures and assignments are performed in a specialized classroom					
1.7. Student Obligations							
Students are required to attend classes regularly and actively participate in lab exercises.							
1.8. Assessme	ent¹ of L	earning Outcomes					
Course attendance	1,5	Class participation	0,5	Seminar paper		Experiment	
Written exam		Oral exam	1	Essay		Research	
Project		Continuous Assessment		Presentation		Practical work	1
Portfolio							

¹ **NOTE:** Name the proportion of ECTS credits for each activity so that the total number of ECTS credits is equal to the ECTS value of the course. Use empty fields for additional activities.





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1.9. Assessment of Learning Outcomes and Examples of Evaluation during Classes and on the Final Exam

Attending classes

Class attendance: Learning outcomes 1-7: 10 pts

Activity during assignments

Interactive participation in transport system and transport network design: Learning outcomes 1-4: 20 pts *Practical works with simulation tool*

Results and their interpretations obtained from traffic models: Learning outcomes 5-7: 40 pts

Maximum of 70 credits or 70% of total score during teaching process is available. Maximum of 30 credits or 30% of total score may be earned during final exam.

Examples of evaluation by individual learning outcome:

- 1. Identify main symbol blocks in transport models and their meaning (I1)
- 2. Compose transport demand stratum according to groups of population, trip purpose and modal choice (12)
- 3. Explain each stage in 4-step method of transport modeling (I3)
- 4. Create O-D patterns and calculate impedance function for dedicated section (I4)
- 5. Design simple public transport network based on zone system for transport demand using simulation tool (I5)
- 6. Analyze results obtained from assignment process and time depend availability for selected locations (16)
- 7. Explain key characteristics of national or regional transport network according to results obtained from transport models and transport studies.

1.10. Main Reading

- 1. Oruzar, D. de J., Willumsen, L. G.: Modelling Transport, John Wiley & Sons, Ltd, Chichester, 2002.
- 2. PTV Visum Fundamentals, PTV Planung Transport Verkehr AG, Karlsruhe, 2012

1.11. Recommended Reading

1. Mehanović, M.: *Mreže u saobraćaju i komunikacijama*, Univerzitet u Sarajevu, Fakultet za saobraćaj i komunikacije, Sarajevo, 2015.

1.12. Number of Main Reading Examples

Title	Number of examples	Number of students
PTV Visum Fundamentals, PTV Planung Transport Verkehr AG, Karlsruhe, 2012.	accessible online	40

1.13. Quality Assurance

The quality is monitored in accordance with ISO 9001 standard carried out at the Faculty of Maritime Studies. The results of passed exams are analyzed once a year and proper measures taken.



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3.2. Course description

	Generic information			
Head of Course	Assist. prof. Livia Maglić, phD			
Course	Container Stacking Strategies			
Study Programme	Technology and Organization of Transport			
Level	Bachelor			
Type of Course	Core			
Year of Study	3rd			
Estimated Student	ECTS coefficient of Student Workload	4		
Workload and Methods of Instruction	Number of Hours (L+E+S)	30+15+0		

of Instruction	,				
		•			
1. GENERAL COURSE DESCR	PTION				
1.1. Course Objectives					
The objective of the course is to acquaint students with a set of factors, processes, and plans according to which container stacking on ship and terminal takes place.					
1.2. Prerequisites for C	ourse Registration				
None.					
1.3. Expected Learning	Outcomes				
 Specify and explain m Explain the loading/ui Explain and describe of the availabili Define operational log 	the container storage area by type and destinate thods for marking container storage area in a alloading plan on a ship on a given example container handling and stacking technologies ty and capacity utilization of the container storgistics problems at the container stacking area to packing and stacking methods and procedur of software tools	given terminal age area on a given example			
1.4. Course Outline					
area. Methods for mark of stacking containers o container handling equ logistic problems at the	ng process at the container stacking area. Basing a container stacking area. Container stacking area. Container stacking onto a ship and at the container stacking area in a ship and at the container stacking and stacking methods of good container stacking area. Methods for determinea. Evaluation of the relocation impact and the	ng policies and strategies. Basic plans Types of marks on containers and oods into a container. Operational ining the relocation of containers at			
1.5. Modes of Instruction	∠Lectures☐ Seminars and workshops∠ Exercises☐ E-learning∠ Field work	☑ Practical work☐ Multimedia and Network☐ Laboratory☑ Mentorship☐ Other			
1.6. Comments					
1.7. Student Obligatior	ns				



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- 1. Taking two colloquiums
- 2. Project assignment
- 3. Final exam

1.8. Assessment¹ of Learning Outcomes

Course attendance	1,5	Class participation		Seminar paper	Experiment	
Written exam		Oral exam	1,0	Essay	Research	
Project	0,5	Continuous Assessment	1,0	Presentation	Practical work	
Portfolio						

1.9. Assessment of Learning Outcomes and Examples of Evaluation during Classes and on the Final Exam

The procedure for evaluating the acquired learning outcomes is carried out according to the Regulations on Studies of the University of Rijeka and the Rulebook on Studies at the Faculty of Maritime Studies in Rijeka as follows:

- 70% of the acquired learning outcomes are evaluated through continuous knowledge assessment during the teaching process: through the 1st colloquium - learning outcomes 1-3 (25%), 2nd colloquium - 4-7 (25%), project work - learning outcomes 1-7 (20%);
- 30% of the acquired learning outcomes (1-7) are evaluated at the final part of the exam, with a minimum of 50% of available points necessary for passing the final exam.

Examples of evaluating learning outcomes regarding set learning outcomes are:

- 1. Explain the principle of stacking containers according to IMDG Code
- 2. Name the benefits of using AS cranes at the container stacking area
- 3. Interpret the container stowage plan on a given example
- 4. Calculate the capacity of the container block at the container stacking area
- 5. Analyze and compare a container relocation problem and pre-marshaling problem
- 6. Define specifics of logistics problems in the domain of tactical planning
- 7. Explain the process of loading goods into a container on a given example

1.10. Main Reading

- Thoresen, A.C. Port designer's handbook, Thomas Telford Publishing, London, 2003.
- Presentations of the course professor available on the e-learning system Merlin

1.11. Recommended Reading

 Maglić, L. Optimizacija raspodjele kontejnera na slagalištu lučkoga kontejnerskog terminala, doktorska disertacija, 2015.

1.12. Number of Main Reading Examples

Title	Number of examples	Number of students
Thoresen, A.C. Port designer's handbook, Thomas Telford Publishing, London, 2003.	1	40

1.13. Quality Assurance

The quality of study is continuously observed under the ISO 9001 system and following European standards and guidelines for quality assurance implemented at the Faculty of Maritime Studies, University of Rijeka. An analysis of the exams is given annually, and a survey among students is conducted by the semester.

¹ **NOTE:** Name the proportion of ECTS credits for each activity so that the total number of ECTS credits is equal to the ECTS value of the course. Use empty fields for additional activities he course. Use empty fields for additional activities.





3.2. Course description

	Generic i	nformation		
Head of Course	Biserka Rukavina, PhD	Biserka Rukavina, PhD		
Course	Shipping agencies	Shipping agencies		
Study Programme	Technology and Organization of Transport			
Level	Undergraduate degree programme			
Type of Course	Elective			
Year of Study	3.			
Estimated Student	ECTS coefficient of Student Workload 5			
Workload and Methods of Instruction	Number of Hours (L+E+S) 2+ 1 + 0			

GENERAL COURSE DESCRIPTION

1.1. Course Objectives

Acquiring knowledge of the basic characteristics of maritime agents. Understanding of the historical development of maritime agencies and the purpose of their establishment. Knowledge of the structure and the functions of maritime agents and identification the role and significance of maritime agents in the transport process. Affiliation this content with related courses in order to achieve and implement a multidisciplinary approach.

1.2. Prerequisites for Course Registration

No.

1.3. Expected Learning Outcomes

- 1. Correctly define and interpret the basic concepts of maritime agency business.
- 2. Distinguish and compare the international and national legal sources governing the organization and activities of maritime agencies and explain the role of international and national professional associations.
- 3. Highlight and justify certain types of the maritime agent (port agent, shipbroker, special operations).
- 4. Describe and justify ship arrival and departure procedures.
- 5. Explain and identify the essential elements of the maritime agency contract and analyze and compare individual types of contracts.
- 6. Describe and analyze the contents of the disbursement account.
- 7. Analyze, compare and demonstrate the specifics of the operations of maritime agents on the example of concrete maritime agencies.

1.4. Course Outline

The term and types of maritime agents. International and national legal sources governing the organization and activities of maritime agencies. Organization of maritime agencies. Port agent activities. Shipbroker activities. Disbursement account. Maritime Agency Contract — parties, subject matter of the contract, duration and termination of the contract. Analysis of individual type contracts (Agency Appointment Agreement, General Agency Agreement). The rights, obligations and liability of the maritime agent.

Trg braće Mažuranića 10 • 51 000 Rijeka • Croatia T: (051) 406-500 • F: (051) 216-671; 216-091 W: www.uniri.hr • E: ured@uniri.hr Lectures Practical work Seminars and workshops Multimedia and Network 1.5. Modes of Exercises Laboratory Instruction E-learning Mentorship Field work Presentation 1.6. Comments 1.7. Student Obligations Class attendance. Practical work (Power Point presentation). The colloquiums. Final exam. 1.8. Assessment¹ of Learning Outcomes Course 1,5 Class participation Seminar paper 0,5 Experiment attendance Written exam 1 Oral exam Research Essay Project Continuous Assessment 2 Presentation Practical work Portfolio 1 NOTE: Name the proportion of ECTS credits for each activity so that the total number of ECTS credits is equal to the ECTS value of the course. Use empty fields for additional activities. 1.9. Assessment of Learning Outcomes and Examples of Evaluation during Classes and on the Final Exam 70 % in class and 30% on the final exam (according to the Ordinance on Studies of the University of Rijeka and the Ordinance on Studies of the Faculty of Maritime Studies in Rijeka). Continuous knowledge assessment: 2 colloquiums (30 points each). Practical work/presentation (10 points). Final exam. The final exam (written exam) checks the integrity of knowledge about maritime agencies and a minimum of 50% correct answers (15 points out of total 30 points) must be obtained. 1. Specify the definition of a maritime agent in accordance with national legal sources. 2. Describe the procedure for establishing a maritime agency in the Republic of Croatia in accordance with national regulations. 3. Provide two examples of shipbroker functions. 4. Describe one document to be provided by the ship/master/agent in international navigation in the document Notice of Arrival and explain the purpose of obtaining it. 5. Specify the charges the ship may have when entering the port and explain what the charges depends on. 6. Explain the possible consequences of the agent's conduct contrary to the principal's order. 7. Describe the structure of the modern maritime agency. 1.10. Main Reading Teaching material available in the e-learning system.

1.11.

Recommended Reading

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- 1. Borčić, Vojslav, Ugovor o pomorskoj agenciji, Komentar Pomorskog zakonika, Udruga pomorskih agenata Hrvatske, Rijeka, 1999.
- 2. Pomorski zakonik (pročišćeni tekst) Ugovor o pomorskoj agenciji čl. 674. 683.
- 3. Opći uvjeti poslovanja pomorskih agenata, 2009.; Udruga pomorskih agenata Hrvatske.

1.12. Number of Main Reading Examples

Title	Number of examples	Number of students
Teaching material available in the e-learning system.		40

1.13. Quality Assurance

The quality of study is monitored in accordance with the ISO 9001 system and in accordance with European standards and guidelines for quality assurance carried out at the Faculty of Maritime Studies University of Rijeka. Once a year, the results of the transience are analyzed and appropriate measures are adopted.



3.2. Course description

Generic information					
Head of Course	Associate professor Siniša	Associate professor Siniša Vilke, Ph.D.			
Course	Land transport technology				
Study Programme	Technology and organization of transport				
Type of Course	Obligatory	Obligatory			
Year of Study	3				
Estimated Student	ECTS coefficient of Student Workload 5				
Workload and Methods of Instruction	Number of Hours (L+E+S)				

GENERAL COURSE DESCRIPTION

1.1. Course Objectives

The objective of the course is to acquire basic knowledge about traffic planning of land transport infrastructure facilities, exploitation characteristics of road and railway vehicles and bandwidth of road and railway transport infrastructure to make transport engineering synthesis of land transport technologies

1.2. Prerequisites for Course Registration

1.3. Expected Learning Outcomes

- 1. To interpret the methodology of transport planning for land infrastructure facilities
- To calculate the performance characteristics of road vehicles and determine their technical and transport characteristics based on the given parameters
- 3. To determine the transverse and longitudinal stability of road vehicles according to the given criteria
- 4. To explain the performance characteristics of rolling stock and determine and compare their performance indicators based on performance targets
- 5. To apply numerical methods in the analysis of the bandwidth of road and rail transport infrastructure
- 6. To explain and compare combined terrestrial transportation technologies
- 7. To interpret legal provisions in the organization of domestic and international land transport
- 8. To calculate the efficiency of fleet exploitation in road and rail transport according to the given parameters
- 9. To develop the task of analyzing a passenger or freight traffic line

1.4. Course Outline

Practical work



Project

Portfolio

1

Continuous Assessment

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Planning of land transport infrastructure and transport demand. Modal distribution of passenger and goods traffic. Road transport infrastructure. Road vehicles: exploitation characteristics of road vehicles, transverse and longitudinal stability. Technological specifics of road transport. Legislation in the organization of domestic and international transport. Railway transport infrastructure. Towing and rolling stock. Performance characteristics of railway vehicles. Graphical representation of train traffic (timetables). Technological specifics of railway transport. Bandwidth of road and rail transport infrastructure. Land transport technologies. Combined transport technologies. X Practical work X Lectures X Seminars and workshops Multimedia and Network 1.5. Modes of X Exercises Laboratory Instruction E-learning Mentorship Field work Other 1.6. Comments 1.7. Student Obligations The student must attend at least 70% of the total hours of lectures and exercises, create and present a seminar paper, and have passed the exams (continuous assessment) to take the final exam. 1.8. Assessment¹ of Learning Outcomes Course 1 Class participation 1 Seminar paper Experiment 1 attendance Written exam Oral exam 1 Essay Research

Presentation

¹ **NOTE:** Name the proportion of ECTS credits for each activity so that the total number of ECTS credits is equal to the ECTS value of the course. Use empty fields for additional activities.

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1.9. Assessment of Learning Outcomes and Examples of Evaluation during Classes and on the Final Exam

The procedure for evaluating the acquired learning outcomes is carried out by the Regulations on Studies of the University of Rijeka and the Regulations on Studies at the Faculty of Maritime Studies in Rijeka as follows: -70% of acquired learning outcomes within the 1st semester (25%), 2nd semester (25%), through the development of a programming assignment - a project (10%) and the presentation of a research assignment - seminars (10%); the student must achieve at least 50% of points in each midterm, and the presentation of the research assignment is evaluated based on elaborated evaluation criteria;

- at the final part of the exam, 30% of the obtained learning outcomes are evaluated whereby the student must pass at least 50% of the points for passing the final exam.

Examples of evaluating learning outcomes to set learning outcomes are:

- 1. To understand the methodology of transport planning for land infrastructure facilities
- 2. What are the basic procedures, benchmarks, and standards to achieve optimal solutions for balancing traffic supply and demand?
- 3. To understand the exploitation characteristics of road and rail vehicles?
- 4. What is included in road and rail transport infrastructure?
- 5. To explain the basic legal provisions of the organization of land transport infrastructure
- 6. What numerical methods do you know in the analysis of land transport systems?
- 7. To understand the application of combined transport technologies

1.10. Main Reading

- 1. Baričević, H.; Vilke, S.: Logistika i sigurnost kopnenog prometa, Pomorski fakultet u Rijeci, Rijeka, 2016.
- 2. Baričević, H.: Tehnologija kopnenog prometa, Pomorski fakultet u Rijeci, Rijeka, 2001.

1.11. Recommended Reading

- 1. Badanjak, D., Bogović, B., Jenić, V.: Organizacija željezničkog prometa, FPZ, Zagreb, 2006
- 2. Županović, I.: Tehnologija cestovnog prometa, FPZ, 2003, Zagreb
- 3. Baričević, H.: Promet u turizmu, Visoka škola za turistički menadžment, Šibenik, 2003.
- 4. Marušić, D.: Projektiranje i građenje željezničkih pruga, Građevinski fakultet, Split, 1994.
- 5. Padjen, J.: Osnove prometnog planiranja, Informator, Zagreb, 1986.
- 6. Cerovac, V.: Tehnika i sigurnost prometa, FPZ, Zagreb, 2001.
- 7. Zelenika, R.: Multimodalni prometni sustavi, Ekonomski fakultet, Rijeka, 2006.

1.12. Number of Main Reading Examples

Title	Number of examples	Number of students
Baričević, H.; Vilke, S.: Logistika i sigurnost kopnenog prometa, Pomorski fakultet u Rijeci, Rijeka, 2016.	10	
Baričević, H.: Tehnologija kopnenog prometa, Pomorski fakultet u Riejci, Rijeka, 2001.	10	

1.13. Quality Assurance

The quality of study is constantly monitored by the ISO 9001 system implemented at the Faculty of Maritime Studies in Rijeka. An analysis of the exams is made annually and a student survey is conducted once a semester.



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3.2. Course description

Generic information					
Head of Course					
Course	B.Sc. thesis				
Study Programme	Technology and Organization of Transport				
Level	undergraduate				
Type of Course	compulsory				
Year of Study	3				
Estimated Student	ECTS coefficient of Student Workload 10				
Workload and Methods of Instruction	Number of Hours (L+E+S)				

GENERAL COURSE DESCRIPTION

1.1. Course Objectives

The completion of a B.Sc. thesis resulting from continuous consultation with the supervisor and successful oral defense of the thesis through which the student shall demonstrate:

- the ability to apply theoretical and practical knowledge acquired during undergraduate studies,
- the ability of knowing and applying research methodology in scientific work,
- the ability to independently use current domestic or foreign literature in research, drafting and writing on the selected topic of the B.Sc. thesis,
- the ability to use relevant findings, attitudes and scientific facts established by others which have been published in used literature in accordance with the methodology of scientific and research work
- the ability to adequately process illustrations (tables, figures, photos, diagrams) according to the scientific research methodology.

1.2. Prerequisites for Course Registration

The student enrolls the course B.Sc. thesis by enrolling in the sixth (summer) semester of undergraduate studies, and the prerequisites for course enrollment are: successful completion of all courses from the fifth (winter) semester, there are no restrictions or prohibition to take course examinations in the fifth semester.

1.3. Expected Learning Outcomes

To apply theoretical and practical knowledge in an independent analysis of the topic, to adequately apply the methodology and technology for the completion of the B.Sc. thesis and to present conclusions and findings on the topic resulting from the research carried out for obtaining the B.Sc. thesis.

1.4. Course Outline

Practical work

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The B.Sc. thesis	is an inc	dependent professional and	d/or sc	ientific study of 1	he select	ed topic. By comple	ting
the B.Sc. thesis,	the stu	dent demonstrates compet	ences	and acquired ou	tcomes re	elated to problem	
solving within professional and scientific areas covered by the undergraduate study program Technology						gy	
-	Organization of Transport, as well as theoretical and practical knowledge acquired during						
undergraduate							
	_	ned, written and defended			•	· ·	-
		fend the B.Sc. thesis in anot	-	oreign) language	. The B.Sc	. thesis is defended	
orally in front o	f a B.Sc.	Thesis Defense Committee	•		_		
		Lectures			Practical		
1.5. Modes of		Seminars and worksho	ops		=	edia and Network	
Instruction		Exercises			∐ Labora [.]	•	
		E-learning			Mento	rship	
		Field work		2	Other _		
1.6. Comment	S						
1.7. Student O	bligatio	ns					
Student obligati	ions incl	ude: completion of the B.S.	c. thes	is in continuous	consultati	on with the supervi	sor
during the sum	mer sem	nester and successful defen	se of t	he B.Sc. thesis in	front of t	the defense	
Committee. The	e proced	lure for applying, completir	ng, def	ending and evalu	ating the	B.Sc. thesis is	
described in the	B.Sc. T	hesis Regulation for underg	gradua	te university stud	dy prograi	ms at the Faculty of	
Maritime Studie	es in Rije	eka.					
1.8. Assessme	nt¹ of Le	earning Outcomes					
Course		Class participation		Seminar paper		Experiment	
attendance		· ·	2			·	4
Written exam		Oral exam	2	Essay		Research	4

1.9. Assessment of Learning Outcomes and Examples of Evaluation during Classes and on the Final Exam

Presentation

In accordance with the Guidelines on the application of the information system for checking originality of student papers at the University of Rijeka, using the services provided by Turnitin (www.turnitin.com), the supervisor checks the originality of the B.Sc. thesis. Based on the analysis, the supervisor completes the B.Sc. Thesis Originality Report – Appendix C form (University of Rijeka) where he/she lists paper details and gives his/her decision whether the B.Sc. thesis meets the originality criteria as well as the rationale behind the decision. Positive assessment given by the supervisor and a positive re B.Sc. Thesis Originality Report are prerequisites for accepting the B.Sc. thesis and scheduling a date for its defense. The thesis is defended in front of the B.Sc. Thesis Defense Committee which is made up of three members including the supervisor. The members of the Committee examine the student and a record on the thesis defense process is kept, including questions asked by the Committee members and success of the candidate in defending the thesis.

1.10. Main Reading

4

Project

Portfolio

Main reading given in the course from which the thesis is selected.

Continuous Assessment

- Additional main reading in agreement with course head / lecturer- supervisor.
- Instructions for writing a B.Sc. thesis, editors: I. Kolanović, PhD, A. Perić Hadžić, PhD, Jurdana, PhD, I. Rudan, University of Rijeka, Faculty of Maritime Studies, Rijeka, January, 2020. Available at https://www.pfri.uniri.hr/web/hr/dokumenti/Upute za izradu zavrsnog rada PFRI 2020.pdf

¹ NOTE: Name the proportion of ECTS credits for each activity so that the total number of ECTS credits is equal to the ECTS value of the course. Use empty fields for additional activities.



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1.11. Recommended Reading

- Recommended reading given in the course from which the thesis is selected.
- Additional recommended reading in agreement with course head / lecturer- supervisor.

1.12. Number of Main Reading Examples

Instructions for writing a B.Sc. thesis, editors: I.
Kolanović, PhD, A. Perić Hadžić, PhD, Jurdana, PhD, I.
Rudan, University of Rijeka, Faculty of Maritime Studies, Rijeka, January, 2020.

Number of examples

Available at

https://www.pfri.uniri.hr/web/hr/dokumenti/Upute za i zradu zavrsnog rada PFRI 2020.pdf

1.13. Quality Assurance

The quality of study is constantly monitored in accordance with the ISO 9001 standard implemented at the Faculty of Maritime Studies in Rijeka. An analysis of the exams is made annually, and a student survey is conducted once a semester.



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	3.2. Course	description			
Generic information					
Head of Course	Vinko Tomas				
Course	Automation in transport				
Study Programme	Technology and Organization	Technology and Organization of Transport			
Level	Undergraduate degree programme				
Type of Course	Compulsory course				
Year of Study	3 years				
Estimated Student	ECTS coefficient of Student V	Vorkload	4		
Workload and Methods of Instruction	Number of Hours (L+E+S)		30+15+0		
 GENERAL COURSE DES 	SCRIPTION				
1.1. Course Objectives	S				
=	-	_	utomation, the principles of automatic of functioning of measuring, executing		

and regulating members and their elements, analysis of the structure and operation of process computers and programmable logic controllers and how to connect with traffic processes

1.2. Prerequisites for Course Registration

1.3. Expected Learning Outcomes

After passing the exam, students will be able to do the following:

- 1. Distinguish areas of automation with respect to different division criteria
- 2. Explain the basic structure of the automation system
- 3. Calculate the transfer function for the control circuit
- 4. Distinguish between types of automation elements and their basic characteristics
- 5. Apply standard techniques for adjusting the controller
- 6. Explain the basic structures of traffic system automation
- 7. Explain the basic structure of programmable logic controllers
- 8. Explain the basic principle of process computer operation in traffic systems

1.4. Course Outline

Areas of automation, legality of describing automation objects. Signals. Energies / media in automation and energy selection factors. Defining the transient and transfer function and the lawfulness of calculating the transfer function for various complex structures. Features of automatic control, automatic control and automatic process control. Principles and techniques of automatic control. The structure of the automatic control system. Basic components of control and control systems (measuring members, comparators, control devices, actuators, ...). Requirements for regulatory systems. Process computers and PLCs and their connection to a technical process. Automatic control and traffic control systems. Features of automatic control of traffic processes.

1.5. Modes of Instruction	✓ Lectures✓ Seminars and workshops✓ Exercises✓ E-learning✓ Field work	□ Practical work □ Multimedia and Network □ Laboratory □ Mentorship □ Other
1.6. Comments		

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177. Student Obligations

1st colloquium, 2nd colloquium, design and presentation of a research assignment in an hour of exercises, final exam

1.8. Assessment¹ of Learning Outcomes

Course attendance	1,5	Class participation	0,5	Seminar paper	0,5	Experiment	
Written exam	0,5	Oral exam		Essay		Research	
Project		Continuous Assessment	1	Presentation		Practical work	
Portfolio							

1.9. Assessment of Learning Outcomes and Examples of Evaluation during Classes and on the Final Exam

The procedure for evaluating the acquired learning outcomes is carried out in accordance with the Regulations on Studies of the University of Rijeka and the Regulations on Studies at the Faculty of Maritime Studies in Rijeka as follows:

- through continuous assessment of knowledge during class 70% of the acquired learning outcomes are assessed. Those include: 1st semester exam (midterm) learning outcomes 1-4 (25%), 2nd semester exam (midterm) learning outcomes 5-8 (25%), presentation of the research assignment (seminars) learning outcomes 1-8 (20%); the student must score at least 50% of points in each midterm, while the presentation of the research assignment is evaluated on the basis of elaborated evaluation criteria;
- 30% of the obtained learning outcomes (1-8) are evaluated at the final exam, with the student having to complete at least 50% of points for passing the final exam.

Examples of evaluating learning outcomes in relation to set learning outcomes are:

- 1. List the areas of automation, their features and the most common application
- 2. Draw a block diag. of the control circuit; mark the control members, elements and sizes in the control circuit
- 3. Calculate the transfer function for the given control circuit
- 4. The principle of operation and the areas of application of speed sensors used in traffic systems
- 5. Describe the setting of the control action for the PID controller (according to Zeigler-Nichols method)
- 6. Explain the basic structure, mode of operation and properties of the servo system
- 7. What is a PLC, its structure, what is a scene cycle, ways of programming a PLC
- 8. What elements participate in the process computer action on the technical process

1.10. Main Reading

- 1. V. Tomas, I. Šegulja, M. Valčić, Osnove automatizacije, Pomorski fakultet, Sveučilište u Rijeci, 2010.
- 2. E-course syllabus available on the e-learning system Merlin

1.11. Recommended Reading

- 1. Tehnika motornih vozila: 30. prerađeno i nadopunjeno izdanje, ISBN: 978-953-254-044-4, 788 str., Pučko otvoreno učilište Zagreb, 2017.
- 2. D. Sumina (2013.), SIMATIC automatizacijski sustavi, Graphis, Zagreb
- 3. http://www.rijekapromet.hr/hr/automatsko_upravljanje_prometom/5/16

1.12. Number of Main Reading Examples

Title	Number of examples	Number of students
V. Tomas, I. Šegulja, M. Valčić, Osnove automatizacije, Pomorski fakultet, Sveučilište u Rijeci, 2010.	55	55
E-course syllabus available on the e-learning system - Merlin	-	55

1.13. Quality Assurance

Quality assurance is based on Faculty ISO 9001 system. Yearly analyze is produced based on quantitative student examination data, and qualitative based on student survey derived at the end of each semester.

NOTE: Name the proportion of ECTS credits for each activity so that the total number of ECTS credits is equal to the ECTS value of the course. Use empty fields for additional activities.



3.2. Course description

	Generic information			
Head of Course	Dr. sc. Alen Jugović, full pro	Dr. sc. Alen Jugović, full professor		
Course	Shipping Economics			
Study Programme	Technology and Organization of Transport			
Level	Undergraduate	Undergraduate		
Type of Course	Elective			
Year of Study	3rd			
Estimated Student	ECTS coefficient of Student \	ECTS coefficient of Student Workload Number of Hours (L+E+S) 30		
Workload and Methods of Instruction	Number of Hours (L+E+S)			

GENERAL COURSE DESCRIPTION

1.1. Course Objectives

The goal of the course is to acquaint students with the field covered by the Shipping Economics and to apply this knowledge into specific cases in practice. Pursuant to the goal, the tasks and content of the course were designed in such a way that, by applying basic economic principles, the attempt was made to explain the business of shipping companies and all entities in the maritime transport service.

1.2. Prerequisites for Course Registration

None

1.3. Expected Learning Outcomes

After passing the exam, students will be able to do the following:

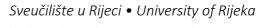
- 1. Explain the basic concepts within the shipping industry
- 2. Explain the specifics of each type of shipping and transportation technology
- 3. Explain the economic principles of doing business in maritime shipping
- 4. Apply techniques for calculating fares, ship costs and freight costs
- 5. Assess supply and demand for transportation
- 6. Understand the importance and impact of particular phenomena (globalization, informatization etc.) on the development and competitiveness of shipping companies

1.4. Course Outline

MARITIME SHIPPING ECONOMICS. Definition, subject of research, application of scientific and theoretical knowledge in practice.

CALCULATIONS. Measuring business results. Business success and benchmarks, productivity, economy, profitability.

SPECIAL TYPES OF MARITIME SHIPPING ACTIVITIES. Economic and technological criteria defining different types of shipping. Passenger shipping, free, liner, tanker shipping.



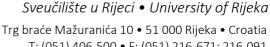


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		ES IN MARITIME SHIPPING rates in certain types of sh			es of fares.	Characteristics an	d
		RT COSTS. Definition of co Total costs of a ship's voya		es of costs in n	naritime sh	ipping. Fixed and	variable
SHIPPING	COSTS OPT	IMIZATION.					
		CATORS IN MARITIME SHIP size and speed of the ship		•	•	ess efficiency. Busi	ness
1.5. Mod Instr	es of uction	∠LecturesSeminars and workshops∠ExercisesE-learningField work		Practical work Multimedia and Network Laboratory Mentorship Other			
1.6. Com	ments						
1.7. Stude	ent Obligatio	ons					
Classroon	exercises a activity antinuous as	ssessment) and tests					
1.8. Asses	ssment¹ of L	earning Outcomes					
Course attendance	0,5	Class participation	0,5	Seminar paper		Experiment	
Written exam	2	Oral exam		Essay		Research	
Project Portfolio		Continuous Assessment	2	Presentation		Practical work	
	ssment of Le	earning Outcomes and Exar	nnles oi	f Evaluation dui	rina Classes	and on the Final F	- xam
Assessme and the fi 1. Define 2. Define conte	nt is carried nal exam. The the term nale economic of the term of term of term of term of term of ter	out by conducting two exc naritime shipping. and technological criteria t ger shipping, free shipping ne basic principles of econd	ams (co hat rep , liner s	ntinuous assess resent differen hipping and tai	sment), two t types of m nker shippir	tests during the c	lasses
4. Expla	n which par	rameters are taken into acc the calculation of the fare?	count w		_	how the defined tr	ansport
5. What	are the fact	tors in the maritime marke		ffect the quant	ity of suppl	y and the quantity	of
	nd for trans n how globo	port? alization affects the compe	titivene	ess of shipping o	companies.		

¹ **NOTE:** Name the proportion of ECTS credits for each activity so that the total number of ECTS credits is equal to the ECTS value of the course. Use empty fields for additional activities.







1.10. Main Reading

- 1. Domijan-Arneri, I.: Poslovanje u morskom brodarstvu, Redak, Split, 2014.
- 2. Kesić, B; Jugović, A.; Debelić, B.: Ekonomika brodarstva riješeni zadaci, Pomorski fakultet Sveučilišta u Rijeci, Rijeka, 2013.
- 3. Stopford, M.: Maritime Economics, Routledge, London & New York, 2009.

1.11. Recommended Reading

- 1. Kesić, B., Jugović, A.: Menadžment pomorskoputničkih luka, Pomorski fakultet Sveučilišta u Rijeci, Rijeka, 2006.
- 2. Wayne K. Talley: The Blackwell Companion to Maritime Economics, John Wiley & Sons, 2011.

1.12. Number of Main Reading Examples			
Title		Number of examples	Number of students
Domijan-Arneri, I.: Poslovanje u morskom broda Split, 2014.	rstvu, Redak,	20	
Kesić, B; Jugović, A.; Debelić, B.:Ekonomika brodarstva riješeni zadaci, Pomorski fakultet Sveučilišta u Rijeci, Rijeka, 2013.		10	
Stopford, M.: Maritime Economics, Routledge, L New York, 2009.	ondon &	10	

1.13. Quality Assurance

The quality of study is monitored in accordance with the ISO 9001 system and in accordance with European standards and guidelines for quality assurance implemented at the Faculty of Maritime Studies in Rijeka.

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3.2. Course description

Generic information					
Head of Course	Assoc. Prof. Borna Debelić,	Assoc. Prof. Borna Debelić, PhD			
Course	Transport Economics	Transport Economics			
Study Programme	Technology and Organization	Technology and Organization of Transport			
Level	Undergraduate degree pro	Undergraduate degree programme			
Type of Course	Elective				
Year of Study	3	VI			
Estimated Student	ECTS coefficient of Student Workload		5		
Workload and Methods of Instruction	Number of Hours (L+E+S)	2+1+0			

1. GENERAL COURSE DESCRIPTION

1.1. Course Objectives

Acquiring knowledge from a special area of transport economics, necessary for those responsible for the performances of the main economic activities in the transport sector. The aim of the course is to systematically handle economic, exploration and technical problems of transport system and corresponding branches.

1.2. Prerequisites for Course Registration

No additional prerequisites

1.3. Expected Learning Outcomes

It is expected that students after passing the exam can:

- 1. Explain the elements of the transport system and correlation between transport and economic development
- 2. Emphasize and explain the economic aspects of the functioning of the transport system
- 3. Identify and interpret transport system elements, horizontally and vertically
- 4. Explain the externalities in transport
- 5. Identify the underlying objects of the transport infrastructure and explain the related cost concepts and evaluation of the transport infrastructure construction
- 6. Describe and explain the principles and content of economic development in different transport
- 7. Understand the underlying concepts and interpret the approaches in transport policy

1.4. Course Outline

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the economic of transport Transport inf branches. Tra rail transport	c function f	f the transport system by honing of the transport system of the transport system cuture. Privatization, liberal cure objects and cost conces system and policy. Economics of air traffic and transport system.	em. Eco lization epts. Ex nics of of pos	onomic and financian, globalization and dernalities in transport and tal and telecommu	al evaluation o deregulation i port. Co-opera transport syst nication servic	f the constr in transport tion of tran em. Econor es and tran	ruction . sport nics of sport
1.5. Modes of Instructio		∠Lectures∠ Seminars and worksho∠ Exercises∠ E-learning∠ Field work	ops		ractical work Aultimedia and aboratory Aentorship Other	d Network	
1.6. Commen	ts						
1.7. Student (Obligatio	ons					
 Attending classes Actively participate in classes Study, research and solving tasks Colloquiums Final exam 							
1.8. Assessme	ent¹ of L	earning Outcomes					
Course attendance	1,5	Class participation	0,5	Seminar paper	Experin	nent	
Written exam	1	Oral exam	1	Essay	Researd	ch	
Project		Continuous Assessment	1	Presentation	Practica	al work	
Dortfolio							

Transport system and economic development aspects. Importance of transport and traffic in economic

¹ **NOTE:** Name the proportion of ECTS credits for each activity so that the total number of ECTS credits is equal to the ECTS value of the course. Use empty fields for additional activities.



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1.9. Assessment of Learning Outcomes and Examples of Evaluation during Classes and on the Final Exam

Through colloquiums, experiment and course attendance and participation students achieve up to 70% (Learning Outcomes from 1 to 7), while with the written Final Exam (Learning Outcomes from 1 to 7) up to 30% of total score.

Examples of Assessment of Learning Outcomes:

- 1. Describe and discuss elements of the transport system and the relationship between transport and economic development (Learning Outcome 1)
- 2. Describe and explain the economic aspects of the functioning of the transport system (Learning Outcome 2)
- 3. Describe the elements of the transport system, horizontally and vertically (Learning Outcome 3)
- 4. Describe and explain the externalities in transport (Learning Outcome 4)
- 5. Identify the underlying objects of the transport infrastructure and explain the related cost concepts and evaluate the construction (Learning Outcome 5)
- 6. Explain and describe the principles and content of economic development in different transport branches (Learning Outcome 6)
- 7. Identify the underlying concepts and explain the approaches in transport policy (Learning Outcome 7)

1.10. Main Reading

- 1. Perić, T., Radačić, Ž.., Šimulčik, D. (2000). Ekonomika prometnog sustava. Zagreb: Sveučilište u Zagrebu, Fakultet prometnih znanosti.
- 2. Stopford, M. (2009). Maritime Economics. London & New York: Routledge.

1.11. Recommended Reading

- 1. Quinet, E., Vickerman, R. (2004). Principles of Transport Economics. Cheltenham: Edward Elgar.
- 2. Kesić, B; Jugović, A.; Debelić, B. (2013). Ekonomika brodarstva: riješeni zadaci. Rijeka: Pomorski fakultet Sveučilišta u Rijeci.
- 3. Jelinović, Z. (1983). Ekonomika prometa i pomorstva. Zagreb: Informator.

1.12. Number of Main Reading Examples Title Number of examples Number of students 1.13. Quality Assurance



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3.2. Course description

	Generic information				
Head of Course	Sandra Tominac Coslovich,	Sandra Tominac Coslovich, PhD, Associate professor			
Course	English Language 6	English Language 6			
Study Programme	Technology and Organization	Technology and Organization of Transport			
Level	Undergraduate degree pro	Undergraduate degree programme			
Type of Course	Elective				
Year of Study	3				
Estimated Student	ECTS coefficient of Student	Workload	4		
Workload and Methods of Instruction	Number of Hours(L+E+S)		15+30+0		

1.GENERAL COURSE DESCRIPTION

1.1.Course Objectives

The goal of the course is to master the basic and specialist linguistic knowledge in English to enable students to understand, interpret and use terms related to agency business, technology of traffic and transport, ship management and legal regulations relevant for performing professional work, as well as for written and spoken business communication in maritime affairs and transport in English.

1.2.Prerequisites for Course Registration

Successfully passing English language 5

1.3.Expected Learning Outcomes

After passing the exam, the students will be able to:

- 1. Show the four basic language skills in English: reading, writing, listening and speaking at B2 level (independent user) according to the Common European Framework of Reference for Languages (CEF).
- 2. Demonstrate language knowledge and skills for performing professional work in maritime business and transport in English.
- 3. Speak about and discuss professional topics in English.
- 4. Translate texts from the professional field from English into Croatian and vice versa.
- 5. Give a presentation independently on a topic from the field of maritime transport and logistics in English.
- 6. Use linguistic abilities in written and spoken communication in English among business subjects from the maritime public and private sector.

1.4.Course Outline

Professional vocabulary (terminology, compounds, collocations, lexical sets), characteristics of the discourse/texts from relevant fields of vocation, relevant elements of grammar (syntax of complex sentences, lexical characteristics of discourse, pragmalinguistic elements) in selected professional written and spoken texts about the following extra-linguistic topics: cargo claims, letters of protest, notes of sea protest, ship management, methods of payment in international trade

Trg braće Mažuranića 10 • 51000 Rijeka • Croatia T: (051)406-500 • F: (051)216-671; 216-091 W: www.uniri.hr • E: ured@uniri.hr Lectures Practical work Seminars and workshops Multimedia and Network 1.5.Modes of X Exercises Laboratory Instruction E-learning Mentorship Field work Other 1.6.Comments 1.7. Student Obligations 1st midterm exam, 2nd midterm exam, seminar paper, final exam (oral) 1.8. Assessment of Learning Outcomes Course 1,5 0,5 Class participation Seminar paper Experiment attendance Written exam Oral exam 1 Essay Research Project Continuous Assessment 1 Practical work Presentation Portfolio 1 NOTE: Name the proportion of ECTS credits for each activity so that the total number of ECTS credits is equal to the ECTS value of the course. Use empty fields for additional activities. 1.9.Assessment of Learning Outcomes and Examples of Evaluation during Classes and on the Final Exam The procedure of assessment of learning outcomes is performed according to the University of Rijeka Regulations on the Studies and the Regulations on the Studies of the Faculty of Maritime Studies in the following 2 continuous written assessments (60%), seminar paper (20%), final oral exam (20%) Examples of outcome assessment in relation to the set outcomes are: 1. After reading the text, name the kinds of damage that can be found on cargo. 2. Explain the English term *Letter of protest*. 3. State the Croatian equivalent and explain the term cargo claim. 4. Translate the text about ship management using professional terminology. 5. What kinds of payment are used in international commerce? 6. Following the given hints, compose an official enquiry to the bank by e-mail regarding the delivery of a bank statement. 1.10. Main Reading

- 1. Ashley, A. 2003. Oxford Handbook of Commercial Correspondence. Oxford University Press.
- 2. B.J.Naterop, E.Weis, E.Haberfellner: 1987. Business Letters for All, OUP.
- 3. Pritchard, B. 2001. English in Shipping, selected units on Merlin (moodle.srce.hr)
- 4. Teaching materials available on the e-learning platform Merlin.

1.11. Recommended Reading

- 1. S.S.Weeney: English for Business Communication, CUP, second edition
 - 1.12. Number of Main Reading Examples

Title Number of examples Number of students

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Ashley, A. 2003. Oxford Handbook of Commercial Correspondence. Oxford Univeristy Press.	5	25
B.J.Naterop, E.Weis, E.Haberfellner: Business Letters for All, OUP,19	5	25
Pritchard, B. 2001. <i>English in Shipping</i> . https://www.pfri.uniri.hr/bopri/Shipping.html	5	25
Teaching materials available on the e-learning platform Merlin.	Available online	25

1.13. Quality Assurance

The quality of the course is monitored in accordance with the ISO 9001 system implemented at the Faculty of Maritime Studies in Rijeka. Once a year, the results of the course are analyzed and a survey is conducted among the students once per semester.



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3.2. Course description

Generic information				
Head of Course	Dragan Čišić, Ph.D.			
Course	Logistics engineering			
Study Programme	Technology and Organization of Transport			
Level	Undergraduate degree programme			
Type of Course	elective			
Year of Study	3rd			
Estimated Student Workload and Methods of Instruction	ECTS coefficient of Student Workload	6		
iviethous of ilistruction	Number of Hours (L+E+S)	30 + 30 + 0		

GENERAL COURSE DESCRIPTION

1.1. Course Objectives

The aim of this course is to present the analytical tools, approaches and techniques required to organize and operate the logistics system and integrated supply chains in transportation.

The four basic tasks of the course are:

- 1. Introduce students with the analytical approach to logistics systems analysis
- 2. Strengthening the importance of using analytical tools throughout the supply chain
- 3. Teaching students the techniques of measuring and managing uncertainty in the supply chain
- 4. Introducing the idea of using multiple solutions to solve real logistical problems.

Students will learn methods and calculations:

- 1. planning and allocation of resources,
- 2. vehicle routing
- 3. logistics costs
- 4. inventory management and
- 5. determining the optimal location of the logistics resource.
 - 1.2. Prerequisites for Course Registration

Completed courses Basics of Logistics, Mathematics and Basics of Economics

1.3. Expected Learning Outcomes

After passing the exam students will be qualified for:

- 1. Understanding and applying the basic concepts of logistics, contemporary theoretical and practical developments in the field of logistics and supply chain.
- 2. Understanding the complex and interactive flows and functions of logistics.
- 3. Analyzing and understanding physical, information and cash flows in logistics.
- 4. Knowledge of model and budget of logistics systems
- 5. Forecasting logistics needs
- 6. Calculation of the logistics network, resource allocation, vehicle routing, logistics costs, inventory management and determining the optimal location of the logistics resource.

1.4. Course Outline



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Logistics, Logi	stics Planni	ng, Logistics Stra	ategies, Ma	anagement, Qual	ity and Effic	ciency in Logistics, Go	oods
and Services Distribution Systems, Distribution Channels, Analysis of Individual Transport Branches, General							
Traffic, Produ	Traffic, Production Turnover, Transportation Costs, Shipping Logistics, Logistics Network Modeling,						
Modeling and	Logistics Si	mulation, Trans	portation S	System Analysis,	Document	Flow Models, Freight	t Flow
_	_		-	•		erishability Costs, Inv	
			•	•	•	ortation Costs, Storag	•
X Letures							
			Semir	nars and		☐ Practical work X Multimedia and Network	
15 Mod	es of Instruc	ction	worksho			umedia and Network poratory	
1.5. 17100	es of mstruc	CHOIT	X Exercis			entorship	
			X E-learr	•		ner	
			Field	work			
1.6. Com	ments						
	ent Obligati						
	attendance						
	ty during c						
	-	-learning platfoing the mid-tern					
		outer-assisted e					
	ng the final		ACT CISCS				
0. 1 455	.8	CAGIII					
1.8. Asses	ssment¹	of Learning					
Outc	omes						•
Course	2	Class	0,5	Seminar		Experiment	
attendance Written exam	1,5	participation Oral exam		paper Essay		Research	
	1,5	Continuous	2				
Project		Assessment	2	Presentation		Practical work	
Portfolio							
1.9. Asses	ssment of L	earning Outcom	es and Exa	mples of Evaluat	ion during (Classes and on the Fir	nal Exam
Evaluation inc	ludes:						
1. Know	ledge asses	sment through	two tests				
				m during the cla	SS,		
3. Know	ledge asses	sment by comp	uter calcula	ation of logistics	tasks		
	ng the final	•		S			
	Ü						
Examples of e	valuating le	earning outcome	es:				
•	_	_		upply chain man	agement		
•		tics flows and co			J		
	_	hicle routing.	ı				
		_	n. calculate	e the guantity of	goods and	the time of ordering	
		demand based			OSSAS ANA	s or ordering	
1.10.	Main Red						
1.10.	iviuili nel	auniy					

¹ **NOTE**: Name the proportion of ECTS credits for each activity so that the total number of ECTS credits is equal to the ECTS value of the course. Use empty fields for additional activities.



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- 1. Čišić, D., *Logistics Engineering*, online lectures. Available at: http://moodle.srce.hr/2016-2017/course/view.php?id=12969
- 2. Taylor, G. D., Introduction to Logistics Engineering, CRC Press, Florida, 2008.
- 3. Čišić, D., Workbook of logistics tasks, Faculty of Maritime Studies, Rijeka, 2008

1.11. Recommended Reading

- 1. Ballou, R. H., *Business logistics: Supply chain management*, Prentice Hall; 5 edition, New Jersey, 2003
- 2. Brandimarte, P., Zotteri, G., *Introduction to Distribution Logistic*, Wiley-Interscience; 1st edition, Hoboken, 2013

1.12. Number of Main Reading Examples Title Number of examples Number of students Taylor, G. D., Introduction to Logistics Engineering, CRC Press, Florida, 2008. Čišić, D., Workbook of logistics tasks, Faculty of Maritime Studies, Rijeka, 2008

1.13. Quality Assurance

The quality of study is constantly monitored in accordance with the ISO 9001 system implemented at the Faculty of Maritime Studies in Rijeka. An analysis of the exams is made annually and a student survey is conducted once a semester. All data, including exam, written work and assessment, are at all times public data for all students who have enrolled in the course (on the e-learning platform).



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Table 2.

3.2. Course description

	Generic information					
Head of Course	Mirjana Borucinsky					
Course	German Language 2	German Language 2				
Study Programme	Technology and Organization	Technology and Organization of Transport				
Level	Bachelor	Bachelor				
Type of Course	elective					
Year of Study	III	Semester		VI		
Estimated Student	ECTS coefficient of Student \	Norkload		4		
Workload and Methods of Instruction	Number of Hours (L+E+S) 15 + 30+0			15 + 30+0		

L. GENERA	L COURSE DE	SCRIPTION		
1.1. Co	urse Objective	es .		
communica	-	course is to expand students' pr g the specific terminology of logi stry.	·	•
1.2. Pro	erequisites for	Course Registration		
Proficiency	level B1.			
1.3. Ex	pected Learnin	g Outcomes		
 Discuss Discuss Differer purposo Transla versa. Use lan 	general langu technical topi ntiate betwee es. te technical te	n meanings of a term encount	ered in general n (or another tar	language and language for specific get language, e.g. English) and vice ding.
Geschäftsko	_	n Bereich: Seefracht. Güterumsc (Bestellung, Widerruf, Versandar bildung.	_	ichtungen. Häfen.
1.5 Mo Inst	des of truction	 ✓ Lectures ✓ Seminars and workshops ✓ Exercises ✓ E-learning ✓ Field work] [] [Practical work Multimedia and Network Laboratory Mentorship Other
1.6 Cor	nments			
1.7 Stu	dent Obligatio	ns		
Students er	rolled at the F	aculty of Maritime Studies are e	xpected to obser	ve the code of conduct required by



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the academic institution, and regularly attend lectures and practical work sessions.

1.8 Assessment¹ of Learning Outcomes

Course attendance	1,5	Class participation		Seminar paper	Experiment	
Written exam		Oral exam	1	Essay	Research	
Project		Continuous Assessment	1,5	Presentation	Practical work	
Portfolio						

1.9 Assessment of Learning Outcomes and Examples of Evaluation during Classes and on the Final Exam

Through Partial Exams Student achieves up to 70% (Learning Outcomes from 1 to 5), while with the oral Final Exam (Learning Outcomes from 1 to 5) up to 30% of total Score.

Examples of Assessment of Learning Outcomes:

Examples of Assessment of Learning Outcomes:

- 1. Erörtern Sie die Vor- und Nachteile verschiedener Energiequellen.
- 2. Nennen Sie verschiedene Arten von Verladeeinrichtungen...
- 3. Wie unterscheiden sich die folgenden Fachausdrücke: 'umschlagen' 'umladen'?
- 4. Übersetzen Sie den Text aus dem Deutschen ins Kroatische (Englische). Benutzen Sie dabei Fachterminologie.
- 5. Schreiben Sie einen Geschäftsbrief in dem Sie bestätigen dass die Bestellung durchgeführt wurde.

1.10 Main Reading

- 1. Gutremuth, J., Konerding, B., Perseke, J., Seegert, N., *Güterverkehr Spedition Logistik*, Bildungsverlag EINS GmbH, Troisdorf, 2002.
- 2. Hering, A., Matussek, M., Geschäftskommunikation, Max Hueber Verlag, D-85737 Ismaning, 2004.
- 3. Teaching materials available at: moodle. srce.hr

1.11 Recommended Reading

- 1. Kunkel-Razum, Kathrin: Duden: Briefe gut und richtig schreiben. Dudenverlag, 2003.
- 2. Marčetić, T., Pregled gramatike njemačkog jezika, Školska knjiga, Zagreb, 1999.
- 3. Hurm, A., Njemačko-hrvatski rječnik, Školska knjiga, Zagreb, 1998.
- 4. Hurm., A., Jakić, B., Hrvatsko-njemački rječnik, Školska knjiga, Zagreb, 1999.

1.12 Number of Main Reading Examples

Title	Number of examples	Number of students
 Gutremuth, J., Konerding, B., Perseke, J., Seegert, N., Güterverkehr – Spedition – Logistik, Bildungsverlag EINS GmbH, Troisdorf, 2002 		
 Hering, A., Matussek, M., Geschäftskommunikation, Max Hueber Verlag, D-85737 Ismaning, 2004 		

1.13 Quality Assurance

The quality of the course is monitored in accordance with the ISO 9001 system and the European standards and guidelines for quality assurance, implemented at the Faculty of Maritime Studies in Rijeka. Once a year, the results of the course are analyzed and appropriate measures implemented accordingly.

¹ **NOTE**: Name the proportion of ECTS credits for each activity so that the total number of ECTS credits is equal to the ECTS value of the course. Use empty fields for additional activities.





3.2. Course description

Generic information					
Head of Course	Biserka Rukavina, PhD	Biserka Rukavina, PhD			
Course	Maritime transport law	Maritime transport law			
Study Programme	Technology and Organization	Technology and Organization of Transport			
Level	Undergraduate degree pro	Undergraduate degree programme			
Type of Course	Elective				
Year of Study	3.				
Estimated Student	ECTS coefficient of Student Workload		4		
Workload and Methods of Instruction	Number of Hours (L+E+S) 3+ 0 + 0				

GENERAL COURSE DESCRIPTION

1.1. Course Objectives

Provide students with basic knowledge of the legal principles and standards relating to the essential institutes of maritime private law, and to inform students of the manner and legality of the functioning of the essential stakeholders of sea trade, in particular in the sphere of maritime transport. The aim is to enable students to understand the basic legal concepts on which maritime operations are based, to the extent necessary to carry out the tasks for which students are educated.

1.2. Prerequisites for Course Registration

No.

1.3. Expected Learning Outcomes

After the exam is passed, students will be able to do the following:

- 1. Define and interpret the basic legal principles and norms relating to the essential institutes of maritime private law.
- 2. Explain the basic concepts of proprietary rights on a ship and distinguish and describe the specifics of right of ship owner and other proprietary rights on a ship (mortgage and maritime lien).
- 3. Define and explain the rights, obligations and responsibilities of the essential stakeholders of navigation business on the basis of international and national maritime property law.
- 4. Distinguish and interpret the contracts for the exploitation of ships (contract for the carriage of goods, contract for carriage of passengers and luggage by sea, tow contract, multimodal transport).
- 5. Analyze and explain the documents used in the sea trade.
- 6. Explain the role and importance of insurance in maritime affairs, interpret the specificities of the hull and machinery insurance, the insurance of goods and describe the organization, activities and function of P&I clubs.

1.4. Course Outline

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0,5

Experiment

Practical work

Research

Seminar paper

Presentation

Essay

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 Ship's proprietary Persons in maritim forwarder, steved Bareboat charter. Contracts for the 6 Contracts for the 6 Transport docume Liability of the care 	rier; general limitation of liability in the ma ce (term, legal sources, maritime insurance	consignee, maritime agent, freight . acteristics, basic obligations).
1.5. Modes of Instruction	Lectures Seminars and workshops Exercises E-learning Field work	☑ Practical work☐ Multimedia and Network☐ Laboratory☐ Mentorship☐ Presentation
1.6. Comments		
1.7. Student Obligation	ons	
Class attendance. Practical work (Power The colloquiums. Final exam.	r Point presentation).	
1.8. Assessment ¹ of L	earning Outcomes	

1.9. Assessment of Learning Outcomes and Examples of Evaluation during Classes and on the Final Exam

70 % in class and 30% on the final exam (according to the Ordinance on Studies of the University of Rijeka and the Ordinance on Studies of the Faculty of Maritime Studies in Rijeka).

Continuous knowledge assessment:

3 colloquiums ((1. colloquium 15 points, 2. i 3. colloquiums 20 points).

Class participation

Continuous Assessment

Oral exam

Practical work/seminar paper (15 points).

1,5

1

Final exam.

Course

Project

Portfolio

attendance Written exam

The final exam (written exam) checks the integrity of knowledge and a minimum of 50% correct answers (15 points out of total 30 points) must be obtained.

- 1. Specify and compare the international and national legal sources governing charter parties.
- 2. Explain the difference between the terms of the shipowner and the disponent owner.
- 3. Describe the essential elements of the voyage charter party using a specific standard charter party form.
- 4. Describe what cargo information should be entered in the bill of lading.
- 5. Indicate period of time within the consignee may submit the complaint for the damage of goods.
- 6. Explain the role of insurance in maritime transport.

g

¹ NOTE: Name the proportion of ECTS credits for each activity so that the total number of ECTS credits is equal to the ECTS value of the course. Use empty fields for additional activities.

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Pavić, Drago, Pomorsko imovinsko pravo, Književni krug, Split, 2006.

1.11. Recommended Reading

- 1. Pomorski zakonik, pročišćeni tekst.
- 2. Pavić, Drago, Pomorsko osiguranje, Pravo i praksa, Split, 2012.
- 3. Pavić, Drago, Pomorsko pravo, Knjiga druga: Pravo pomorskih prijevoza, Split, 2002.
- 4. Pavić, Drago, Pomorsko pravo, Knjiga treća: Pomorske nezgode-pomorsko osiguranje, Split, 2000.
- 5. Grabovac, Ivo, Pomorsko pravo Republike Hrvatske, Split, 1997.
- 6. Grabovac, Ivo, Temelj odgovornosti u prometnom pravu, Književni krug, Split, 2000.

1.12. Number of Main Reading Examples

Title	Number of examples	Number of students
Pavić, Drago, Pomorsko imovinsko pravo, Književni krug, Split, 2006.	Enough: In the library and Faculty's bookshop	40

1.13. Quality Assurance

The quality of study is monitored in accordance with the ISO 9001 system and in accordance with European standards and guidelines for quality assurance carried out at the Faculty of Maritime Studies University of Rijeka. Once a year, the results of the transience are analyzed and appropriate measures are adopted.



1.7. Student Obligations

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3.2. Course description

	Generic information			
Head of Course	Assist.prof. Livia Maglić, phD; Assist. prof. Mark	Assist.prof. Livia Maglić, phD; Assist. prof. Marko Gulić, phD		
Course	Application of Algorithms in Transport Planning			
Study Programme	Technology and Organization of Transport			
Level	Bachelor	Bachelor		
Type of Course	Core	Core		
Year of Study	3rd			
Estimated Student	ECTS coefficient of Student Workload	4		
Workload and Methods of Instruction Number of Hours (L+E+S) 30+15				

1.	GENERAL COURSE DES	CRIPTION	
	1.1. Course Objectives		
	overview (identification	ne course is to gain knowledge of the algorit n) of transport planning problems that nee nm to optimally solve a specific transport pro	ed to be optimally solved, and identifying
	1.2. Prerequisites for C	ourse Registration	
	None.		
	1.3. Expected Learning	Outcomes	
	1. Define basic terms ab 2. Identify and explain m 3. Design a flowchart for 4. Explain the principle of 5. Identify and analyze proprimization algorithms 6. Propose an appropria	students will be able to do the following: bout the algorithm and its creation nethods for solving transport problems or resolving a specific transport problem of operation of a particular algorithm for sol part of the process in a specific transport pro the optimization algorithm that will be used as of the optimization algorithm to resolve a	to solve a specific transport problem
	1.4. Course Outline		
	Optimization problems conceptual definition or	ems in transport planning. Methods for in transport planning. Optimization problef the algorithm. Symbols in flowchart designed algorithm. Algorithms for solving solv	ems at the container stacking area. The n. Pseudocode. Adaptation of data to the
	1.5. Modes of Instruction	Lectures Seminars and workshops Exercises E-learning Field work	Practical work Multimedia and Network Laboratory Mentorship Other
	1.6. Comments		



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- 1. Taking two collquium
- 2. Project assignment
- 3. Final exam

1.8. Assessment¹ of Learning Outcomes

Course attendance	1,5	Class participation		Seminar paper	Experiment	
Written exam		Oral exam	1,0	Essay	Research	
Project	0,5	Continuous Assessment	1,0	Presentation	Practical work	
Portfolio						

1.9. Assessment of Learning Outcomes and Examples of Evaluation during Classes and on the Final Exam

The procedure for evaluating the acquired learning outcomes is carried out according to the Regulations on Studies of the University of Rijeka and the Rulebook on Studies at the Faculty of Maritime Studies in Rijeka as follows:

- 70% of the acquired learning outcomes are evaluated through continuous knowledge assessment during the teaching process: through the 1st colloquium learning outcomes 1-3 (25%), 2nd colloquium 4-7 (25%), project work learning outcomes 1-7 (20%);
- 30% of the acquired learning outcomes (1-7) are evaluated at the final part of the exam, with a minimum of 50% of available points necessary for passing the final exam.

Examples of evaluating learning outcomes respecting set learning outcomes are:

- 1. Explain the working principle of the African bison optimization algorithm
- 3. Analyze container stacking problem at the port terminal and identify a process that could be optimized
- 4. Propose a fitting optimization algorithm for solving a specific transport problem
- 5. Suggest algorithm parameters to successfully resolve a specific transport problem
- 6. Design the algorithm for resolve travel salesman problem
- 7. Design sensitivity analysis for a particular algorithm

1.10. Main Reading

- Manger, R., Marušić, M., Strukture podataka i algoritmi, Zagreb, 2003.
- Manger, R., Strukture podataka i algoritmi, Zagreb, 2014.
- Course presentations available on the e-learning system Merlin

1.11. Recommended Reading

• Knuth, D. E: "The Art of Computer Programming, Vol. 1, 3 Addison-Wesley, 1997.

1.12. Number of Main Reading Examples

Title	Number of examples	Number of students
Manger, R., Marušić, M., Strukture podataka i algoritmi, Zagreb,	1	40
2003.		
Manger, R., Strukture podataka i algoritmi, Zagreb, 2014.	1	40

1.13. Quality Assurance

The quality of study is continuously observed under the ISO 9001 system and following European standards and guidelines for quality assurance implemented at the Faculty of Maritime Studies, University of Rijeka. An analysis of the exams is given annually, and a survey among students is conducted by the semester.

¹ **NOTE:** Name the proportion of ECTS credits for each activity so that the total number of ECTS credits is equal to the ECTS value of the course. Use empty fields for additional activities he course. Use empty fields for additional activities.



1.7. Student Obligations

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3.2. Course description

Generic information				
Head of Course	Assist. prof. Livia Maglić, phl	ssist. prof. Livia Maglić, phD		
Course	Professional Practice	Professional Practice		
Study Programme	Technology and Organizatio	Technology and Organization of Transport		
Level	Undergraduate	Undergraduate		
Type of Course	Elective			
Year of Study	3rd			
Estimated Student	ECTS coefficient of Student \	ECTS coefficient of Student Workload		
Workload and Methods of Instruction	Number of Hours (L+E+S)		0+90+0	

 GENERAL COURSE DES 	CRIPTION	
1.1. Course Objectives		
engineering, technolog		e acquired theoretical knowledge in the field of rming professional tasks in maritime and inland or future work.
1.2. Prerequisites for C	Course Registration	
	·	e study program by a special Decision of each are qualified for enrollment is drawn up.
1.3. Expected Learning	g Outcomes	
practice. 2. Explain and analyze the company/institution 3. Correlate theoretical 4. Adapt to the work en	work processes and activities and jole where the student practice was performed knowledge and practical skills to worle vironment. dependently perform a specific profes	
1.4. Course Outline		
private sectors where to of traffic. As part of the	here are jobs related to the content of traineeship, the student becomes ac with the task of checking and upda	ne and transport companies in the public and if the curriculum of technology and organization quainted with the appropriate jobs for which he ating his / her professional knowledge, with a
1.5. Modes of Instruction	Lectures Seminars and workshops Exercises E-learning Field work	Practical work Multimedia and Network Laboratory Mentorship Other
1.6. Comments		



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The student performs a professional practice with an employer who, as part of his or her core activity, performs professional tasks that are consistent with the professional profile of his or her studies.

- Attending a practice with an employer
- Keeping a Log of Professional Practice
- Designing a project assignment

1.8. Assessment¹ of Learning Outcomes

Course attendance		Class participation	Seminar paper	Experiment	
Written exam		Oral exam	Essay	Research	
Project	2,0	Continuous Assessment	Presentation	Practical work	2,0
Portfolio					

1.9. Assessment of Learning Outcomes and Examples of Evaluation during Classes and on the Final Exam

Based on the assessment of practice logs, project assignment and success in the practice by a mentor at the institution where the student took the practical work, head of the course concludes the student's success in achieving the defined learning outcomes and defines the final grade of the course.

1.11. Recommended Reading

1.12. Number of Main Reading Examples

Title	Number of examples	Number of students

1.13. Quality Assurance

The quality of study is continuously observed under the ISO 9001 system and following European standards and guidelines for quality assurance implemented at the Faculty of Maritime Studies, University of Rijeka. An analysis of the exams is given annually, and a survey among students is conducted by the semester.

¹ NOTE: Name the proportion of ECTS credits for each activity so that the total number of ECTS credits is equal to the ECTS value of the course. Use empty fields for additional activities he course. Use empty fields for additional activities.



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3.2. Course Description

	Generic information			
Head of Course	lgor Vio, PhD			
Course	Transport Insurance			
Study Programme	Technology and Organization of Transport			
Level	Undergraduate degree programme			
Type of Course	Elective			
Year of Study	3			
Estimated Student	ECTS Coefficient of Student Workload	4		
Workload and Methods of Instruction	Number of Hours (L+E+S)	45 + 0 + 0		

1. GENERAL COURSE DESCRIPTION

1.1. Course Objectives

Students should become familiar with international and national legal framework regulating transport insurance and gain knowledge on insurance contract features, essential elements and claim types. During this course, the emphasis is on understanding of terms and conditions concerning particular transport insurance types including modalities of insurance in maritime, air, road and railway transport. Course objectives are also to expose international trade insurance scope and modalities, and to display the functioning, significance and types of reinsurance and co-insurance contracts.

1.2. Prerequisites for Course Registration

none

1.3. Expected Learning Outcomes

- 1. To indicate and interpret the basic concepts of transport insurance
- 2. To specify and compare international and national legal sources of transport insurance, taking into account the specific circumstances of maritime, air and land transport
- 3. To explain and compare the characteristics and elements of individual types of transport insurance contracts, and list and differentiate various types of insurance policy and other documents
- 4. To interpret the significance, characteristics and impact of the Institute Cargo Clauses for the insurance of goods in domestic and international transport
- 5. To enumerate and analyse the features of the Institute Hulls Clauses, and compare the conditions for insurance of boats and yachts
- 6. To describe and interpret the structure, activities and functions of insurance companies and P&I clubs
- 7. To specify and describe the conditions for insurance in land (road and railway) and air transport
- 8. To compare and describe procedures for obtaining evidence, drafting documents and reporting damage claims to the insurer
- 9. To explain the concepts of co-insurance and reinsurance and describe their application

1.4. Course Outline

Transport insurance basic features, insurance contract features, insurance contract documents, transport insurance contract elements, claim types, insurance management, insurance of goods in the national and international transport, marine hull and machinery insurance, P&I insurance, small craft and yacht insurance, foreign trade insurance, credit insurance, coinsurance and reinsurance.



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			 Lectures		Practical work			
1.5. Modes of Instruction		Seminars and workshops		☐ Multimedia and Network				
		Exercise	es		Lab	orator	/	
•		E-learning		Mentorship				
		Field work		Other				
1.6. Comments								
Obliga	ations							
 a) Students' main obligations are active course attendance with the preparation and presentation of seminar paper and they are required to pass three tests as continuous assessment during the term. b) As a prerequisite for the final exam, students must score at least 35 out of a possible 70 points (50%) during the classes. c) Students must score at least 15 out of a possible 30 points on final exams (50%). 								
nent¹oj	f Learning (Dutcomes						
1,5	Class part	icipation		Seminar paper		0,5	Experiment	
1,0	Oral exan	า		Essay			Research	
			1,0 Presentation				Practical work	
nent of	Learning C	outcomes and	d Exam	ples of Evaluation (during Cl	asses a	ınd on the Final E	xam
mples efine t ational and la ypes of ribe typ iscuss ecific c scribe ccordi organi ist the	of evaluation he basic co and nation nd transport in the import argo clause the most iring to the resultant of I most import and the most import argo chause the most ir ng to the resultant of I most import	ng learning of ncepts and pallegal source rt insurance corance policy ance of the es in domestimportant featisks covered P&I clubs, expression to the fortant club furtant clu	outcomprincip ces of t ntracts and ot Institu ic and tures of , and of xplain unction	les during classes a les of transport ins ransport insurance s and compare their her relevant docun te Cargo Clauses, a international marit of the Institute Hull elaborate the spec their importance	nd on the urance and explored and in particular sections of the control of the co	e final ain the eristics articula d and a s, then ance to	exam: eir specific solution and elements, and or elaborate on the same of the terres erms for boats and urance of shipping	ns nd he ms nd
	nts Obligation obligation of the isite for es. st score in ent of the isite of the	ain obligations are ind they are requisite for the final dess. It is stated to the final of the	Semina Semina Exercise E-learn Field we note Field we note Field we note Field we note Field we note Field we note Field we note Field we note Field we note Field we note Field we note Field we note Field we note Field we note Field we note Field we note Field we note Field we note Field we note Field we note Field we note Field we note Field we note Field we note Field we note Field we note Field we note Field we note Field we note Field we note Field we note Field we note Field we note Field we note Field we note Field we note Field we note Field we note Field we note Field we note Field we note Field we note Field we note Field we note Fie	Seminars and Seminars and Exercises E-learning Field work Ints Cobligations Interest Intere	Seminars and workshops Seminars and workshops Exercises E-learning Field work Seminars and workshops Exercises E-learning Field work Seminars and workshops Seminars and workshops Seminars and workshops Seminars and score at least 35 Seminar paper Seminar paper	Seminars and workshops Mul Exercises Lab E-learning Men Field work Oth Ints Field work Oth Ints Field work Oth Field work Oth Ints Field work Oth Ints Field work Oth Ints Field work Oth Ints Obligations Oth Ints Obligations Oth Ints Oth	Seminars and workshops Multimedical Multimedi	Seminars and workshops Multimedia and Network Exercises Laboratory E-learning Mentorship Field work Other Other Other Ints Other Other

9. Explain the concepts and types of co-insurance and reinsurance, describe their characteristics and

collecting documents and demonstrate modalities of reporting damage claims to the insurer

elaborate their application.

¹ **NOTE:** Name the proportion of ECTS credits for each activity so that the total number of ECTS credits is equal to the ECTS value of the course. Use empty fields for additional activities.





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1.10. Main Reading

Drago Pavić: Pomorsko osiguranje – pravo i praksa, s osnovama kopnenoga i zračnog transportnog osiguranja, Književni krug, Split, 2012.

Ivan Frančišković: Sustav transportnih osiguranja, Croatia osiguranje d.d., Zagreb, 1994. Ivan Frančišković: Međunarodna osiguranja, predavanja na mrežnim stranicama Fakulteta.

1.11. Recommended Reading

Ivan Frančišković: Ekonomika međunarodnih osiguranja, Ekonomski fakultet Rijeka, 2005.

Drago Pavić, Pomorsko imovinsko pravo, Književni krug, Split, 2006.

Drago Pavić: Pomorsko pravo, knjiga III – Pomorske nezgode i pomorsko osiguranje, Visoka pomorska škola, Split, 2000.

Pomorski zakonik, Narodne novine br. 181/04. (s kasnijim izmjenama i dopunama)

Zakon o pomorskom dobru i morskim lukama, N.N. 158/03. (s kasnijim izmjenama i dopunama)

1.12. Number of Main Reading Examples

Title	Number of examples	Number of students
Pomorsko osiguranje – pravo i praksa, s osnovama kopnenoga i zračnog transportnog osiguranja	Sufficient (in library and book shop)	2
Sustav transportnih osiguranja	Sufficient (in library and book shop)	2
Međunarodna osiguranja	Available on the website (pfri.uniri.hr)	2

1.13. Quality Assurance

Quality assurance of the course performance is continuously monitored according to ISO 9001 system applied at the University of Rijeka Faculty of Maritime Studies. An analysis of results of the final exams and a student survey are conducted and appropriate measures are adopted for each academic year.