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3.2. Course description

Generic information			
Head of Course	Dr.sc. Biserka Draščić Ban mr.sc. Ivoslav Ban		
Course	Mathematics I		
Study Programme	Logistics and Management in Maritime and Transport		
Level	Undergraduate degree programme		
Type of Course	obliged		
Year of Study	1.		
Estimated Student Workload and Methods of Instruction	ECTS coefficient of Student Workload		6
	Number of Hours (L+E+S)		45 +30 + 0

1. GENERAL COURSE DESCRIPTION

1.1. Course Objectives

The objective of the course is to master selected mathematics topics necessary for understanding, monitoring and application in maritime transport, new technologies, and to follow the subject of the profession which require knowledge in the selected fields of mathematics.

1.2. Prerequisites for Course Registration

None

1.3. Expected Learning Outcomes

Students will be able to, after passing the exam,
1. Know and understand the contents of the selected chapters in the basics of algebra and mathematical analysis.
2. Solve mathematics, physics, logistics, and subject matters that require the application of mathematical methods adopted.
3. Use parts of software packages to solve numerical problems

1.4. Course Outline

Functions of a single real variable. Domain, limes, and continuity of function. Derivatives and derivation rules. Differential. L'Hospital's justice. Application of differential calculus to function flow testing.
Indefinite integral, table integrals. Integration methods. Integrals of rational, trigonometric and irrational functions. A certain integral.
Newton-Leibniz formula. Application of integrals. Incorrect integrals.
Numerical integration. Basic ordinary differential equations. Functions of multiple variables: basic concepts, partial derivatives, extremes.
Total differential. Rows of numbers and functions. Taylor's turn

1.5. Modes of Instruction		
	X Lectures	X Practical work
	☐ Seminars and workshops	☐ Multimedia and Network
	x Exercises	☐ Laboratory
	☐ E-learning	☐ Mentorship
	☐ Field work	☐ Other _____

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1.6. Comments	None

1.7. Student Obligations

The student is required to attend at least 70% of classes.

1.8. Assessment[1] of Learning Outcomes

Course attendance	2.5	Class participation		Seminar paper		Experiment	
Written exam		Oral exam		Essay		Research	
Project		Continuous Assessment	2	Presentation		Practical work	
Portfolio		Final exam	1.5				

[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 (two midterms 30% and class attendance 10%), 30% in the final exam; according to the Regulations on Studies of the University of Rijeka and the Regulations on Studying at the Faculty of Maritime Studies in Rijeka

1.10. Main Reading

1. Group of authors, Mathematics I, Faculty of Maritime Studies Rijeka, 1993.
2. Group of authors, Mathematics II, Faculty of Maritime Studies Rijeka, 1993.
3.Demidovič, Tasks and solved examples in mathematical analysis for technical faculties, Danjar, doo, Zagreb 1995.

1.11. Recommended Reading

1. Svetozar Kurepa, Mathematical analisis II, Tehnical book, Zagreb 1970.
2.Skenderović, J., Matejčić-Ružička, V., Computer exercises, Faculty of Maritime Studies, Rijeka 2000.

1.12. Number of Main Reading Examples

Title	*Number of examples*	*Number of students*
Group of Authors, Mathematics I	Library 10 Scripting Room 50	75
Group of Authors, Mathematics II	Library 10 Scripting Room 50	75
Demidovich Technical colleges	Library 5	75

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. Ana Perić Hadžić	
Course	Economics fundamentals	
Study Programme	Logistics and Management in Maritime Industry and Transport	
Level	undergraduate	
Type of Course	core	
Year of Study	1st	
Estimated Student Workload and Methods of Instruction	ECTS coefficient of Student Workload	5
	Number of Hours (L+E+S)	30 + 15 + 0

1. GENERAL COURSE DESCRIPTION

1.1. Course Objectives

The basic objective of the course is to acquaint students with the basic economic laws. In line with the primary objective, the course aims to analyze in detail the basic concepts of micro and macro economics, elements of supply and demand in the market, emerging market patterns and business results in order to prepare students for upcoming courses in the wider social field.

1.2. Prerequisites for Course Registration

None

1.3. Expected Learning Outcomes

After completing the course, the student should know:

1. Describe and explain basic economic phenomena
2. Define and interpret basic economic resources
3. Explain the fundamental problems of economic organization
4. Break down the basic elements of supply and demand for goods and services in the market and analyze the variables affecting supply and demand in the market
5. To sort the different market forms (perfect and imperfect competition) and describe how they work
6. Break down basic cost categories and cost structures
7. Analyze the financial result in terms of income and operating expenses

1.4. Course Outline

- Introduction to micro and macro economics, basic concepts of micro and macro economics
- Historical development of economic thought
- Basic economic resources: land, labor, capital (and information)
- Basic problems of economic organization (what, why, for whom to produce)
- Basic supply and demand elements in the market / Substitution effect and income effect / Elasticity of goods
- Markets and the state in the modern economy
- Marketplace - Competition (perfect and imperfect competition)

- Choice and Theory of Utility / Theory of Expected Choice
- Cost analysis / Total average and marginal product / Utility and marginal cost
- Cost and income analysis, profit and loss, business coverage, optimal volume of business

1.5. Modes of Instruction	X Letures ☐ Seminars and workshops X Exercises ☐ E-learning ☐ Field work	☐ Practical work ☐ Multimedia and Network ☐ Laboratory ☐ Mentorship ☐ Other _____
1.6. Comments		

1.7. Student Obligations

The student must attend at least 70% of the total hours of lectures and exercises, and must have passed the exams (continuous assessment) to take the final exam.

1.8. Assessment[1] of Learning Outcomes

Course attendance	1,5	Class participation	0,5	Seminar paper		Experiment	
Written exam	1	Oral exam	1	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 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. Define the concept of economics, micro and macroeconomics.
2. Define and explain basic economic resources
3. List the fundamental problems of an economic organization
4. Explain market demand as an economic phenomenon, clarify which variables affect market demand
5. What market patterns do you recognize and explain the impact on pricing depending on the structure of the market
6. Calculate for example fixed, variable, total and marginal costs
7. Analyze the financial result in terms of revenue and operating costs, and define the point of business coverage and the optimum level of production.

7.1. Main Reading

1. Paul A. Samuelson & William D. Nordhaus, Economics, McGraw-Hill/Irwin; 18 edition, New York, 2011.

7.2. Recommended Reading

1. Jovanović, M.: Kapitalizam iznutra, Pravni fakultet Sveučilišta u Rijeci, Rijeka, 1999.
2. Zelenika, R.: Načela ekonomije i ekonomike, Ekonomski fakultet, IQ PLUS, 2008
3. Benić, Đ.: Osnove ekonomije, Zagreb, Školska knjiga, 1993

[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.

4. Dragičević, A.: Ekonomski leksikon, Informator, Zagreb, 1991.

7.3. Number of Main Reading Examples

Title	*Number of examples*	*Number of students*
Paul A. Samuelson & William D. Nordhaus, Economics, McGraw-Hill/Irwin; 18 edition, New York, 2011	2	70
Jovanović, M.: Kapitalizam iznutra, Pravni fakultet Sveučilišta u Rijeci, Rijeka, 1999.	2	70
Benić, Đ.: Osnove ekonomije, Zagreb, Školska knjiga, 1993	1	70
Zelenika, R.: Načela ekonomije i ekonomike, Ekonomski fakultet, IQ PLUS, 2008	2	70
Dragičević, A.: Ekonomski leksikon, Informator, Zagreb, 1991.	1	70

7.4. 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	**Associate Professor Edvard Tijan, PhD**	
Course	**Basics of logistics**	
Study Programme	**Logistics and Management in Maritime Industry and Transport**	
Level	undergraduate	
Type of Course	core	
Year of Study	1st	I
Estimated Student Workload and Methods of Instruction	ECTS coefficient of Student Workload	4
	Number of Hours (L+E+S)	30 + 0 + 0

1. GENERAL COURSE DESCRIPTION

1.1. Course Objectives

The main goal and task of the course is to acquaint students with the field of LOGISTICS. Students need to adopt the basic characteristics of logistics - a holistic, integrated view of all the activities it covers. In addition to the basic concepts of procurement, inventory management, transportation management, warehouse management and distribution, students are trained to integrate these activities in order to increase the efficiency of the business system. After completing the course students will be familiar with the differences and characteristics of transport systems including maritime, air, rail, road and intermodal traffic.

1.2. Prerequisites for Course Registration

None

1.3. Expected Learning Outcomes

After completing the course, the student should know:

1. Define and interpret the basic concepts of logistics
2. Describe the features of logistics and its components
3. Distinguish components and explain trends in logistics and supply chain development.
4. Explain the importance and impact of particular phenomena (globalization, computerization,…) on the development of logistics processes
5. Describe logistics as a function of system integration

1.4. Course Outline

1. Logistics,
2. Economic impact of logistics,
3. Supply chain,
4. Inventory management,
5. Warehousing,
6. Design of distribution systems,
7. Overview of the transport system,
8. Maritime transport,
9. Air, rail and road transport,

10. Intermodal transport,
11. Location and layout of logistics facilities,
12. Smart City Logistics,
13. Logistics of service activities,
14. Green logistics,
15. Logistics as a function of system integration,

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

1.7. Student Obligations

1. **Class attendance**
2. **Activity during class**
3. **Activity on the e-learning platform (Merlin)**
4. **Taking and passing the mid-term exams**
5. **Weekly knowledge assessment through e-learning systems**
6. **Passing the final exam**

1.8. Assessment[1] of Learning Outcomes

Course attendance	1	Class participation		Seminar paper		Experiment	
Written exam	1	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

Evaluation includes:

1. Knowledge assessments
2. Online knowledge checking on the e-learning platform during classes,
3. Passing the final exam

Examples of evaluating learning outcomes:

1. Explain the basic concepts of logistics
2. Understand the features of logistics and its components
3. Explain the impact of globalization on logistics development
4. Understand how logistics integrates systems
5. Break down logistics into components and analyze development trends

1.10. Main Reading

1. Čišić, D., *Basics of logistics*, online lectures
2. Bloomberg, D. J., LeMay, S. B., Hanna, J. B., *Logistics*, Prentice Hall; 1st edition, New Jersey, 2001
3. Ballou, R. H., *Business logistics: Supply chain management*, Prentice Hall; 5 edition, New Jersey, 2003

[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.

1.11. Recommended Reading

1. Waters, D., *Supply chain management: An Introduction to Supply Chain Management*, Red Globe Press; 2nd edition, London, 2009
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*
Bloomberg, D. J., LeMay, S. B., Hanna, J. B., *Logistics*, Prentice Hall; 1st edition, New Jersey, 2001	20	70

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	**Full Professor Tanja Poletan Jugović, Ph.D.**		
Course	**Trade routes**		
Study Programme	Logistics and Management in Maritime Industry and Transport		
Level	Undergraduate/Bachelor		
Type of Course	Compulsory		
Year of Study	1		
Estimated Student Workload and Methods of Instruction	ECTS coefficient of Student Workload		5
	Number of Hours (L+E+S)		30+15+0

1. GENERAL COURSE DESCRIPTION

1.1. Course Objectives

The main objectives of the course are to acquire knowledge of the basic elements, principles and geo-transport, 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….)

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1.4. Course Outline

Relevant theoretical elements and determinants of the formation and distribution of trade routes. Geo-transport 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.

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

Seminar paper, seminar presentation, 1st colloquium, 2nd colloquium, the final exam.

1.8. Assessment[1] of Learning 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 in relation to the learning outcomes are:

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

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

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3.2. Course description

Generic information		
Head of Course	Srđan Žuškin, PhD	
Course	Ship design and construction	
Study Programme	Logistics and management in maritime industry and transport	
Level	Undergraduate degree programme	
Type of Course	Mandatory	
Year of Study	1st	
Estimated Student Workload and Methods of Instruction	ECTS coefficient of Student Workload	5
	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.

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.

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

Active attendance of classes over 70 %. Longitudinal and transversal ship drawing – student task. Passed two written exams. Final oral exams.

1.8. Assessment[1] of Learning Outcomes

Course attendance	3	Class participation		Seminar paper		Experiment	
Written exam		Oral exam	1	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

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- 10) 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. Žuškin, S., teaching materials from the course *Ship design and construction* on the teacher's personal web site (MERLIN) of the Faculty of Maritime Studies in Rijeka
2. Komadina, P., Brodovi multimodalne prijevozne tehnologije, Pomorski fakultet u Rijeci, Rijeka, 2001.
3. Komadina, P., Ro-Ro brodovi, Pomorski fakultet u Rijeci, Rijeka, 2001.
4. Komadina, P., Tankeri, Pomorski fakultet u Rijeci, Rijeka, 1994.

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	80
Ro-Ro brodovi	10	
Tankeri	10	

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.**	
Course	**Physical education 1**	
Study Programme	**Logistic and Management in Maritime Industry and Transport**	
Level	**UNDERGRADUATE DEGREE PROGRAMME**	
Type of Course	core	
Year of Study	1st	
Estimated Student Workload and Methods of Instruction	ECTS coefficient of Student Workload	**1**
	Number of Hours (L+E+S)	**0+30+0 (0+2+0)**

1. GENERAL COURSE DESCRIPTION

1.1. Course Objectives

Physical and health culture is an educational area of reconciling biopsychosocial motives for movement as an expression of meeting certain human needs, which enhance adaptive and creative abilities in contemporary living and working conditions.

The realization of the physical and health education area requires the achievement of general and specific tasks. It is necessary to achieve knowledge about the factors causing diseases and injuries, to develop proper attitudes towards health and illness, and to take measures to protect and promote health. The adoption of a specific motor information fund is necessary for the efficient addressing of the needs for the preservation and development of health, the more meaningful use of leisure time and the solution of daily motor tasks. Well-prepared, organized and guided physical and health education is a prerequisite for achieving goals and objectives. The contents of physical exercise and sports develop functional, morphological, motor, conative and cognitive characteristics of the organism and aim to acquire motor knowledge, skills, habits, preserve and improve the health and psychological stability of individuals.

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. Improve the acquisition of general and specific motor skills, knowledge, skills and habits
2. Apply, use preserving and promoting health
3. Support the safeguarding and enhancement of the psychological stability of the individual as a prerequisite for the health of seafarers on board
4. Actively participate in developing more meaningful use of leisure time
5. Evaluate and develop solving everyday motor tasks
6. To choose the possibility of solving motor tasks in urgent situations

7. Perform the creation of humane interpersonal relationships on which the health of the individual and society as a whole depends
8. Improve knowledge of the factors that cause injury and illness
9. Develop the ability to create by motor expression according to the individual characteristics of gifted individuals.

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 yoga. Development of an individual's creative abilities in sports expression in an individual sport discipline with recreational influence.

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	Seminar paper is written by part-time students.	

1.7. Student Obligations

Active class attendance and activity in at least 70% of classes.

1.8. Assessment[1] of Learning Outcomes

Course attendance	0,5	Class participation	0,5	Seminar paper		Experiment	
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

Active class attendance and activity in at least 70% of classes.

1.10. Main Reading

1.11. Recommended Reading

1. Findak V.: Metodika tjelesne i zdravstvene kulture, Školska knjiga Zagreb, 1999.
2. Volčanšek B.: Sportsko plivanje, Sveučilište u Zagrebu, Fakultet za fizičku kulturu, Zagreb, 1996.
3. Volčanšek B.: Bit plivanja , Kineziološki fakultet Sveučilišta u Zagrebu, Zagreb, 2002
4. Anderson B.: Stretching, Vježbe istezanja za svakodnevni fitness: trčanje, plivanje, tenis, biciklizam, skijanje, košarka, nogomet i ostale sportove, Gopal, d.o.o., Zagreb, 1997.
5. Anderson B., Burke E., Pearl B.: Fitnes za sve, Gopal, d.o.o., Zagreb, 19997.
6. Janković V. , N. Marelić.: Odbojka, Fakultet za fizičku kulturu Sveučilišta u Zagrebu, Zagreb 1995.
7. Kosinac, Z.: Kineziterapija, tjelesno vježbanje i sport kod djece i omladine oštećena zdravlja, Split, 198

[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.

8. Šnajder V., D. Milanović : Atletika, hodanja , trčanja, Fakultet za fizičku kulturu Sveučilišta u Zagrebu, Zagreb, 1991.
9. Gabrijelić M.: Škola nogometa I, Sportska štampa, Zagreb, 1965.
10. Matković B., S. Ferenčak, M. Žvan : Skijajmo zajedno, Zagreb, 2004.

1.12. Number of Main Reading (Examples)

Title	*Number of examples*	*Number of students*
		81

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. Each class is closely monitored for each (none) arrival and activity of the student on a separate sheet Physical and Health Culture, where the results of longitudinal monitoring are in general and specific psychomotor abilities, knowledge and achievements and functional abilities. The College of Physical and Health Education is evaluated for a particular semester by enrolling in the ISVU system "PASSED".

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Table 2.

3.2. Course description

Generic information			
Head of Course	Assistant Professor Borna Debelić, PhD		
Course	Transport Economics		
Study Programme	Logistic and Management in Maritime Industry and Transport		
Level	Bachelor		
Type of Course	Mandatory		
Year of Study	1	Semester	2
Estimated Student Workload and Methods of Instruction	ECTS coefficient of Student Workload		5
	Number of Hours (L+E+S)		(30+15+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 branches 7. Understand the underlying concepts and interpret the approaches in transport policy
1.4. Course Outline
Transport system and economic development aspects. Importance of transport and traffic in economic systems. Elements of the transport system by horizontal and vertical division. Factors and processes of the economic functioning of the transport system. Economic and financial evaluation of the construction of transport infrastructure. Privatization, liberalization, globalization and deregulation in transport. Transport infrastructure objects and cost concepts. Externalities in transport. Co-operation of transport branches. Transport system and policy. Economics of road transport and transport system. Economics of rail transport and transport system. Economics of postal and telecommunication services and transport system. Economics of air traffic and transport system. Economics of maritime and river transport and transport system

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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

1. Attending classes
2. Actively participate in classes
3. Development of project task
4. Study, research and solving tasks
5. Colloquiums
6. Final exam

1.8. Assessment of Learning Outcomes

Course attendance	1,5	Class participation	0,5	Seminar paper		Experiment	
Written exam	1	Oral exam	1	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

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)

7.1. 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.

7.2. 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.

7.3. Number of Main Reading Examples

Title	*Number of examples*	*Number of students*
	web	

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7.4. Quality Assurance

Internal:

- **Student feedback (SET - Student evaluation of teaching) at the end of academic year.**
- **Course review by the head of course at the end of academic year.**

External:

Program quality review carried by the QA Agency.

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3.2. Course description

Generic information			
Head of Course	Dr.sc. Biserka Draščić Ban mr.sc. Ivoslav Ban		
Course	Financial mathematics		
Study Programme	Logistics and Management in Maritime and Transport		
Level	Undergraduate degree programme		
Type of Course	obliged		
Year of Study	1.		
Estimated Student Workload and Methods of Instruction	ECTS coefficient of Student Workload		5
	Number of Hours (L+E+S)		30 + 30 + 0

1. GENERAL COURSE DESCRIPTION

1.1. Course Objectives

The objective of the course is to master selected topics in linear algebra and financial mathematics required for maritime exchange, monitoring and application, and to pursue professional subjects requiring knowledge in selected areas of financial mathematics.

1.2. Prerequisites for Course Registration

None

1.3. Expected Learning Outcomes

Students will be able to, after passing the exam:
1.Know and understand the contents of selected chapters in algebra and financial mathematics mathematical methods.
2. To solve the tasks of logistics and subject matter that require the application of the adopted mathematical methods.
3.Use portions of software packages in solving numerical problems.

1.4. Course Outline

Matrices and operations with matrices. Determinants. Systems of linear algebraic equations. Models of general market equilibrium. Intersectoral (input-output) analysis. Application of differential calculus in economics. Marginal cost. Elasticity of function. Exemplary integral calculus in economics. Percentage account. Methods of calculating interest. Simple and complex interest account. Financial equivalence of capital. Continuous stuttering. Discrete capitalization (prenumerando and postnumerando amounts). Loans. Loan repayment plans.

1.5. Modes of Instruction	X Lectures ☐ Seminars and workshops x Exercises ☐ E-learning ☐ Field work	X Practical work ☐ Multimedia and Network ☐ Laboratory ☐ Mentorship ☐ Other _____

1.6. Comments	None

1.7. Student Obligations

The student is required to attend at least 70% of classes.

1.8. Assessment[1] of Learning Outcomes

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

[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 (two midterms 30% and class attendance 10%), 30% in the final exam; according to the Regulations on Studies of the University of Rijeka and the Regulations on Studying at the Faculty of Maritime Studies in Rijeka

1.10. Main Reading

1. Group of authors, Mathematics I, Faculty of Maritime Studies Rijeka, 1993.
2. Bosko Sego, Tomislav Sikic, Four Accounts for Economists, Business School "Baltazar Adam Krcelic" , 2003.
3. Authors' group, Collection of tasks (Sets of numbers, Matrices and determinants, Vector algebra), Faculty of Maritime Studies Rijeka, 1999

1.11. Recommended Reading

1.Skenderovic, J., Matejcic-Ruzicka, V., Computer Exercises, Faculty of Maritime Studies, Rijeka 2000.
2. Štambuk, Ljubica, Business Mathematics1, University of Applied Sciences in Karlovac, Karlovac 2006.

1.12. Number of Main Reading Examples

Title	*Number of examples*	*Number of students*
Group of Authors, Mathematics I	Library 10 Scripting Room 50	75
Bosko Sego, Tomislav Sikic, Four Accounts for Economists, Business School "Baltazar Adam Krcelic" , 2003.	Library 5	75
3. Authors' group, Collection of tasks (Sets of numbers, Matrices and determinants, Vector algebra), Faculty of Maritime Studies Rijeka, 1999	Library 10 Scripting Room 50	75

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	Prof. Dr. Bojan Hlača		
Course	Business Logistics		
Study Programme	Logistics and Management in Maritime and Transport		
Level	Undergraduate degree programme		
Type of Course	Obligatory		
Year of Study	1		
Estimated Student Workload and Methods of Instruction	ECTS coefficient of Student Workload		6
	Number of Hours (L+E+S)		30 + 15 +0

1. GENERAL COURSE DESCRIPTION

1.1. Course Objectives

The basic objective of the course is to acquaint students with the basic features of logistics and supply chain, logistics business systems and global supply chain.

1.2. Prerequisites for Course Registration

No

1.3. Expected Learning Outcomes

1. Explain the basic features of logistics and distribution.
2. Explain storage, inventory and transportation costs and total distribution costs
3. Describe the business of freight forwarders and multimodal transport operators
4. Explain logistics supply and demand
5. Explain the concept of logistics and supply chain
6. State the importance of the global supply chain in multimodal transport
7. Explain and describe the term "trade-off" in the global supply chain
8. Explain the global supply chain management model

1.4. Course Outline

Logistics and distribution. Supply chain. Storage and inventory costs. Total distribution costs. Logistics supply and demand. Freight Forwarder as operator of multimodal transport. Logistics chain. Global supply chain. Trade off in the global supply chain. Managing the global supply chain.

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 Obligations

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

1.8. Assessment[1] of Learning Outcomes

Course attendance	1,5	Class participation		Seminar paper	0,5	Experiment	
Written exam	2	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

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. List the processes of the logistics system?
2. Describe the movement of distribution costs in direct and indirect sales in relation to the number customers?
3. List the entities participating in the return distribution channels?
4. Describe how to determine the optimal number of warehouses?
5. What are the basic methods of business logistics and distribution?
6. Explain the main objective of management in transport companies?
7. List and explain logistics chains according to the degree of coverage of the market?
8. Explain ownership, information, financial and material (commodity) flows in logistics chains?
9. Describe an example of shipping and completing customs formalities at a global supply chain?
10. Describe and explain the management of the global supply chain and its benefits?

1.10. Main Reading

1. Hlača, B.: Poslovna logistika, Merlin, E-Learning System, Faculty of Maritime Studies, Rijeka, 2017
2. Hlača, B.: Poslovna logistika, Script of Authorized Lectures, Faculty of Maritime Studies, Rijeka, 2006.
3. Hlača, B .: Lučka logistika, University of Rijeka, Faculty of Maritime Studies Rijeka, Rijeka 2016.
4. Šamanović, J .: Logistički I distribucijski sustavi, University of Split, Faculty of Economics, Split, 1999;
5. Zelenika, R.: Prometni sustavi, Technology - Organization - Economics - Logistics - Management, Faculty of Economics Rijeka, Rijeka, 2001;
6. Zelenika R .: Upravljanje logističkim mrežama, Faculty of Economics Rijeka, Rijeka 2007.

1.11. Recommended Reading

1. BLOOMBERG, D.J., LE MAY S., HANNA, J.B .: Logistics, Mate: Zagreb School of Economics and Management, Zagreb, 2006.
2. BOUCHERY, Y., Hinterland Transportation and Container Supply Chain, London, 2014.
3. BRANCH, A.E. Global Supply Chain Management and International Logistics, Abingdon, Oxon, 2009.
4. COOPER, J., Logistics and Distribution Planning, London 1994.
5. RUSHTON-OXLEY, Handbook of Logistics and Distribution Management, London 1993.
6. 24. SEGETLIJA, Z., LAMZA-MARONIĆ, M .: Distribution system of a trading company: distribution-logistics-informatics, Faculty of Economics in Osijek, Osijek, 1995.
7. ŠAMANOVIĆ, J .: Sales, Distribution, Logistics: Theory and Practice, Faculty of Economics, University of Split, 2009.

1.12. Number of Main Reading Examples

Title	*Number of examples*	*Number of students*
Hlača, B.: Business Logistics, Merlin, E-Learning System, Faculty of Maritime Studies, Rijeka, 2017	Unlimited	70

1.13. Quality Assurance

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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 (an attachment to the faculty description). 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	Associate proffesor Biserka Draščić Ban, PhD		
Course	Statistics		
Study Programme	Logistics and Management in Maritime Industry and Transport		
Level	Undergraduate degree programme		
Type of Course	Mandatory		
Year of Study	first		
Estimated Student Workload and Methods of Instruction	ECTS coefficient of Student Workload	5	
	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

The meaning and the task of statistics. Graphical methods in data analysis. Relative numbers. Numerical data analysis. Random variables. Theoretical distribution functions. Chi-Square Test. Sampling method. Time series analysis. Correlation and regression.

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

Taking classes regularly and doing homework assignments.

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 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

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	Y	
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.
2) (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

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

1.12. Number of Main Reading Examples

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

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3.2. Course description

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

1. GENERAL COURSE DESCRIPTION

1.1. Course Objectives

Adopting knowledge about the structure and principle of computer operation as well as knowledge about using computers in word processing and drafting spreadsheets. Training students to solve problems with a computer by developing algorithms and implementing them on a computer, using program packages to develop programs.

1.2. Prerequisites for Course Registration

No

1.3. Expected Learning Outcomes

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

1. *Properly justify basic concepts of the structure and principle of operation of the computer*
2. *Describe different types of computer software support*
3. *Use the application program MS word for text processing*
4. *Use the application program MS Excel for spreadsheets*
5. *Write an algorithm in Just Basic programming language as a solution to a given problem*

1.4. Course Outline

Mathematical and logical basics of computer operation. Computer hardware. Input / output units. Computer working memory. Storage memory. Central processing unit. Software. System software support. Operating System (MS Windows). Software development (program development in Just Basic). Utilities. Application software. Word processor (MS Word). Spreadsheet program (MS Excel). Solving problems with computer. Algorithms and programs. Elements of algorithms. Describing algorithms. Algorithm commands in Just Basic programming language. Control structures of the algorithm and their description in Just Basic.

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

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%.*

1.8. Assessment[1] of Learning Outcomes

Course attendance	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.

1.12. Number of Main Reading Examples

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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	**Maja Redžić, mag.cin.**	
Course	**Physical education 2**	
Study Programme	**Logistic and Management in Maritime Industry and Transport**	
Level	**UNDERGRADUATE DEGREE PROGRAMME**	
Type of Course	core	
Year of Study	1st	
Estimated Student Workload and Methods of Instruction	ECTS coefficient of Student Workload	**1**
	Number of Hours (L+E+S)	**0+30+0 (0+2+0)**

1. GENERAL COURSE DESCRIPTION

1.1. Course Objectives

Physical and health culture is an educational area of reconciling biopsychosocial motives for movement as an expression of meeting certain human needs, which enhance adaptive and creative abilities in contemporary living and working conditions.

The realization of the physical and health education area requires the achievement of general and specific tasks. It is necessary to achieve knowledge about the factors causing diseases and injuries, to develop proper attitudes towards health and illness, and to take measures to protect and promote health. The adoption of a specific motor information fund is necessary for the efficient addressing of the needs for the preservation and development of health, the more meaningful use of leisure time and the solution of daily motor tasks. Well-prepared, organized and guided physical and health education is a prerequisite for achieving goals and objectives. The contents of physical exercise and sports develop functional, morphological, motor, conative and cognitive characteristics of the organism and aim to acquire motor knowledge, skills, habits, preserve and improve the health and psychological stability of individuals.

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. Improve the acquisition of general and specific motor skills, knowledge, skills and habits
2. Apply, use preserving and promoting health
3. Support the safeguarding and enhancement of the psychological stability of the individual as a prerequisite for the health of seafarers on board
4. Actively participate in developing more meaningful use of leisure time
5. Evaluate and develop solving everyday motor tasks
6. To choose the possibility of solving motor tasks in urgent situations

7. Perform the creation of humane interpersonal relationships on which the health of the individual and society as a whole depends
8. Improve knowledge of the factors that cause injury and illness
9. Develop the ability to create by motor expression according to the individual characteristics of gifted individuals.

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.

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	Seminar paper is written by part-time students.	

1.7. Student Obligations

Active class attendance and activity in at least 70% of classes.

1.8. Assessment[1] of Learning Outcomes

Course attendance	0,5	Class participation	0,5	Seminar paper		Experiment	
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

Active class attendance and activity in at least 70% of classes.

1.10. Main Reading

1.11. Recommended Reading

1. Findak V.: Metodika tjelesne i zdravstvene kulture, Školska knjiga Zagreb, 1999.
2. Volčanšek B.: Sportsko plivanje, Sveučilište u Zagrebu, Fakultet za fizičku kulturu, Zagreb, 1996.
3. Volčanšek B.: Bit plivanja , Kineziološki fakultet Sveučilišta u Zagrebu, Zagreb, 2002
4. Anderson B.: Stretching, Vježbe istezanja za svakodnevni fitness: trčanje, plivanje, tenis, biciklizam, skijanje, košarka, nogomet i ostale sportove, Gopal, d.o.o., Zagreb, 1997.
5. Anderson B., Burke E., Pearl B.: Fitnes za sve, Gopal, d.o.o., Zagreb, 19997.
6. Janković V. , N. Marelić.: Odbojka, Fakultet za fizičku kulturu Sveučilišta u Zagrebu, Zagreb 1995.
7. Kosinac, Z.: Kineziterapija, tjelesno vježbanje i sport kod djece i omladine oštećena zdravlja, Split, 198

[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.

8. Šnajder V., D. Milanović : Atletika, hodanja , trčanja, Fakultet za fizičku kulturu Sveučilišta u Zagrebu, Zagreb, 1991.
9. Gabrijelić M.: Škola nogometa I, Sportska štampa, Zagreb, 1965.
10. Matković B., S. Ferenčak, M. Žvan : Skijajmo zajedno, Zagreb, 2004.

1.12. Number of Main Reading (Examples)

Title	*Number of examples*	*Number of students*
		81

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. Each class is closely monitored for each (none) arrival and activity of the student on a separate sheet Physical and Health Culture, where the results of longitudinal monitoring are in general and specific psychomotor abilities, knowledge and achievements and functional abilities. The College of Physical and Health Education is evaluated for a particular semester by enrolling in the ISVU system "PASSED".

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3.2. Course description

Generic information			
Head of Course	Dr. sc. Alen Jugović, full professor		
Course	Shipping Economics		
Study Programme	Logistics and Management in Maritime Industry and Transport		
Level	Undergraduate		
Type of Course	Core		
Year of Study	2nd		
Estimated Student Workload and Methods of Instruction	ECTS coefficient of Student Workload		5
	Number of Hours (L+E+S)		30+15+0

1. 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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FORMATION OF FARES IN MARITIME SHIPPING. The concept and types of fares. Characteristics and formation of freight rates in certain types of shipping industry.

MARITIME TRANSPORT COSTS. Definition of costs. Types of costs in maritime shipping. Fixed and variable costs. Marginal cost. Total costs of a ship's voyage.

SHIPPING COSTS OPTIMIZATION.

PERFORMANCE INDICATORS IN MARITIME SHIPPING. Labor productivity. Business efficiency. Business profitability. Optimal size and speed of the ships in terms of cost-effectiveness.

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

Attending classes

Attending exercises

Classroom activity

Exams (continuous assessment) and tests

Final exam

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 maritime shipping.*
2. *Define economic and technological criteria that represent different types of maritime shipping in the context of passenger shipping, free shipping, liner shipping and tanker shipping*
3. *List and explain the basic principles of economy in maritime shipping*
4. *Explain which parameters are taken into account when calculating fares and how the defined transport conditions affect the calculation of the fare?*
5. *What are the factors in the maritime market that affect the quantity of supply and the quantity of demand for transport?*
6. *Explain how globalization affects the competitiveness of shipping 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.

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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 brodarstvu, Redak, Split, 2014.	20	
Kesić, B; Jugović, A.; Debelić, B.:Ekonomika brodarstva riješeni zadaci, Pomorski fakultet Sveučilišta u Rijeci, Rijeka, 2013.	10	
Stopford, M.: Maritime Economics, Routledge, London & New York, 2009.	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, PhD		
Course	Management		
Study Programme	Logistic and Management in Maritime Industry and Transport		
Level	Undergraduate degree programme		
Type of Course	Required		
Year of Study	2	III	
Estimated Student Workload and Methods of Instruction	ECTS coefficient of Student Workload		5
	Number of Hours (L+E+S)		2+1+0

1. GENERAL COURSE DESCRIPTION

1.1. Course Objectives

Introduction to relevant aspects of contemporary management theory. Bring the theoretical knowledge of modern management closer to the practical application in modern companies as well as economic and entrepreneurial practice.

1.2. Prerequisites for Course Registration

No additional prerequisites

1.3. Expected Learning Outcomes

1. Explain the elements and relationships in the business management system
2. Emphasize and explain the importance of ethics and social responsibility in modern management
3. List and interpret the basic determinants and planning process
4. Explain the organization as part of the management process
5. List and explain the approaches of motivation and the role of leadership in the development of business competitiveness
6. Describe and explain the principles and content of interpersonal relationship management
7. List and interpret methods and techniques of managerial control

1.4. Course Outline

Management: science, theory and practice; Company environment; Ethics and social responsibility of management; Basic planning determinants; Strategy and strategic planning; Decision making; Basics of organization; Forms of organizational structure; Planning, recruiting, selection and human resource development; Performance assessment and compensation management; Leadership; Motivation; Interpersonal processes; Basics of control; Control methods and techniques

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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

1. Attending classes
2. Actively participate in classes
3. Study, research and solving tasks
4. Colloquiums
5. Final exam

1.8. Assessment[1] of Learning Outcomes

Course attendance	1	Class participation	1	Seminar paper		Experiment	
Written exam	1	Oral exam	1	Essay		Research	
Project		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

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. List and discuss the elements and relationships in a business management system (Learning Outcome 1)
2. State and explain the importance of ethics and social responsibility in modern management (Learning Outcome 2)
3. Describe the basic determinants of planning and list the elements of the business planning process (Learning Outcome 3)
4. Describe and explain the organization as part of the management process (Learning Outcome 4)
5. List the approaches in motivation and explain the role of leadership in the development of business competitiveness (Learning Outcome 5)
6. Explain and describe the principles and content of interpersonal relationship management (Learning Outcome 6)
7. List the elements and explain the process of managerial control (Learning Outcome 7)

1.10. Main Reading

1. Buble, M. (2006). Osnove menadžmenta. Zagreb: Sinergija d.o.o.
2. Sikavica, P., Bahtjarević- Siber, F.,Vokić Pološki, N. (2008). Temelji menadžmenta. Zagreb: Školska knjiga.

1.11. Recommended Reading

1. Sikavica, P., Bahtijarević-Šiber, F. (2004). Menadžment. Zagreb: Masmedija d.o.o.
2. Buble M. (2000). Menadžment. Split: Ekonomski fakultet.
3. Nicholas, C. S. (1995). Menadžment malih poduzeća. Zagreb: Mate d.o.o.
4. Sikavica, P., Bahtijarević-Šiber, F. (2001). Leksikon menadžmenta. Zagreb: Masmedija d.o.o.

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	PhD Svjetlana Hess	
Course	Operations Research	
Study Programme	Logistic and Management in Maritime Industry and Transport	
Level	Undergraduate	
Type of Course	Mandatory	
Year of Study	2.	
Estimated Student Workload and Methods of Instruction	ECTS coefficient of Student Workload	6
	Number of Hours (L+E+S)	45+30+0

1. GENERAL COURSE DESCRIPTION

1.1. Course Objectives

Applying quantitative methods in business decision making. Adopting the knowledge and techniques of quantitative methods in transport and logistics. Monitoring of scientific field considering the emergence of new methods and their widespread application in everyday business activities. Identifying specific traffic problems, collecting data, choosing and setting up the adequate mathematical model and getting results (mainly using a software package). Comprehensive analysis of the results obtained that will result in application in a real business environment, in cases where quantification and optimization of transport and logistics services are required.

1.2. Prerequisites for Course Registration

-

1.3. Expected Learning Outcomes

1. To describe and interpret basic principles of operations research methods
2. To define a specific transport or logistic problem
3. To determine the criterion and appropriate method when making business decisions for transport problems
4. To collect data and set up a model for certain practical problems, also to determine the appropriate solving method and finding the optimal solution
5. To solve the real transport or logistic problem using methods learned during the class
6. To interpret the optimal solution or to conduct post-optimal analysis
7. To compare the results obtained and choose the optimal solution considering criteria and limitations set
8. To apply knowledge in practice

1.4. Course Outline

Application of quantitative methods in business decision making. Linear programming. Transportation problem. Assignment problems. Application of the above-mentioned methods in transport and logistics practical problems.

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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

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. Assessment[1] of Learning Outcomes

Course attendance	2.5	Class participation	0.5	Seminar paper		Experiment	
Written exam		Oral exam	1	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 (oral): checking the understanding of total acquired knowledge in the field of quantitative methods and their application to specific transport or logistic problem.

Valuation examples:

1. list and define each of the operations research methods studied
2. define an arbitrary transportation problem that can be solved using one of the quantitative methods
3. determine the appropriate criterion for the problem specified
4. 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
5. solve the problem by applying the appropriate method learned during class
6. interpret the solution ie. perform post-optimal analysis
7. compare the results obtained and choose the optimal solution considering criteria and limitations set
8. explain how the results obtained can be used in practice

1.10. Main Reading

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

1.11. Recommended Reading

1. Pašagić, H., Matematičke metode u prometu, Fakultet prometnih znanosti, Zagreb, 2003.
2. Babić, Z., Linearno programiranje, Ekonomski fakultet u Splitu, Split, 2010.
3. 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	70
Brajdić, I., Matematički modeli i metode poslovnog odlučivanja, Fakultet za menadžment u turizmu i ugostiteljstvu, Opatija, 2013.	5	70
Zenzerović, Z., Operacijska istraživanja, Zbirka zadataka, Fakultet za pomorstvo i saobraćaj, Rijeka, 1983.	5	70

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	**Full professor Tanja Poletan Jugović, Ph. D.** **Associate professor Siniša Vilke, Ph. D.**	
Course	**Cargoes in transport**	
Study Programme	Logistics and Management in Maritime Industry and Transport	
Type of Course	Compulsory	
Year of Study	2	
Estimated Student Workload and Methods of Instruction	ECTS coefficient of Student Workload	5
	Number of Hours (L+E+S)	45 + 15

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 (palletization, containerization, ...).
10. To describe and compare the rules, requirements, and specifics of packaging, packaging, and signage of particular types of cargo.

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1.4. 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 nomenclature of goods in transport, Goods identification and marking systems; Packaging and packaging of goods in transit; Basic material properties and testing; raw and non-metallic raw materials; General cargo; bulk cargo; Other important dry cargoes in traffic; Liquid cargo; Gas cargo; Perishable cargo; Heavy and oversized cargo; Hazardous Substances in Transport.

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

Seminar paper, seminar presentation, 1st colloquium, 2nd colloquium, the final exam.

1.8. Assessment[1] of Learning 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 groups.
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 hazardous 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	**Logistic and Management in Maritime Industry and Transport**	
Level	**UNDERGRADUATE DEGREE PROGRAMME**	
Type of Course	core	
Year of Study	2nd	
Estimated Student Workload and Methods of Instruction	ECTS coefficient of Student Workload	**1**
	Number of Hours (L+E+S)	**0+30+0 (0+2+0)**

1. GENERAL COURSE DESCRIPTION

1.1. Course Objectives

Physical and health culture is an educational area of reconciling biopsychosocial motives for movement as an expression of meeting certain human needs, which enhance adaptive and creative abilities in contemporary living and working conditions.

The realization of the physical and health education area requires the achievement of general and specific tasks. It is necessary to achieve knowledge about the factors causing diseases and injuries, to develop proper attitudes towards health and illness, and to take measures to protect and promote health. The adoption of a specific motor information fund is necessary for the efficient addressing of the needs for the preservation and development of health, the more meaningful use of leisure time and the solution of daily motor tasks. Well-prepared, organized and guided physical and health education is a prerequisite for achieving goals and objectives. The contents of physical exercise and sports develop functional, morphological, motor, conative and cognitive characteristics of the organism and aim to acquire motor knowledge, skills, habits, preserve and improve the health and psychological stability of individuals.

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. Select optional kinesiology activity
2. Improve the acquisition of general and specific motor skills, knowledge, skills and habits
3. Apply, use preserving and promoting health
4. Support the safeguarding and enhancement of the psychological stability of the individual as a prerequisite for the health of seafarers on the boat
5. Develop a more meaningful use of leisure time
6. Evaluate and develop day-to-day motor tasks

7. To choose the possibility of solving motor tasks in urgent situations
8. Perform the creation of humane interpersonal relationships that depend on the health of the individual and society as a whole
9. Improve knowledge of the factors that cause injury and illness
10. Develop the ability to create by motor expression according to the characteristics of the gifted individuals.

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.

1.5. Modes of Instruction	☐ Lectures ☐ Seminars and workshops X ☐ Exercises ☐ E-learning ☐ Field work	☐ Practical work ☐ Multimedia and Network ☐ Laboratory ☐ Mentorship ☐ Other _____
1.6. Comments	Seminar paper is written by part-time students.	

1.7. Student Obligations

Active class attendance and activity in at least 70% of classes.

1.8. Assessment[1] of Learning Outcomes

Course attendance	0,5	Class participation	0,5	Seminar paper		Experiment	
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

Active class attendance and activity in at least 70% of classes.

1.10. Main Reading

1.11. Recommended Reading

1. Findak V.: Metodika tjelesne i zdravstvene kulture, Školska knjiga Zagreb, 1999.
2. Volčanšek B.: Sportsko plivanje, Sveučilište u Zagrebu, Fakultet za fizičku kulturu, Zagreb, 1996.
3. Volčanšek B.: Bit plivanja , Kineziološki fakultet Sveučilišta u Zagrebu, Zagreb, 2002
4. Anderson B.: Stretching, Vježbe istezanja za svakodnevni fitness: trčanje, plivanje, tenis, biciklizam, skijanje, košarka, nogomet i ostale sportove, Gopal, d.o.o., Zagreb, 1997.
5. Anderson B., Burke E., Pearl B.: Fitnes za sve, Gopal, d.o.o., Zagreb, 19997.
6. Janković V. , N. Marelić.: Odbojka, Fakultet za fizičku kulturu Sveučilišta u Zagrebu, Zagreb 1995.
7. Kosinac, Z.: Kineziterapija, tjelesno vježbanje i sport kod djece i omladine oštećena zdravlja, Split, 198

[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.

8. Šnajder V., D. Milanović : Atletika, hodanja , trčanja, Fakultet za fizičku kulturu Sveučilišta u Zagrebu, Zagreb, 1991.
9. Gabrijelić M.: Škola nogometa I, Sportska štampa, Zagreb, 1965.
10. Matković B., S. Ferenčak, M. Žvan : Skijajmo zajedno, Zagreb, 2004.

1.12. Number of Main Reading (Examples)

Title	*Number of examples*	*Number of students*
		81

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. Each class is closely monitored for each (none) arrival and activity of the student on a separate sheet Physical and Health Culture, where the results of longitudinal monitoring are in general and specific psychomotor abilities, knowledge and achievements and functional abilities. The College of Physical and Health Education is evaluated for a particular semester by enrolling in the ISVU system "PASSED".

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Table 2

Course description

COURSE DESCRIPTION							
Course instructor	Axel Luttenberger, Ph.D., Full Professor						
Name of the course	Commercial and Transport Law						
Study programme	Undergraduate study Logistic and Management in Maritime Industry and Transport						
Status of the course	mandatory						
Year of study	2rd						
ECTS credits and manner of instruction	ECTS credits	5 ECTS					
	Number of class hours (L+E+S)	45+0+0					
1. Course objectives							
Training the students for acquiring requisite knowledge concerning the theory of state and law, property law evaluation for acquiring indispensable knowledge and competence in contracting procedures, as well as legal analysis of some kinds of contracts, with the overview of effects of contractual and non-contractual obligations from legal side.							
2. Course enrolment requirements							
None							
3. Expected learning outcomes							
Following certain learning period, students will be capable to analyse the basics of property rights, to interpret a legal framework of a particular company, evaluate and compare specific contracts, and to distinguish contractual from non-contractual obligations. Transport law.							
4. Course content							
Introduction to law. Property rights (ownership, possession). General provisions of Company Act and types of companies. General provisions of civil law and specific contracts, with special emphasis on contractual and non-contractual obligations in tourism and hospitality industry. Transport law.							
5. Manner of instruction	☐ x lectures ☐ x seminars and workshops ☐ exercises ☐ distance learning ☐ fieldwork		☐ individual assignments ☐ multimedia and network ☐ laboratories ☐ mentorship ☐ other				
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 paper		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.	10	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	Dr. sc. Alen Jugović, full professor		
Course	Port economics		
Study Programme	Logistics and Management in Maritime Industry and Transport		
Level	Undergraduate		
Type of Course	Core		
Year of Study	2nd		
Estimated Student Workload and Methods of Instruction	ECTS coefficient of Student Workload		5
	Number of Hours (L+E+S)		30+15+0

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.

1.5. Modes of Instruction		
	☒ Lectures	☐ Practical work
	☐ Seminars and workshops	☐ Multimedia and Network
	☒ Exercises	☐ Laboratory
	☐ E-learning	☐ Mentorship
	☐ Field work	☐ Other _____

1.6. Comments	

1.7. Student Obligations

Attending classes
Attending exercises
Classroom activity
Exams (continuous assessment) and tests
Final exam

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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.
3. Theo Notteboom, Athanasios Pallis and Jean-Paul Rodrigue (2020) Port Economics, Management and Policy, New York: Routledge, 2020.

1.11. Recommended Reading

1. Kesić, B., Jugović, A.: Menadžment pomorskoputničkih luka, Pomorski fakultet Sveučilišta u Rijeci, Rijeka, 2006.
2. Wayne, K. Talley: Port Economics, Routledge – Taylor and Francis Group, London and New York, 2009.

1.12. Number of Main Reading Examples

Title	*Number of examples*	*Number of students*
Jugović; A.: Upravljanje morskom lukom, Pomorski fakultet Sveučilišta u Rijeci, Rijeka, 2013.	30	40
Kesić, B.: Ekonomika luka, Pomorski fakultet, Rijeka 2003. (dio)	20	40
Wayne, K.Talley: Port economics, Routledge – Taylor and Francis Group, London and New York, 2009.	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	dr. sc. Ana Perić Hadžić	
Course	Financial management	
Study Programme	Logistics and Management in Maritime Industry and Transport	
Level	undergraduate	
Type of Course	core	
Year of Study	2rd	
Estimated Student Workload and Methods of Instruction	ECTS coefficient of Student Workload	5
	Number of Hours (L+E+S)	30 + 15 + 0

1. GENERAL COURSE DESCRIPTION

1.1. Course Objectives

The main objective of the course is for the student to learn the basics of corporate finance, financial legality and the logic of financial management in the company through financial statements and indicators, in order to be able to deal with current financial problems in practice, and to answer the many challenges that modern financial business brings.

1.2. Prerequisites for Course Registration

None

1.3. Expected Learning Outcomes

After completing the course, the student should know:

1. Describe and explain the basic concepts of financial management (capital, risk, profit, financing)
2. Understand the basic principles of financing business organizations
3. Define and interpret sources of financial information within an enterprise
4. Interpret the phenomenon of time preference for money
5. Explain the basics of financial planning and control
6. Classify different forms of financing in relation to the value of the investment
7. Plan short-term financing models
8. To plan medium-term business organization financing models
9. Explain long-term financing models for business organization expansion
10. Interpret the meaning of business organization restructuring

1.4. Course Outline

- Introduction to Financial Management (Capital and Financial Management, Business Organization with regard to risk, gain and control)
- Sources of Financial Information (Balance Sheet as Source of Financial Information, Profit or Loss Account as Source of Financial Information, and Developmental Analysis of Asset Movements)
- Interest rate and time value of money.
- Financial analysis and planning. Analysis of financial position.

- Financial planning. Ongoing financial planning. Business expansion planning.
- Short-term financing models (Trade loans. Banking and other sources of credit. Securing short-term loan repayments.)
- Models of medium-term financing (credits, rent / loan).
- Long-term financing models (Lending. Securities issue. Financial market. Capital market. Investment funds. Bond business financing. Equity financing.)
- Depreciation financing
- Financial restructuring. Financial significance of selling or merging multiple businesses.
- Remedial actions in case of financial difficulties of the company.

1.5. Modes of Instruction	X Letures ☐ Seminars and workshops X Exercises ☐ E-learning ☐ Field work	☐ Practical work ☐ Multimedia and Network ☐ Laboratory ☐ Mentorship ☐ Other _____
1.6. Comments		

1.7. Student Obligations

The student must attend at least 70% of the total hours of lectures and exercises, and must have passed the exams (continuous assessment) to take the final exam.

1.8. Assessment[1] of Learning Outcomes

Course attendance	1,5	Class participation	0,5	Seminar paper		Experiment	
Written exam	1	Oral exam	1	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 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. Define the term capital
2. Understand the basic principles of business organization financing
3. What are the main sources of financial information in a company
4. What is time preference for money? Give an example of its application?
5. Which activities does financial planning cover?
6. In relation to time, what kind of financing do we recognize?
7. What models of short-term financing do you know?
8. List the pros and cons of financing with advance or loan.
9. Explain the differences in financing a business by issuing shares and bonds
10. What does restructuring of business organizations mean?

[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. Ivanović, Z., Financijski menedžment, drugo izmijenjeno i dopunjeno izdanje, Sveučilište u Rijeci, Hotelijerski fakultet Opatija, Opatija, 1997.

1.11. Recommended Reading

1. Van Horne, J.C., Financial Management and Policy, 12th Edition, California, 2002, Stanford University .
2. Foley, B.J., Capital Markets, Macmillan Education Ltd, London, 1991.
3. Madir, Jelena, Tržišta kapitala : karakteristike financijskih instrumenata i pravni okvir poslovanja,

Zagreb , Mate, Zagrebačka škola ekonomije i managementa, 2009

4. Shiller, Robert J., Finance and the Good Society, Princeton New Jersey, Princeton University Press, 2012
5. Vidučić, Ljiljana , Financijski menadžment, 9. dopunjeno i izmijenjeno izdanje, Zagreb : RRiF plus, 2015
6. Vujević, Ivan,: Financijsko poslovanje, Split, Redak, 2013

1.12. Number of Main Reading Examples

Title	*Number of examples*	*Number of students*
Ivanović, Z., Financijski menedžment, drugo izmijenjeno i dopunjeno izdanje, Sveučilište u Rijeci, Hotelijerski fakultet Opatija, Opatija, 1997.	4	70
Van Horne, J.C., Financial Management and Policy, 12th Edition, California, 2002, Stanford University	1	70
Foley, B.J., Capital Markets, Macmillan Education Ltd, London, 1991	1	70
Madir, Jelena, Tržišta kapitala : karakteristike financijskih instrumenata i pravni okvir poslovanja, Zagreb , Mate, Zagrebačka škola ekonomije i managementa, 2009	1	70
Shiller, Robert J., Finance and the Good Society, Princeton New Jersey, Princeton University Press, 2012	3	70
Vidučić, Ljiljana , Financijski menadžment, 9. dopunjeno i izmijenjeno izdanje, Zagreb : RRiF plus, 2015	5	70
Vujević, Ivan,: Financijsko poslovanje, Split, Redak, 2013	1	70

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	dr. sc. Edvard Tijan		
Course	Information technologies in logistics		
Study Programme	Logistics and Management in Maritime Industry and Transport		
Level	undergraduate		
Type of Course	core		
Year of Study	2nd		
Estimated Student Workload and Methods of Instruction	ECTS coefficient of Student Workload		6
	Number of Hours (L+E+S)		30 + 15 + 0

1. GENERAL COURSE DESCRIPTION

1.1. Course Objectives

The objective of the course is to acquaint students with information and communication technologies (ICT) and their application in maritime transport, transport in general and logistics, to define basic concepts related to information technologies, their development, application, types and to motivate students for further learning in the field of ICT.

Students will be provided with ICT knowledge in terms of hardware, software, human resources and computer networks. Students will be introduced to information and communication technologies in companies in the field of maritime transport, transport in general and logistics.

1.2. Prerequisites for Course Registration

Successfully completed course "Applied computer science

1.3. Expected Learning Outcomes

Students will be able to:
1. Describe the state of the art and trends of development of modern information and communication technologies and systems
2. Understand the key aspects of hardware, software and computer networks
3. Understand the processes, methods and technologies of managing IT services and resources
4. Explain the principles of databases, business applications and business systems
5. State e-commerce technologies
6. Classify information technologies applicable in transport, maritime transport and ports
7. Explain ethical principles, legislation and standards applicable to ICT

1.4. Course Outline

The term, types, features and activities of a system and an information system. Fundamentals of information system development. Historical development of ICT, informatics, computer science, ICT society, information organization.
Hardware. Software. Computer networks. Internet. Databases. E-business, e-banking, m-banking. Procurement and development of information systems. ICT in transport, information flows in transport chain. ICT in maritime transport (VTS, VTMIS, AIS, ECDIS, PMIS…). ICT in ports.

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

The student is required to attend and actively participate in lectures and exercises and be present in at least 70% of classes. All continuous assessments affect the grade, none of which should be satisfied with less than 50%.

1.8. Assessment[1] of Learning Outcomes

Course attendance	1,5	Class participation	0,5	Seminar paper		Experiment	
Written exam		Oral exam	1,5	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.

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

The evaluation is based on the continuous knowledge assessments (through 2 midterm examinations - total 70%), the final part of the exam (30%) and additional tasks.

Examples of evaluating learning outcomes are follows:
- *List the trends in the development of modern ICT*
- *Explain the key aspects of computer architecture*
- *Describe methods for managing ICT services*
- *List the data models and explain the database schema*
- *Describe potential applications for a mobile business*
- *Explain the benefits of implementing AIS and ECDIS systems in maritime transport*
- *List the main features of the electronic document and electronic signature*

1.10. Main Reading

Mile Pavlić: Informacijski sustavi, Školska knjiga, Zagreb, 2011.

1.11. Recommended Reading

1. Velimir Srića et al.: Poslovna informatika, Element, Zagreb, 2009.
2. Vlatko Ćerić, Mladen Varga (ur): Informacijska tehnologija u poslovanju, Element, Zagreb, 2004.
3. Mark Charlton: A Handbook of Information Technology, Global media New Delhi, 2009.
4. Information Communication Technologies (resource materials), National Institute of Education, Maharagama, Sri Lanka, 2006.

1.12. Number of Main Reading Examples

Title	*Number of examples*	*Number of students*
Mile Pavlić: Informacijski sustavi, Školska knjiga, Zagreb, 2011.	10	70

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	Dražen Žgaljić		
Course	Logistics Engineering		
Study Programme	Logistic and Management in Maritime Industry and Transport		
Level	Undergraduate degree programme		
Type of Course	mandatory		
Year of Study	2		
Estimated Student Workload and Methods of Instruction	ECTS coefficient of Student Workload		6
	Number of Hours (L+E+S)		30+30+0

1. GENERAL COURSE DESCRIPTION

1.1. Course Objectives

This subject is a survey of analytic tools, approaches, and techniques that are useful in the design and operation of logistics systems and integrated supply chains in the transportation environment. The four primary objectives of this course are:

1. *Introduce students to the analytic model-based approach for analyzing logistics problems,*
2. *Reinforce the importance of using total supply chain costs in all analysis,*
3. *Provide students with techniques for measuring and managing supply chain uncertainty, and*
4. *Introduce the idea of using a portfolio of solutions, rather than a single approach, for real-world logistics problems.*

1.2. Prerequisites for Course Registration

Essential economy, Cargo flows, English

1.3. Expected Learning Outcomes

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

1. Understand and use the basic concepts of logistics, modern theoretical, and practical achievements in the field of logistics and supply chain.
2. Understand the complex and interactive flows and functions of logistics.
3. Analyze and understand the physical, information, and cash flows in logistics.
4. Acquire knowledge of the models and budgets of logistics systems.
5. Detect the anticipated logistics needs.
6. Calculation of logistics network, resource allocation, vehicle routing, logistics costs, supply management, and determination of the optimal position of logistics resource.

1.4. Course Outline

Logistics. Logistic planning. Logistic strategies. Quality and sustainability in logistics. Distribution systems. Distribution channels. Transport modes analyses. Multimodal transport from Logistic view. Road transport. Railroad transport. Maritime transport. Air transport. Transport in manufacturing. Transport costs. Logistics of maritime transport. Logistic networks modelling. Document flow models. Cargo flow models. Logistic cost concept Origin inventory costs. In transit inventory costs. Safety stock costs. Perishable costs. Costs of transportation. Origin warehouse costs. Logistic cost model for maritime transport. BPD technologies in logistics. Business process reengineering. Case studies

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

1. Class attendance
2. Active participation during class
3. Active participation in the e-learning system
4. Taking mid-term exams
5. Active participation during practical class (on computers)
6. Taking the final exam

1.8. Assessment[1] of Learning Outcomes

Course attendance	0,5	Class participation		Seminar paper		Experiment	
Written exam	2,5	Oral exam		Essay		Research	
Project		Continuous Assessment	3	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

Examples of assessing the learning outcomes:

1. *Explain the basic concepts of logistics and supply chain management.*
2. *Explain logistics flows and components.*
3. *Calculation of vehicle routing.*
4. *Using the computer program Excel, calculate the quantity of goods and the time of the order.*
5. *Predict customer needs based on historical data.*

1.10. Main Reading

1. Čišić, D.: Inženjerska logistika, on-line predavanja, http://moodle.srce.hr/2016-2017/course/view.php?id=12969
2. Taylor, G. Don: Introduction to Logistics Engineering, CRC Press, 2009
3. Čišić, D.: Zbirka zadataka iz logistike, PFRI, Rijeka, 2008

1.11. Recommended Reading

1. Ballou, R. H.: Business logistics/supply chain management, Pearsons, 2004
2. Brandimarte, P., Zotteri, G.: Introduction to Logistics Systems Management, Willey, 2013

1.12. Number of Main Reading Examples

Title	*Number of examples*	*Number of students*
Introduction to Logistics Engineering	5	70
Workbook in Logistics	10	70

1.13. Quality Assurance

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

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3.2. Course Description

Generic information		
Head of Course	Igor Vio, PhD	
Course	Transport Insurance	
Study Programme	Logistics and Management in Maritime Industry and Transport	
Level	Undergraduate degree programme	
Type of Course	Elective	
Year of Study	3	
Estimated Student Workload and Methods of Instruction	ECTS Coefficient of Student Workload	4
	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.

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

1.7. Student Obligations

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%).

1.8. Assessment[1] of Learning Outcomes

Course attendance	1,5	Class participation		Seminar paper	0,5	Experiment	
Written exam	1,0	Oral exam		Essay		Research	
Project		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 evaluation procedure consists of continuous examination of knowledge in the form of three tests and a final exam. Examples of evaluating learning outcomes during classes and on the final exam:

1. Indicate and define the basic concepts and principles of transport insurance
2. List the international and national legal sources of transport insurance and explain their specific solutions for maritime, air and land transport
3. Enumerate the basic types of transport insurance contracts and compare their characteristics and elements, and specify and describe types of insurance policy and other relevant documents
4. Explain and discuss the importance of the Institute Cargo Clauses, and in particular elaborate on the application of specific cargo clauses in domestic and international maritime, land and air transport
5. Specify and describe the most important features of the Institute Hulls Clauses, then compare the terms and conditions according to the risks covered, and elaborate the specific insurance terms for boats and yachts coverage
6. Describe the organization of P&I clubs, explain their importance for liability insurance of shipping companies, and list the most important club functions
7. List the specific terms and conditions for land and air transport insurance and explain their application
8. Interpret the features of the procedures for obtaining evidence, analyse the specifics of drafting and collecting documents and demonstrate modalities of reporting damage claims to the insurer
9. Explain the concepts and types of co-insurance and reinsurance, describe their characteristics and 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.

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)	21
Sustav transportnih osiguranja	Sufficient (in library and book shop)	21
Međunarodna osiguranja	Available on the website (pfri.uniri.hr)	21

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	doc. dr. sc. Dražen Žgaljić	
Course	Transport systems	
Study Programme	Logistics and Management in Maritime Industry and Transport	
Level	undergraduate	
Type of Course	core	
Year of Study	2nd	
Estimated Student Workload and Methods of Instruction	ECTS coefficient of Student Workload	4
	Number of Hours (L+E+S)	30 + 0 + 0

1. GENERAL COURSE DESCRIPTION

1.1. Course Objectives

The objective of the course is to introduce the students with different technologies in freight and passenger transport, the basics and different characteristics of managing the transport infrastructure, as well as with the organization of transportation and the performance evaluation criteria.

1.2. Prerequisites for Course Registration

None

1.3. Expected Learning Outcomes

After the successful completion of the course, the student will be able to:

- Explain the different modes and technologies of freight and passenger transportation.
- Explain transport infrastructure management models (road, rail, sea, inland waterways).
- Explain different ways of organizing the transportation of goods and passengers.
- Explain external and internal performance factors of each part of the transport chain.
- Understand and explain privatization models in the ports.
- Understand the characteristics of the Short Sea Shipping system.
- Understand the characteristics of Motorways of the Sea systems.

1.4. Course Outline

Define, describe and explain the elements of the transport system / transport chain. Understanding and introducing to the interdependence of elements and branches of the transport system (for each system separately). Technical and technological characteristics of all modes of transport and modern transportation technologies. Ownership of transport system elements. Models for the development of transport systems. Models of transport systems management. Liberalization of transport sector business. Performance evaluation criteria for individual elements of the transport system and interdependence in a multimodal system. Introduction of modern technologies / transportation systems in the flow of goods in the Republic of Croatia, for the purpose of inclusion in the international flow of goods (SSS and MoS).

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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

1. Attending classes,
2. Active participation during classes,
3. Activities in the eLearning system,
4. Written exam,
5. Final exam.

1.8. Assessment[1] of Learning Outcomes

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

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

The assessment is carried out through:

1. *examination through two written exams,*
2. *examination via e-learning system during the class,*
3. *examination through final exam.*

Examples of evaluating learning outcomes:

1. *Describe different modes of transport through the intermodal mode of transport.*
2. *Analyse the models of transport infrastructure management.*
3. *Describe the different ways of organizing freight transportation.*
4. *Describe the impact of external performance factors of the railway section of the transport chain.*
5. *Compare privatization models in ports.*
6. *Describe the functioning of Short Sea Shipping system.*
7. *Propose a solution for stimulating the development of Motorways of the Sea at the level of a region or a transport corridor.*

1.10. Main Reading

Bošnjak, I., Badanjak, D.: Osnove prometnog inženjerstva, Fakultet prometnih znanosti Sveučilišta u Zagrebu, Zagreb, 2005.
Bošnjak, I: Inteligentni transportni sustavi 1, Fakultet prometnih znanosti Sveučilišta u Zagrebu, Zagreb, 2006.
Božičević, D., Kovačević, D.: Suvremene transportne tehnologije, Fakultet prometnih znanosti Sveučilišta u Rijeci, Zagreb, 2002.
Estache, A., De Rus, G.: Privatization and Regulation of Transport Infrastructure Guidelines for Policymakers and Regulators, World Bank Development Studies, World Bank, 2000.
Zelenika, R.: Multimodalni prometni sustavi, Ekonomski fakultet Sveučilišta u Rijeci, Rijeka, 2006.
Zelenika, R.: Pravo multimodalnog prometa, Ekonomski fakultet Sveučilišta u Rijeci, Rijeka,2006.
Zelenika, R.: Prometni sustavi, Ekonomski fakultet Sveučilišta u Rijeci, Rijeka, 2001.

[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.

1.11. Recommended Reading

Baričević H.: Tehnologija kopnenog prometa, Pomorski fakultet, Rijeka, 2001.
Božičević, J. i drugi autori: Hrvatska u 21. stoljeću – Promet. Vlada Republike Hrvatske, Ured za strategiju razvitka Republike Hrvatske, Zagreb, 2001.
Bukljaš Skočibušić, M., Radačić, Ž., Jurčević, M.: Ekonomika prometa, Fakultet prometnih znanosti Sveučilišta u Zagrebu, Zagreb, 2011.
Dundović, Č.: Lučki terminali, Udžbenici Sveučilišta u Rijeci, 2002.
Dundović, Č.: Prekrcajna sredstva prekidnoga transporta, Pomorski fakultet Sveučilišta u Rijeci, Glosa, Rijeka, 2005.
Dundović, Č.: Tehnološki procesi u prometu, Sveučilište u Rijeci, Odjel za pomorstvo, Rijeka, 2001.
Jugović, A.: Upravljanje morskom lukom, Pomorski fakultet Sveučilišta u Rijeci, 2012.
Miloš, I.: Tehnologija i organizacija intermodalnog prometa, Veleučilište u Rijeci, 2011.
Ortuzar, J de D., Willumsen, L. G.: Modelling Transport, 4th Edition, John Wiley and Sons, 2011.
Zečević, S.: Robni terminali i robno transportni centri, Saobraćajni fakultet univerziteta Beograd, 2006.

Scientific and professional papers related to transport systems, MoS, SSS published in foreign and national journals

1.12. Number of Main Reading Examples

Title	*Number of examples*	*Number of students*
Bošnjak, I., Badanjak, D.: Osnove prometnog inženjerstva, Fakultet prometnih znanosti Sveučilišta u Zagrebu, Zagreb, 2005.	8	
Bošnjak, I: Inteligentni transportni sustavi 1, Fakultet prometnih znanosti Sveučilišta u Zagrebu, Zagreb, 2006.	6	
Božičević, D., Kovačević, D.: Suvremene transportne tehnologije, Fakultet prometnih znanosti Sveučilišta u Rijeci, Zagreb, 2002.	3	
Estache, A., De Rus, G.: Privatization and Regulation of Transport Infrastructure Guidelines for Policymakers and Regulators, World Bank Development Studies, World Bank, 2000.	0 The full text is available on the Internet	
Zelenika, R.: Multimodalni prometni sustavi, Ekonomski fakultet Sveučilišta u Rijeci, Rijeka, 2006.	2	
Zelenika, R.: Pravo multimodalnog prometa, Ekonomski fakultet Sveučilišta u Rijeci, Rijeka,2006.	6	
Zelenika, R.: Prometni sustavi, Ekonomski fakultet Sveučilišta u Rijeci, Rijeka, 2001.	7	

1.13. Quality Assurance

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

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3.2. Course description

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

1. GENERAL COURSE DESCRIPTION

1.1. Course Objectives

Physical and health culture is an educational area of reconciling biopsychosocial motives for movement as an expression of meeting certain human needs, which enhance adaptive and creative abilities in contemporary living and working conditions.

The realization of the physical and health education area requires the achievement of general and specific tasks. It is necessary to achieve knowledge about the factors causing diseases and injuries, to develop proper attitudes towards health and illness, and to take measures to protect and promote health. The adoption of a specific motor information fund is necessary for the efficient addressing of the needs for the preservation and development of health, the more meaningful use of leisure time and the solution of daily motor tasks. Well-prepared, organized and guided physical and health education is a prerequisite for achieving goals and objectives. The contents of physical exercise and sports develop functional, morphological, motor, conative and cognitive characteristics of the organism and aim to acquire motor knowledge, skills, habits, preserve and improve the health and psychological stability of individuals.

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

1. Select optional kinesiology activity
2. Improve the acquisition of general and specific motor skills, knowledge, skills and habits
3. Apply, use preserving and promoting health
4. Support the safeguarding and enhancement of the psychological stability of the individual as a prerequisite for the health of seafarers on the boat
5. Develop a more meaningful use of leisure time
6. Evaluate and develop day-to-day motor tasks

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7. To choose the possibility of solving motor tasks in urgent situations
8. Perform the creation of humane interpersonal relationships that depend on the health of the individual and society as a whole
9. Improve knowledge of the factors that cause injury and illness
10. 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).

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	Seminar paper is written by part-time students.	

1.7. Student Obligations

Active class attendance and activity in at least 70% of classes.

1.8. Assessment[1] of Learning Outcomes

Course attendance	0,5	Class participation	0,5	Seminar paper		Experiment	
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

Active class attendance and activity in at least 70% of classes.

1.10. Main Reading

1.11. Recommended Reading

1. Findak V.: Metodika tjelesne i zdravstvene kulture, Školska knjiga Zagreb, 1999.
2. Volčanšek B.: Sportsko plivanje, Sveučilište u Zagrebu, Fakultet za fizičku kulturu, Zagreb, 1996.
3. Volčanšek B.: Bit plivanja , Kineziološki fakultet Sveučilišta u Zagrebu, Zagreb, 2002
4. Anderson B.: Stretching, Vježbe istezanja za svakodnevni fitness: trčanje, plivanje, tenis, biciklizam, skijanje, košarka, nogomet i ostale sportove, Gopal, d.o.o., Zagreb, 1997.
5. Anderson B., Burke E., Pearl B.: Fitnes za sve, Gopal, d.o.o., Zagreb, 19997.
6. Janković V. , N. Marelić.: Odbojka, Fakultet za fizičku kulturu Sveučilišta u Zagrebu, Zagreb 1995.
7. Kosinac, Z.: Kineziterapija, tjelesno vježbanje i sport kod djece i omladine oštećena zdravlja, Split, 198

[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.

8. Šnajder V., D. Milanović : Atletika, hodanja , trčanja, Fakultet za fizičku kulturu Sveučilišta u Zagrebu, Zagreb, 1991.
9. Gabrijelić M.: Škola nogometa I, Sportska štampa, Zagreb, 1965.
10. Matković B., S. Ferenčak, M. Žvan : Skijajmo zajedno, Zagreb, 2004.

1.12. Number of Main Reading (Examples)

Title	*Number of examples*	*Number of students*
		81

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. Each class is closely monitored for each (none) arrival and activity of the student on a separate sheet Physical and Health Culture, where the results of longitudinal monitoring are in general and specific psychomotor abilities, knowledge and achievements and functional abilities. The College of Physical and Health Education is evaluated for a particular semester by enrolling in the ISVU system "PASSED".

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3.2. Course description

Generic information			
Head of Course	Dario Ogrizović, PhD		
Course	E-business		
Study Programme	Logistics and Management in Maritime Industry and Transport		
Level	Undergraduate degree programme		
Type of Course	Core		
Year of Study	3rd		
Estimated Student Workload and Methods of Instruction	ECTS coefficient of Student Workload		4
	Number of Hours (L+E+S)		30 + 30 + 0

1. 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

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 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

The student must attend at least 70% of the total hours of lectures and exercises, and must have passed the exams (continuous assessment) to take the final exam.

1.8. Assessment[1] 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 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, 2017.	10	40
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.	10	40

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	**Associate professor Siniša Vilke, Ph.D.**		
Course	**Land transport technology**		
Study Programme	**Logistic and management in maritime industry and transport**		
Type of Course	Otpional		
Year of Study	3		
Estimated Student Workload and Methods of Instruction	ECTS coefficient of Student Workload		5
	Number of Hours (L+E+S)		45 + 30 + 0

1. 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
2. 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. 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

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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.

1.5. Modes of Instruction	X Lectures X Seminars and workshops X Exercises ☐ E-learning ☐ Field work	X Practical work ☐ Multimedia and Network ☐ Laboratory ☐ Mentorship ☐ 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. Assessment[1] of Learning Outcomes

Course attendance	1	Class participation	1	Seminar paper		Experiment	1
Written exam		Oral exam	1	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.

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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	Prof. Dr. Bojan Hlača		
Course	Port Logistics		
Study Programme	Logistics and Management in Maritime and Transport		
Level	Undergraduate degree programme		
Type of Course	Obligatory		
Year of Study	3		
Estimated Student Workload and Methods of Instruction	ECTS coefficient of Student Workload	5	
	Number of Hours (L+E+S)	30 +15 +0	

1. GENERAL COURSE DESCRIPTION

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 for Course Registration

No

1.3. Expected Learning Outcomes

1. Explain the basic features of terminals by type of cargo in logistics systems
2. Explain and describe cargo flows
3. Explain and describe the term port
4. Analyze the evolution of ports into the supply chain
5. Describe ports and terminals as intermodal centers
6. Describe ports as commodity transport centers
7. Explain how to measure port efficiency
8. Explain how to choose the north or south Europe traffic route
9. Analyze the selection of container port by liner shipping companies

1.4. Course Outline

Terminals by type of cargo in logistics systems. Cargo flows. Ports. The evolution of ports into the supply chain. Ports and terminals as intermodal centers. Measuring port efficiency. Choosing a north or south Europe traffic route. Selection of container port by liner shipping 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 Obligations

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

1.8. Assessment[1] 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)

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3.2. Course description

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

1. 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, ...).

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

Seminar work presentation, 1st colloquium, 2nd colloquium, final exam

1.8. Assessment[1] 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							

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.

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 (https://moodle.srce.hr)	+	55
Zelenika, R., Temelji logističke špedicije, Ekonomski fakultet Sveučilišta u Rijeci, Rijeka, 2005.	5	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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Table 2.

3.2. Course description

Generic information			
Head of Course	Mirjana Borucinsky		
Course	German Language 1		
Study Programme	Logistics and Management in Maritime Affairs and Transport		
Level	Bachelor		
Type of Course	elective		
Year of Study	III	Semester	V
Estimated Student Workload and Methods of Instruction	ECTS coefficient of Student Workload		3
	Number of Hours (L+E+S)		15 + 30+0

1. GENERAL COURSE DESCRIPTION		
1.1. Course Objectives		
The main objective of the course is to expand students' proficiency and improve their written and spoken communication skills using the specific terminology of logistics, management, technology and transport in maritime affairs and industry.		
1.2. Prerequisites for Course Registration		
Proficiency level B1.		
1.3. Expected Learning Outcomes		
Upon completing the course/passing the exam, students will be able to: 1. Discuss general language topics in German. 2. Discuss technical topics in German. 3. Differentiate between meanings of a term encountered in general language and language for specific purposes. 4. Translate technical texts from German into Croatian (or another target language, e.g. English) and vice versa. 5. Use language skills to communicate effectively in the business surrounding.		
1.4 Course Outline		
Fachterminologie aus dem Bereich: Grundzüge der Beförderung. Verkehrszweige (Schiffsverkehr, Straßenverkehr, Schienenverkehr, Luftverkehr). Verkehrsinfrastruktur. Terminals. Geschäftskorrespondenz (Anfrage, Angebot, Bestellung) Zeitformen der Verben, 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 Obligations		

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 Assessment[1] 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 GmbH, Troisdorf, 2002.	web	
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.

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3.2. Course description

Generic information			
Head of Course	Biserka Rukavina, PhD		
Course	Shipping agencies		
Study Programme	Logistic and Management in Maritime Industry and Transport		
Level	Undergraduate degree programme		
Type of Course	Compulsory		
Year of Study	3.		
Estimated Student Workload and Methods of Instruction	ECTS coefficient of Student Workload		5
	Number of Hours (L+E+S)		2+ 1 + 0

1. GENERAL COURSE DESCRIPTION

1.1. Course Objectives

Acquiring knowledge of the basic characteristics of maritime agents. Understanding of the historical development of the genesis of maritime agencies and the purpose of their establishment. Knowledge of the structure of the functions of maritime agents and identification of 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 operations.
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.

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 Obligations

Class attendance.
Practical work (Power Point presentation).
The colloquiums.
Final exam.

1.8. Assessment[1] of Learning Outcomes

Course attendance	1,5	Class participation		Seminar paper	0,5	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.

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 is available in the e-learning system.

1.11. Recommended Reading

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 is 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.

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3.2. Course description

Generic information			
Head of Course	Dario Ogrizović, PhD		
Course	Cloud Computing		
Study Programme	Logistics and Management in Maritime Industry and 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		4
	Number of Hours (L+E+S)		30 + 15 + 0

1. 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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1.5. 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

The student must attend at least 70% of the total hours of lectures and exercises, and must have passed the exams (continuous assessment) to take the final exam.

1.8. Assessment[1] 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).

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Table 2.

3.2. Course description

Generic information			
Head of Course	Ines Kolanović, Full Professor		
Course	Port and Terminal Technology		
Study Programme	Logistic and Management in Maritime Industry and Transport		
Level	Undergraduate Level		
Type of Course	Elective		
Year of Study	3.	Semester	V.
Estimated Student Workload and Methods of Instruction	ECTS coefficient of Student Workload		5
	Number of Hours (L+E+S)		45 + 15+ 0

1. GENERAL COURSE DESCRIPTION		
1.1. Course Objectives		
The objective of this course is to provide students to be able to identify, to analyze and to explain the technical and technological features of ports and terminals, as well as traffic and technological processes at port terminals.		
1.2. Prerequisites for Course Registration		
-		
1.3. Expected Learning Outcomes		
It is expected that the student will be able: 1. Properly interpret the basic concepts: transport technology, port and terminal technology, transport and technological process 2. Systematically analyze and interpret the elements and relationship of the port, transport and economic systems 3. Recognize and distinguish the basic features of port-maritime facilities in connection with the realization of the port services 4. To classify port warehouses according to different criteria and to clarify with a concrete example 5. To explain the technical and technological characteristics of the terminal on a concrete example for different types of cargo 6. To distinguish and compare technological processes at port terminals		
1.4. Course Outline		
Conceptual explanations: transport technology, port and terminal technology, traffic and technological process. Impact of technological changes in shipping on the development of ports and terminals. Port infrastructure and superstructure. Port and terminal planning and design. Port-maritime facilities. Port warehouses. Special purpose ports. River ports. Types of terminals. Port terminal capacity assessment methodology. Technological processes at port terminals. Specialized terminals.		
1.5. Modes of Instruction	+ Lectures ☐ Seminars and workshops + Exercises ☐ E-learning	+ Practical work ☐ Multimedia and Network ☐ Laboratory ☐ Mentorship

	☐ 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 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. 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.

<u>Examples of Assessment of Learning Outcomes</u>:
1 Define terms: transport technology, port and terminal technology, transport and technological process (LO1)
2. Show and comment relationship of the port, transport and economic system with the example of the Republic of Croatia (LO2)
3. In the specific example, highlight the basic features of the port-maritime facilities (LO3)
4. Group the port warehouses in accordance with the different criteria (LO4)
5. Combine the technical and technological features of one type of terminal on the concrete example (LO5)
6. Designing technological processes at the port terminal (LO6)

1.10. Main Reading

1. Dundović, Č.: Lučki terminali, sveučilišni udžbenik, Pomorski fakultet u Rijeci, Rijeka, 2002.
2. 2. Dundović, Č., Kesić, B.: Tehnologija i organizacija luka, sveučilišni udžbenik, Pomorski fakultet u Rijeci, Rijeka, 2001.

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.
2. Ivaković, Č.: Božičević, D., Smoljić, Lj., Đaković, N.: Osnove vodnog prometa, Sveučilište u Zagrebu, Fakultet prometnih znanosti, Zagreb, 1997.
3. 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.

1.12. Number of Main Reading Examples

Title	*Number of examples*	*Number of students*

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	Renato Ivče, PhD, Professor		
Course	Maritime transport technology		
Study Programme	Logistic and Management in Maritime Industry and Transport		
Level	University undergraduate study program		
Type of Course	Optional		
Year of Study	3.		
Estimated Student Workload and Methods of Instruction	ECTS coefficient of Student Workload		3
	Number of Hours (L+E+S)		**(30 + 15 + 0)**

1. 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
3. - 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☐ Practical work ☐ Multimedia and Network ☐ Laboratory ☐ Mentorship ☐ Other _____
1.6. Comments		
1.7. Student Obligations		
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 Reading

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. Međunarodni 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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3.2. Course description

Generic information		
Head of Course	Assit. prof. Livia Maglić, phD	
Course	Internal transport and Warehousing	
Study Programme	Logistics and Management in Maritime Industry and Transport	
Level	Undergraduate	
Type of Course	Elective	
Year of Study	3nd	
Estimated Student Workload and Methods of Instruction	ECTS coefficient of Student Workload	4
	Number of Hours (L+E+S)	30+15+0

1. GENERAL COURSE DESCRIPTION

1.1. Course Objectives

Providing and obtaining a basic knowledge of rational planning, design, and operational management of internal transport and warehouse in port, industrial and transportation activities. Furthermore, gathering the knowledge necessary for the optimal technical and technological operations of a particular transport company. Analysis and comparison of possible ways as well as choosing the optimal way of handling material and managing the internal traffic process for the selected transport company.

1.2. Prerequisites for Course Registration

None.

1.3. Expected Learning Outcomes

After passing the exam, students are expected to be able to:
1. Define internal transport and warehouse as a technical and technological unit
2. Define and explain all internal transport and warehouse processes requiring Spatio-temporal organization, and technological, economic and environmental compliance of individual constituent segments
3. Establish clear criteria for the application and selection of means of internal transport and warehouse, with the calculation of the required capacities
4. Apply mathematical methods and models for evaluating alternative transportation and warehouse solutions
5. Analyze and compare possible ways of handling material and managing the internal transport process
6. Choose the optimal way of handling the material and managing the internal transport process in a specific

1.4. Course Outline

Internal transport system design features. Packaging and sorting of goods. Examination of the flow of materials and processes in internal transport. The impact of internal transport on the physical layout and organization of work of economic entities. Features and role of warehousing in internal transport. Means of transport and equipment for internal transport and warehouse. Material handling equipment and internal transport process management. Capacity estimation and simulation of internal transport 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	

1.7. Student Obligations

Active participation in class and at least 70% of classes attended. Designing work assignments during the class. Colloquiums passed during the class and the final exam.

1.8. Assessment[1] of Learning Outcomes

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

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:
Continuous assessment:
- 3 colloquiums where a minimum of 55% is required
Final exam:
The final exam (oral exam) examine the completeness of theoretical knowledge and understanding of the operational management of internal transport and warehouse in the port, industrial and transport activities necessary for the optimal technical and technological operations of a particular transport company.

1.10. Main Reading

1. Dundović, Č., Hess, S.: Unutarnji transport i skladištenje, Pomorski fakultet u Rijeci, Rijeka, 2007.
2. Šamanović, J.: Logistički i distribucijski sustavi, Ekonomski fakultet, Split, 1999.
3. Dundović, Č.: Prekrcajna sredstva prekidnog transporta, Pomorski fakultet u Rijeci, Rijeka, 2005.

1.11. Recommended Reading

1. Hompel ten M., Schmidt, T., Warehouse Management / Automation and Organisation of Warehouse and Order Picking Systems, Springer, 2010.
2. Zrnić, Đ., Savić, D., Simulacija procesa unutrašnjeg transporta, Mašinski fakultet, Beograd, 1985.
3. 3. Schroeder, G.R., Upravljanje proizvodnjom / Odlučivanje u funkciji proizvodnje, Četvrto izdanje, Mate d.o.o., Zagreb, 1999.

1.12. Number of Main Reading Examples

Title	*Number of examples*	*Number of students*
Dundović, Č., Hess, S.: Unutarnji transport i skladištenje, Pomorski fakultet u Rijeci, Rijeka, 2007.	5	65
Šamanović, J.: Logistički i distribucijski sustavi, Ekonomski fakultet, Split, 1999.	5	
Dundović, Č.: Prekrcajna sredstva prekidnog transporta, Pomorski fakultet u Rijeci, Rijeka, 2005	5	

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.

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[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			
Course	B.Sc. thesis		
Study Programme	Logistics and management in maritime transport		
Level	undergraduate		
Type of Course	compulsory		
Year of Study	3		
Estimated Student Workload and Methods of Instruction	ECTS coefficient of Student Workload	10	
	Number of Hours (L+E+S)	-	

1. 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

The B.Sc. thesis is an independent professional and/or scientific study of the selected topic. By completing the B.Sc. thesis, the student demonstrates competences and acquired outcomes related to problem solving within professional and scientific areas covered by the undergraduate study program Logistics and management in maritime transport, as well as theoretical and practical knowledge acquired during undergraduate studies.
The B.Sc. thesis is assigned, written and defended in Croatian language. Exceptionally, the student may choose to write and defend the B.Sc. thesis in another (foreign) language. The B.Sc. thesis is defended orally in front of a B.Sc. Thesis Defense Committee.

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

Student obligations include: completion of the B.Sc. thesis in continuous consultation with the supervisor during the summer semester and successful defense of the B.Sc. thesis in front of the defense Committee. The procedure for applying, completing, defending and evaluating the B.Sc. thesis is described in the B.Sc. Thesis Regulation for undergraduate university study programs at the Faculty of Maritime Studies in Rijeka.

1.8. Assessment[1] of Learning Outcomes

Course attendance		Class participation		Seminar paper		Experiment	
Written exam		Oral exam	2	Essay		Research	4
Project	4	Continuous Assessment		Presentation		Practical work	
Portfolio							

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

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

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

Title	*Number of examples*	*Number of students*
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	

1.13. 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	Assoc Prof Ana Perić Hadžić		
Course	Marketing		
Study Programme	Logistic and Management in Maritime Industry and Transport		
Level	Undergraduate degree programme		
Type of Course	Elective		
Year of Study	3rd	V	
Estimated Student Workload and Methods of Instruction	ECTS coefficient of Student Workload		4
	Number of Hours (L+E+S)		30+15+0

1. GENERAL COURSE DESCRIPTION

1.1. Course Objectives

Acquisition of the necessary knowledge in the field of marketing, with special attention focused on the marketing mix, ie product analysis, different approaches to product price formulation, distribution flows and channels, and product promotion that includes various forms of communication with the market. Introducing students to new marketing trends.

1.2. Prerequisites for Course Registration

-

1.3. Expected Learning Outcomes

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

1. List the components of the marketing mix
2. Explain product properties and market entry
3. List and explain different approaches to the product price formulation
4. List and explain different types of distribution channels
5. Explain the role of promotional activities in the market
6. Analyze new marketing trends

1.4. Course Outline

Basic marketing features: marketing evolution, marketing mix
Marketing environment: suppliers, consumers, competitors, intermediaries
Product analysis: product properties, brand, packaging, product life cycle
Product price determinants: different approaches to price formulation, the importance of market price
Determinants of product distribution: distribution flows and channels, wholesale functions, retail functions
Ways of product promotion: various forms of communication with the market, advertising, personal sales
Consumer analysis: the process of making a purchase decision, influences on making purchasing decisions
Market analysis: market selection and segmentation
New trends in marketing: online marketing, CRM functions, advertising on social networks

1.5. Modes of Instruction	X Lectures X Seminars and workshops X Exercises ☐ E-learning ☐ Field work	☐ Practical work X Multimedia and Network ☐ Laboratory ☐ Mentorship ☐ Other _____
1.6. Comments		
1.7. Student Obligations		
Class attendance Activity during classes Passing the mid-term exams Passing the final exam		

1.8. Assessment[1] of Learning Outcomes

Course attendance	1,5	Class participation		Seminar paper	0,5	Experiment	
Written exam	1	Oral exam		Essay		Research	
Project		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

Two mid-term exams and two tests are assessed during classes, as well as the final exam.

1. List the components of the marketing mix.
2. Explain all the ways in which a product can be introduced to the market.
3. List at least three different approaches to product price formulation.
4. List the types of distribution channels that exist.
5. Explain how product differentiation affects the formation of the product price and its market position.
6. Analyze how social networks affect product promotion.

1.10. Main Reading

1. Grbac, B.: Identitet marketinga, Sveučilište u Rijeci, Ekonomski fakultet Rijeka, Rijeka, 2006.

1.11. Recommended Reading

1. Dibb, S., Simkin, L., Pride, W. M., Ferrell, O.C.: Marketing: Concepts and Strategies. 5th Edition Houghton Mifflin, Abingdon, 2005

1.12. Number of Main Reading Examples

Title	*Number of examples*	*Number of students*
Grbac, B.: Identitet marketinga, Sveučilište u Rijeci, Ekonomski fakultet Rijeka, Rijeka, 2006.	6	70

1.13. Quality Assurance

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

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Table 2.

3.2. Course description

Generic information			
Head of Course	Mirjana Borucinsky		
Course	German Language 2		
Study Programme	Logistics and Management in Maritime Affairs and		
Level	Bachelor		
Type of Course	elective		
Year of Study	III	Semester	VI
Estimated Student Workload and Methods of Instruction	ECTS coefficient of Student Workload		3
	Number of Hours (L+E+S)		15 + 30+0

1. GENERAL COURSE DESCRIPTION

1.1. Course Objectives

The main objective of the course is to expand students' proficiency and improve their written and spoken communication skills using the specific terminology of logistics, management, technology and transport in maritime affairs and industry.

1.2. Prerequisites for Course Registration

Proficiency level B1.

1.3. Expected Learning Outcomes

Upon completing the course/passing the exam, students will be able to:

1. Discuss general language topics in German.
2. Discuss technical topics in German.
3. Differentiate between meanings of a term encountered in general language and language for specific purposes.
4. Translate technical texts from German into Croatian (or another target language, e.g. English) and vice versa.
5. Use language skills to communicate effectively in the business surrounding.

1.4 Course Outline

Fachterminologie aus dem Bereich: Seefracht. Güterumschlag. Verladeeinrichtungen. Häfen.
Geschäftskorrespondenz (Bestellung, Widerruf, Versandanzeige)
Passiv, Nebensätze, Wortbildung.

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

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 Assessment[1] 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*
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		

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.**

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3.2. Course description

Generic information		
Head of Course	Associate Professor Edvard Tijan, PhD	
Course	Sustainable logistics	
Study Programme	Logistics and Management in Maritime Industry and Transport	
Level	undergraduate	
Type of Course	core	
Year of Study	3rd	VI
Estimated Student Workload and Methods of Instruction	ECTS coefficient of Student Workload	4
	Number of Hours (L+E+S)	30 + 0 + 0

1. GENERAL COURSE DESCRIPTION		
1.1. Course Objectives		
The aim of this course is to acquaint students with the principles of sustainable development and ecological approach to logistics. Students will be able to understand and analyse the impact of logistics and supply chains on reducing greenhouse gas emissions.		
1.2. Prerequisites for Course Registration		
The student has passed the courses: Fundamentals of Logistics, Logistics Engineering (Engineering logistics)		
1.3. Expected Learning Outcomes		
After passing the exam, students will be able to: 1. Understand the basic concepts of environmental sustainability of logistics procedures, 2. Assess the impact of transport on the environment, 3. Analyse the costs of environmental protection and sustainable development in logistics, 4. Reconstruct the logistics and supply chain for sustainability purposes.		
a. Course Outline		
1. Sustainable development, 2. The role of green logistics and transport in a sustainable supply chain, 3. Green logistics networks, 4. Smart city logistics, 5. Environmental impact of traffic, 6. Environmental impact of inventory management, 7. New vehicle technologies and environmentally friendly fuels, 8. Reducing greenhouse gas emissions, 9. Ecology and sustainable maritime transport, 10. Analysis of environmental effects of air traffic, 11. Physical Internet Initiative.		
b. Modes of Instruction	X Lectures ☐ Seminars and workshops	☐ Practical work X Multimedia and Network

	☐ Exercises X E-learning ☐ Field work	☐ Laboratory ☐ Mentorship ☐ Other _____
c. Comments		

d. Student Obligations

1. **Class attendance**
2. **Activity during class**
3. **Activity on the e-learning platform**
4. **Research**
5. **Taking and passing the mid-term exams**
6. **Passing the final exam**

e. Assessment[1] of Learning Outcomes

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

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

Evaluation includes:

1. Activity on the e-learning platform
2. Taking and passing the mid-term exams
3. Passing the final exam

Examples of evaluating learning outcomes:

1. Explain the basic concepts of environmental sustainability of logistics procedures
2. Research and forecast ecological parameters for the port of Rijeka
3. Assess the impact of traffic on the environment for the Rijeka-Zagreb traffic route
4. Analyse the costs for each traffic route
5. Reconstruct the logistical routes in the Mediterranean for the purpose of sustainability after the creation of the SECA zone

g. Main Reading

1. McKinnon, Cullinane, Browne, Whiteing Green Logistics: Improving the Environmental Sustainability of Logistics Kogan Page 2010.

h. Recommended Reading

1. Behnam, G.H. Bell, Hensher, Sarkis (eds.) Green Logistics and Transportation: A Sustainable Supply Chain Perspective Springer 2015
2. Lun, Lai, Wong, Cheng Green Shipping Management Springer 2016

i. Number of Main Reading Examples

Title	*Number of examples*	*Number of students*

[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.

Green Logistics: Improving the Environmental Sustainability of Logistics	5	70
Green Shipping Management	2	70

j. 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	Dr. sc. Alen Jugović, full professor		
Course	Entrepreneurship		
Study Programme	Logistics and Management in Maritime Industry and Transport		
Level	Undergraduate		
Type of Course	Core		
Year of Study	3rd		
Estimated Student Workload and Methods of Instruction	ECTS coefficient of Student Workload		5
	Number of Hours (L+E+S)		30+15+0

1. GENERAL COURSE DESCRIPTION

1.1. Course Objectives

Introducing students to theoretical knowledge and practical problems of entrepreneurship. Acquiring knowledge and ability to identify and develop entrepreneurial ideas.

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 entrepreneurship
2. List the stages of the entrepreneurial venture: from the idea to the realization
3. Analyze ways of finding ideas and markets
4. Explain the basic features of business models
5. Explain the stages of business plans
6. Analyze and apply the stages and procedures of business registration
7. Analyze the sources and ways of financing the company

1.4. Course Outline

Basic definitions of entrepreneurship (classic and contemporary approach to definition). Basic features of entrepreneurship. Definition of the stages of an entrepreneurial venture from the beginning (idea) to the end (profit). Entrepreneurship trends and adapting to the contemporary lifestyle.

Entrepreneur's profile. How to identify an entrepreneur in yourself? What are the characteristics that an entrepreneur needs to possess in order to be successful? How to successfully address the recognized skills and competences of the entrepreneurial process?

Opportunity analysis. Opportunities and insecurities in entrepreneurship. Sources of uncertainty - start-up strategies vs. established business strategies. Learning along the way and changing directions. Sources of innovation. The importance of innovation. Opportunity assessment. Competitive approach. From idea to opportunity.

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Markets and planning. Market segmentation. Understanding users' needs. Competitive analysis. Generating ideas with the help of individuals and groups. Assumptions of successful planning. Discovery-based planning.

Design, testing and prototype. How to test an idea and conduct a research? Prototype creation. Minimum conditions for product sustainability. When to go into entrepreneurship?

Creating your own business models. Functions of business models. Frameworks for creating business models. Components of business models.

Business plan creation. Environment and industry analysis. Description of the venture. Production / supply plan - operational plan. Marketing plan. Organization plan. Risk evaluation.

Sources and methods of financing companies at the beginning of business. Own sources of financing. Other sources of financing. Venture capital funds. Business Angels. Crowdfunding. Financing with EU funds. Financing through commercial banks.

Creating a financial plan. Basics of financial reporting. Business and capital budget. Pro forma income statement. Pro forma cash flow. Pro forma balance sheet. Break-even point analysis. Pro forma sources and funding approval requests.

Start-ups. How to choose the most appropriate form of business? Networks, professional advisers, professional services. What is coworking?

Stages and procedures for company registration.

Business analysis based on financial indicators. Key business activity indicators. Key indicators of business profitability. Liquidity and solvency indicators.

Business sustainability and growth assumptions. Performance indicators related to creation of new value. SWOT analysis. Balanced Scorecard model. Performance measurements.

Brand development and strategy. Brand and name selection. Authenticity and personality. Affection and meritocracy. Incubators and accelerators. Lifetime and customers value. Entrepreneurial strategy.

Team development. The importance of forming a good team. Goals and motivation. Hiring key staff.

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

Attending classes, writing and presenting seminars, passing exams (continuous assessment) and passing final exam.

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1.8. Assessment[1] of Learning Outcomes

Course attendance	0,25	Class participation		Seminar paper	0,75	Experiment	
Written exam	1,5	Oral exam		Essay		Research	
Project		Continuous Assessment	2,5	Presentation		Practical work	
Portfolio							

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

Assessment is done by conducting two exams (continuous assessment), writing and presenting a seminar paper and taking the final exam.

1. *Define the concept of entrepreneurship*
2. *Describe the stages that the entrepreneur is going through in order to conduct the entrepreneurial venture*
3. *Define the term brainstorming*
4. *Explain the basic features of business models*
5. *Specify what the business plan summary should include*
6. *List the stages of registration of a limited liability company*
7. *Explain how businesses can be financed*

1.10. Main Reading

1. Robert D. Hisrich, Michael P. Peters, Dean A. Shepherd – Poduzetništvo
2. Marica Škrtić, Mihaela Mikić: Poduzetništvo, Sinergija nakladništvo, Zagreb, 2011.

1.11. Recommended Reading

1. Vinko Belak – Analiza poslovne uspješnosti, RRiF-plus d.o.o. za nakladništvo i poslovne usluge, 2014.

1.12. Number of Main Reading Examples

Title	*Number of examples*	*Number of students*
Robert D. Hisrich, Michael P. Peters, Dean A. Shepherd – Poduzetništvo	11	
Marica Škrtić, Mihaela Mikić: Poduzetništvo, Sinergija nakladništvo, Zagreb, 2011.	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.

[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	Biserka Rukavina, PhD		
Course	Maritime transport law		
Study Programme	Logistic and Management in Maritime Industry and Transport		
Level	Undergraduate degree programme		
Type of Course	Elective		
Year of Study	3.		
Estimated Student Workload and Methods of Instruction	ECTS coefficient of Student Workload		4
	Number of Hours (L+E+S)		3+ 0 + 0

1. 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

1. Legal sources and division of maritime private law.
2. Ship's proprietary rights (rights of ownership, mortgages, maritime liens).
3. Persons in maritime trading operations (charterer, shipper, consignee, maritime agent, freight forwarder, stevedores, operator and shipowner; insurer).
4. Bareboat charter.
5. Contracts for the exploitation of ships - term and systematic.
6. Contracts for the carriage of goods by sea (types, main characteristics, basic obligations).
7. Transport documents.
8. Liability of the carrier; general limitation of liability in the maritime business.
9. Maritime insurance (term, legal sources, maritime insurance contract, insurance of goods, insurance of ships, characteristics of P&I clubs).

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 Obligations

Class attendance.
Practical work (Power Point presentation).
The colloquiums.
Final exam.

1.8. Assessment[1] of Learning Outcomes

Course attendance	1,5	Class participation		Seminar paper	0,5	Experiment	
Written exam	1	Oral exam		Essay		Research	
Project		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.

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).
Practical work/seminar paper (15 points).
Final 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.

1.10. Main Reading

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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.

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3.2. Course description

Generic information		
Head of Course	Assist. prof. Livia Maglić, phD	
Course	Cargo handling equipment	
Study Programme	Logistic and Management in Maritime Industry and Transport	
Level	Undergraduate	
Type of Course	Elective	
Year of Study	3rd	
Estimated Student Workload and Methods of Instruction	ECTS coefficient of Student Workload	5
	Number of Hours (L+E+S)	45+0+0

1. GENERAL COURSE DESCRIPTION

1.1. Course Objectives

The goal of the course is to familiarize students with the material handling equipment and their exploitation features depending on the type of cargo and handling techniques.

1.2. Prerequisites for Course Registration

None.

1.3. Expected Learning Outcomes

1. Define the basic terms of transport, transfer, transshipment, material handling equipment.
2. Explain the role and importance of material handling equipment in the transport process.
3. Classify material handling equipment by type of cargo and technological process of transshipment.
4. Explain and determine the factors determining the exploitation characteristics of the material handling equipment.
5. Compare and give an example of the application of types of material handling equipment, depending on the technological process of transshipment.
6. Explain how to evaluate, select and determine the required number of material handling equipment.
7. Comprehend and explain the importance of the safety aspect during operations with particular material handling equipment.
8. Determine the productivity, operating class, stability, and a load of material handling equipment.

1.4. Course Outline

Definition of terms of transport, transfer, and transshipment. Types and basic features of transshipment. The productivity of the material handling equipment. Determination of the operating class, safe working load and working speeds of material handling equipment. Cargo lifting gears for handling loads. Documentation, inspection, and testing of material handling equipment. Safety management of material handling equipment.

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. Assessment[1] of Learning Outcomes

Course attendance	1,5	Class participation		Seminar paper		Experiment	
Written exam		Oral exam	1,0	Essay		Research	
Project	1,0	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

- 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, 2010.
- 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.

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.

[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	**Full professor Damir Zec, Ph.D** **Associate professor Siniša Vilke, Ph.D.**	
Course	**Transport safety**	
Study Programme	**Logistic and management in maritime industry and transport**	
Type of Course	Elective	
Year of Study	2	
Estimated Student Workload and Methods of Instruction	ECTS coefficient of Student Workload	5
	Number of Hours (L+E+S)	45 + 15

1. 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

1. To discuss the regulations on international and national transport safety and safety at work
2. To explain occupational safety requirements and describe safeguards in shipboard and port work
3. To explain the principles and measures aiming to ensure safe port operations
4. To classify dangerous goods and explain procedures for the dangerous goods transport
5. To understand the principles of port safety
6. To interpret the application of different forms of ITS applicable in land transport safety
7. To interpret time intervals and intersection signal phases and to identify traffic conflict areas on intersection examples
8. 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.

1.5. Modes of Instruction	X Lectures X Seminars and workshops X Exercises ☐ E-learning ☐ Field work	X Practical work ☐ Multimedia and Network X Laboratory ☐ Mentorship ☐ 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. Assessment[1] 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.

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

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	Assoc. Prof. Borna Debelić, PhD		
Course	Strategic Management		
Study Programme	Logistic and Management in Maritime Industry and Transport		
Level	Undergraduate degree programme		
Type of Course	Required		
Year of Study	3	VI	
Estimated Student Workload and Methods of Instruction	ECTS coefficient of Student Workload		4
	Number of Hours (L+E+S)		2+1+0

1. GENERAL COURSE DESCRIPTION

1.1. Course Objectives

Introduction to relevant aspects of modern theory of strategic management, practical process of strategic management and its stages, especially environmental analysis, setting the direction of the organization, formulating strategies, implementing strategies, control and evaluation of strategies, and feedback in strategic management.

1.2. Prerequisites for Course Registration

No additional prerequisites

1.3. Expected Learning Outcomes

1. Explain the elements and relationships in the strategic management system
2. Highlight and explain the possibilities of applying strategic management
3. List and interpret the parts of the environment and the way of conducting the analysis of the environment
4. Explain the business mission, vision and goals
5. List and explain the approaches in formulating the strategy
6. Describe and explain the principles and content of strategy implementation
7. State and interpret strategic control

1.4. Course Outline

Introduction to strategic management
Environmental analysis
Setting mission, vision, and goals
Formulation of strategy
Strategy implementation
Strategic control

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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

1. Attending classes
2. Actively participate in classes
3. Study, research and solving tasks
4. Colloquiums
5. Final exam

1.8. Assessment[1] of Learning Outcomes

Course attendance	0,5	Class participation	0,5	Seminar paper		Experiment	
Written exam	1	Oral exam	1	Essay		Research	
Project		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

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. List and discuss the elements and relationships in a strategic management system (Learning Outcome 1)
2. State and explain the possibilities of applying strategic management (Learning Outcome 2)
3. Describe the parts of the environment and indicate the methods of conducting the environmental analysis (Learning Outcome 3)
4. Describe and explain the principles and approaches in creating a business mission, vision and goals (Learning Outcome 4)
5. List the approaches in formulating a strategy and explain the advantages and disadvantages of each one (Learning Outcome 5)
6. Explain and describe the principles and content of strategy implementation (Learning Outcome 6)
7. List the elements and explain the strategic control process (Learning Outcome 7)

1.10. Main Reading

1. Buble M., et al. (2005). Strateški menadžment. Zagreb: Sinergija d.o.o.
2. Mencer I. (2003). Strateški menadžment i poslovna politika. Rijeka: Vita-graf d.o.o.

1.11. Recommended Reading

1. Buble, M. (2006). Osnove menadžmenta. Zagreb: Sinergija d.o.o.
2. Sikavica, P., Bahtjarević- Siber, F.,Vokić Pološki, N. (2008). Temelji menadžmenta. Zagreb: Školska knjiga.
3. Sikavica, P., Bahtijarević-Šiber, F. (2004). Menadžment. Zagreb: Masmedija d.o.o.
4. Buble M. (2000). Menadžment. Split: Ekonomski fakultet.
5. Nicholas, C. S. (1995). Menadžment malih poduzeća. Zagreb: Mate d.o.o.
6. Sikavica, P., Bahtijarević-Šiber, F. (2001). Leksikon menadžmenta. Zagreb: Masmedija d.o.o.

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	dr. sc. Edvard Tijan		
Course	Student practice (internship)		
Study Programme	Logistics and Management in Maritime Industry and Transport		
Level	undergraduate		
Type of Course	elective		
Year of Study	3rd		
Estimated Student Workload and Methods of Instruction	ECTS coefficient of Student Workload		4
	Number of Hours (L+E+S)		0 + 60 + 0

1. GENERAL COURSE DESCRIPTION

1.1. Course Objectives

The student tests and complements his / her own professional knowledge with a complete overview of the work process.

1.2. Prerequisites for Course Registration

None

1.3. Expected Learning Outcomes

- Apply the acquired knowledge and skills obtained from the content of the completed courses.
- Gain work process experience.
- Develop and deepen competencies for solving specific professional tasks.

1.4. Course Outline

Professional practice at undergraduate university study is performed individually in a working organization (company) whose activity is in the field of student studies, in which there are jobs in accordance with the Rules of Practice and the content of the study curriculum. As part of the professional practice, the student becomes acquainted with the appropriate jobs for which the student is trained through educational programs, and with the task of checking and supplementing student's own professional knowledge, with a complete overview of the work process.

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

Professional practice (15 working days, or 120 hours), and preparation of reports of completed practice in a written form.

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1.8. Assessment[1] of Learning Outcomes

Course attendance		Class participation		Seminar paper		Experiment	
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

Students' commitment and activity, as well as the preparation of reports on completed practice, are evaluated.

1.10. Main Reading

None

1.11. Recommended Reading

None

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 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).

[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	dr. sc. Edvard Tijan	
Course	Student practicum	
Study Programme	Logistics and Management in Maritime Industry and Transport	
Level	undergraduate	
Type of Course	elective	
Year of Study	3rd	
Estimated Student Workload and Methods of Instruction	ECTS coefficient of Student Workload	4
	Number of Hours (L+E+S)	0 + 60 + 0

1. GENERAL COURSE DESCRIPTION

1.1. Course Objectives

The aim of the course is to improve students' knowledge and business competencies through simulating business processes in the form of workshops. Through various simulations, students have the opportunity to show how skilled they are in the practical application of the acquired knowledge in the field of maritime transport and logistics.

1.2. Prerequisites for Course Registration

None

1.3. Expected Learning Outcomes

- Apply different procedures in business processes in the field of maritime transport and logistics: planning and managing the processes of cargo transhipment, loading and stacking of cargo, managing of transhipment means and technological processes, booking of a ship and cargo, performing the duties of a shipping agent, filling out and issuing electronic transport documents, running a logistic warehouse, using electronic ship and cargo databases, etc.
- Connect individual interdependent business processes with respect to the functionality of the maritime, port and transport systems and transport logistics.
- Apply the existing knowledge acquired during the study and improve their own knowledge of the way they are implemented in work processes and evaluate the importance of individual competencies on the functionality of the process and performance.

1.4. Course Outline

The student gets acquainted with the relevant tasks in the field of maritime transport and logistics, completes and tests his own professional knowledge related to understanding business 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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1.7. Student Obligations

1. attendance at exercises
2. seminar paper (ppt presentation)
3. final exam

1.8. Assessment[1] of Learning Outcomes

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

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

Students' dedication and activity at the workshops and seminar paper are evaluated.

1.10. Main Reading

None

1.11. Recommended Reading

None

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 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).

[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, PhD, Associate professor		
Course	**English language 1**		
Study Programme	Maritime Logistics and Management		
Level	Undergraduate degree programme		
Type of Course	Core		
Year of Study	1st		
Estimated Student Workload and Methods of Instruction	ECTS coefficient of Student Workload		3
	Number of Hours (L+E+S)		1+2+0

1. GENERAL COURSE DESCRIPTION

1.1. Course Objectives

Course objectives meet the English language requirements for obtaining a B. Sc. degree in Logistics and Management in Maritime Transport and include acquiring communicative competence for effective use of English as a language of international maritime communication for the purpose of ensuring efficient business operations and management in the maritime industry.

1.2. Prerequisites for Course Registration

None

1.3. Expected Learning Outcomes

Upon completing the course the students will be able:

1. To demonstrate 4 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
2. To demonstrate specialized language knowledge and skills for the purpose of performing specialist jobs in the field of logistics and management in maritime transport
3. To express themselves in speech and in writing and discuss specialist topics in English
4. To translate specialized texts from English into Croatian and vice versa
5. To use language skills in written and verbal communication in English among different specialists in the field of maritime transport

1.4. Course Outline

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The course focuses on *content-based learning*. It applies the *communicative approach* to learning and teaching English as a Foreign Language (EFL) and English as a Second Language (ESL). The course focuses on the acquisition and practical use of: vocabulary/terminology skills (terms, polysemous words, multiple-word lexical units, collocations, lexical sets), discourse and pragmatic elements of shipping-related texts and communication, most frequent and typical grammatical structures and features restricted to maritime discourse (written and spoken) in the following areas: maritime transport industry, general seamanship, ship knowledge (types of vessels, vessel parts, manning of vessels), liner trade and tramp trade. The course stresses the importance of English in communication in international maritime trade and provides the basics of business correspondence in English.

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

1. course attendance (lectures and exercises)
2. passing two written tests
3. passing final written exam

1.8. Assessment[1] of Learning Outcomes

Course attendance	1,5	Class participation		Seminar paper		Experiment	
Written exam	0,5	Oral exam		Essay		Research	
Project		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

2 continuous assessments/test + final written exam taken together with the second assessment

1. Upon reading the text, answer the following question: What are the main characteristics of bulk carriers?

2. What are the Master's duties and responsibilities?

3. What are the main types of merchant vessels?

4. Translate the following text about vessels' structural design from English into Croatian by using the appropriate terminology.

5. Based on the following scenario, make a formal phone call …

1.10. Main Reading

1. Boris Pritchard (2001) *Maritime English 1*, Školska knjiga (selected units available online on www.moodle.srce.hr),
2. Mark Powell & Simon Clarke (2003) *In Company. Macmillan Business English* (Student's Book+ CD) – Intermediate, Macmillan Publishers
3. Peter van Kluijven (2005) *The International Maritime Language Programme*, De Alk & Heijen,
4. *MarEng Learning Tool*: http://mareng.utu.fi – selected units

1.11. Recommended Reading

1.12. Number of Main Reading Examples

Title	*Number of examples*	*Number of students*
Boris Pritchard (2001) *Maritime English 1*, Školska knjiga (selected units available on line on www.moodle.srce.hr)	Available online	55
Mark Powell & Simon Clarke (2003) *In Company. Macmillan Business English* (Student's Book+ CD) – Intermediate, Macmillan Publishers	10	55
Peter van Kluijven (2005) *The International Maritime Language Programme*, De Alk & Heijen	10	55
MarEng Learning Tool: http://mareng.utu.fi – selected units	Available online	55

1.13. Quality Assurance

Quality assurance is based on the Faculty's ISO 9001 system. Yearly analysis is carried out based on quantitative student examination data, and qualitative data based on student survey derived at the end of each semester. Furthermore, specifically to this course, all data from exams, seminars and projects are freely accessed on e-learning site by the students attending the course.

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3.2. Course description

Generic information			
Head of Course	Sandra Tominac Coslovich, PhD, Associate professor		
Course	**English language 2**		
Study Programme	Maritime Logistics and Management		
Level	Undergraduate degree programme		
Type of Course	Core		
Year of Study	1st		
Estimated Student Workload and Methods of Instruction	ECTS coefficient of Student Workload		3
	Number of Hours (L+E+S)		1+2+0

1. GENERAL COURSE DESCRIPTION

1.1. Course Objectives

Course objectives meet the English language requirements for obtaining a B. Sc. degree in Logistics and Management in Maritime Transport and include acquiring communicative competence for effective use of English as a language of international maritime communication for the purpose of ensuring efficient business operations and management in the maritime industry.

1.2. Prerequisites for Course Registration

Successful completion of English language 1 course

1.3. Expected Learning Outcomes

Upon completing the course the students will be able:

1. To demonstrate 4 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
2. To demonstrate specialized language knowledge and skills for the purpose of performing specialist jobs in the field of logistics and management in maritime transport
3. To express themselves in speech and in writing and discuss specialist topics in English
4. To translate specialized texts from English into Croatian and vice versa
5. To use language skills in written and verbal communication in English among different specialists in the field of maritime transport

1.4. Course Outline

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	The course focuses on *content-based learning*. It applies the *communicative approach* to learning and teaching English as a Foreign Language (EFL) and English as a Second Language (ESL). The course focuses on the acquisition and practical use of: vocabulary/terminology skills (terms, polysemous words, multiple-word lexical units, collocations, lexical sets), discourse and pragmatic elements of shipping-related texts and communication, most frequent and typical grammatical structures and features restricted to maritime discourse (written and spoken) regarding the following topics: types of cargo, cargo properties, carriage of goods by sea, cargo work, warehousing, picking, packing and inventory, cargo-handling equipment, ports and port structures. The course stresses the importance of English in both written and spoken communication in international maritime trade and focuses extensively on writing business e-mails.	
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		

1. course attendance (lectures and exercises)
2. passing two written tests
3. passing final written exam

1.8. Assessment[1] of Learning Outcomes

Course attendance	1,5	Class participation		Seminar paper		Experiment	
Written exam	0,5	Oral exam		Essay		Research	
Project		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

2 continuous assessments/test + final written exam taken together with the second assessment

1. *Upon reading the text, describe different types of cargo?*
2. *What are the duties and responsibilities of the Chief Officer?*
3. *What type of cargo-handling equipment is used to load and unload containers?*
4. *Translate the following text about port structures from English into Croatian using the appropriate terminology.*
5. *Based on the following scenario, use the appropriate terminology and place an order in English via e-mail.*

1.10. Main Reading

1. Boris Pritchard (2001) *Maritime English 1*, Školska knjiga (selected units available online on www.moodle.srce.hr),
2. Mark Powell & Simon Clarke (2003) *In Company. Macmillan Business English* (Student's Book+ CD) – Intermediate, Macmillan Publishers
3. Peter van Kluijven (2005) *The International Maritime Language Programme*, De Alk & Heijen,
4. *MarEng Learning Tool*: http://mareng.utu.fi – selected units

1.11. Recommended Reading

1. John Allison, Jeremy Townend (2017) *In Company 3.0 Logistics* (Student's book), Macmillan Publishers

1.12. Number of Main Reading Examples

Title	*Number of examples*	*Number of students*
Boris Pritchard (2001) *Maritime English 1*, Školska knjiga (selected units available on line on www.moodle.srce.hr)	Available online	65
Mark Powell & Simon Clarke (2003) *In Company. Macmillan Business English* (Student's Book+ CD) – Intermediate, Macmillan Publishers	10	65
Peter van Kluijven (2005) *The International Maritime Language Programme*, De Alk & Heijen	10	65
MarEng Learning Tool: http://mareng.utu.fi – selected units	Available online	65

1.13. Quality Assurance

Quality assurance is based on the Faculty's ISO 9001 system. Yearly analysis is carried out based on quantitative student examination data, and qualitative data based on student survey derived at the end of each semester. Furthermore, specifically to this course, all data from exams, seminars and projects are freely accessed on e-learning site by the students attending the course.

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3.2. Course description

Generic information			
Head of Course	Sandra Tominac Coslovich, PhD, Associate professor		
Course	**English language 3**		
Study Programme	Maritime Logistics and Management		
Level	Undergraduate degree programme		
Type of Course	Core		
Year of Study	2nd		
Estimated Student Workload and Methods of Instruction	ECTS coefficient of Student Workload		3
	Number of Hours (L+E+S)		1+2+0

1. GENERAL COURSE DESCRIPTION

1.1. Course Objectives

Course objectives meet the English language requirements for obtaining a B. Sc. degree in Logistics and Management in Maritime Transport and include acquiring communicative competence for effective use of English as a language of international maritime communication for the purpose of ensuring efficient business operations and management in the maritime industry.

1.2. Prerequisites for Course Registration

Successful completion of English language 2 course

1.3. Expected Learning Outcomes

Upon completing the course the students will be able:

1. To demonstrate 4 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
2. To demonstrate specialized language knowledge and skills for the purpose of performing specialist jobs in the field of logistics and management in maritime transport
3. To express themselves in speech and in writing and discuss specialist topics in English
4. To translate specialized texts from English into Croatian and vice versa
5. To use language skills in written and verbal communication in English among different specialists in the field of maritime transport

1.4. Course Outline

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The course focuses on *content-based learning*. It applies the *communicative approach* to learning and teaching English as a Foreign Language (EFL) and English as a Second Language (ESL). The course focuses on the acquisition and practical use of: vocabulary/terminology skills (terms, polysemous words, multiple-word lexical units, collocations, lexical sets), discourse and pragmatic elements of shipping-related texts and communication, most frequent and typical grammatical structures and features restricted to maritime discourse (written and spoken) regarding the following topics: the structure of shipping – ship's interest, cargo interest, ancillary services, shipping procedure and documents, Bill of lading – types, functions, samples, receiving and delivering cargo, tracking shipments, handling complaints, INCOTERMS, methods of payment, business correspondence regarding delivery of cargo, sending inquiries/replies, writing reports

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

1. course attendance (lectures and exercises)
2. passing two written tests
3. passing final oral exam

1.8. Assessment[1] of Learning Outcomes

Course attendance	1,5	Class participation		Seminar paper		Experiment	
Written exam		Oral exam	0,5	Essay		Research	
Project		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

2 continuous assessments/test + final oral exam

1. Describe the shipping procedure in writing
2. Explain the terms 'shipper' and 'carrier' and state the Croatian equivalents
3. Enumerate and explain the different types and functions of the Bill of lading
4. Translate the following text on brokerage from English into Croatian by using appropriate terminology
5. Use the appropriate terminology and send an inquiry to a carrier via e-mail regarding the delay in shipment

1.10. Main Reading

1. Pritchard, B. (2001) *English in Shipping and Maritime Law*. Selected units available on Merlin (moodle.srce.hr)
2. Ashley, A. (2003) *Oxford Handbook of Commercial Correspondence,* (Student's Book and Workbook). Oxford University Press
3. Jones, L. & Alexander, R. (1996) *New International Business English*, Cambridge UP

1.11. Recommended Reading

1. Allison, J, Townend, J. (2017) *In Company 3.0 Logistics* (Student's book), Macmillan Publishers
2. MarEng Plus Learning Tool: http://mareng.utu.fi – selected units

1.12. Number of Main Reading Examples

Title	*Number of examples*	*Number of students*
Pritchard, B. (2001) *English in Shipping and Maritime Law*. Selected units available on Merlin (moodle.srce.hr)	Available online	40
Ashley, A. (2003) *Oxford Handbook of Commercial Correspondence,* (Student's Book and Workbook). Oxford University Press	10	40
Jones, L. & Alexander, R. (1996) *New International Business English*, Cambridge UP	10	40

1.13. Quality Assurance

Quality assurance is based on the Faculty's ISO 9001 system. Yearly analysis is carried out based on quantitative student examination data, and qualitative data based on student survey derived at the end of each semester. Furthermore, specifically to this course, all data from exams, seminars and projects are freely accessed on e-learning site by the students attending the course.

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3.2. Course description

Generic information			
Head of Course	Sandra Tominac Coslovich, PhD, Associate professor		
Course	**English language 4**		
Study Programme	Maritime Logistics and Management		
Level	Undergraduate degree programme		
Type of Course	Core		
Year of Study	2nd		
Estimated Student Workload and Methods of Instruction	ECTS coefficient of Student Workload		3
	Number of Hours (L+E+S)		1+2+0

1. GENERAL COURSE DESCRIPTION

1.1. Course Objectives

Course objectives meet the English language requirements for obtaining a B. Sc. degree in Logistics and Management in Maritime Transport and include acquiring communicative competence for effective use of English as a language of international maritime communication for the purpose of ensuring efficient business operations and management in the maritime industry.

1.2. Prerequisites for Course Registration

Successful completion of English language 3 course

1.3. Expected Learning Outcomes

Upon completing the course the students will be able:

1. To demonstrate 4 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
2. To demonstrate specialized language knowledge and skills for the purpose of performing specialist jobs in the field of logistics and management in maritime transport
3. To express themselves in speech and in writing and discuss specialist topics in English
4. To translate specialized texts from English into Croatian and vice versa
5. To use language skills in written and verbal communication in English among different specialists in the field of maritime transport

1.4. Course Outline

The course focuses on *content-based learning*. It applies the *communicative approach* to learning and teaching English as a Foreign Language (EFL) and English as a Second Language (ESL). The course focuses on the acquisition and practical use of: vocabulary/terminology skills (terms, polysemous words, multiple-word lexical units, collocations, lexical sets), discourse and pragmatic elements of shipping-related texts and communication, most frequent and typical grammatical structures and features restricted to maritime discourse (written and spoken) regarding the following topics: charter parties, contracts of affreightment, Notice of readiness, procedures on arrival and departure at a port, logistics jobs

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

1. course attendance (lectures and exercises)
2. passing two written tests
3. passing final oral exam

1.8. Assessment[1] of Learning Outcomes

Course attendance	1,5	Class participation		Seminar paper		Experiment	
Written exam		Oral exam	0,5	Essay		Research	
Project		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

2 continuous assessments/test + final oral exam

1. Describe the ship's inward clearance procedure
2. Explain the term 'charterer' and state the Croatian equivalents
3. Enumerate and define the different types of charter parties
4. Translate the following text on logistics jobs from English into Croatian by using appropriate terms
5. How would you describe your skills and competencies at a job interview?

1.10. Main Reading

1. Pritchard, B. (2001) *English in Shipping and Maritime Law*. Selected units available on Merlin (moodle.srce.hr)
2. Ashley, A. (2003) *Oxford Handbook of Commercial Correspondence,* (Student's Book and Workbook). Oxford University Press
3. Jones, L. & Alexander, R. (1996) *New International Business English*, Cambridge UP

1.11. Recommended Reading

1. Allison, J, Townend, J. (2017) *In Company 3.0 Logistics* (Student's book), Macmillan Publishers
2. MarEng Plus Learning Tool: http://mareng.utu.fi – selected units
3. Evans, V., Dooley, J., Buchannan, D. (2016) *Logistics* (Career Paths series), Express Publishing

1.12. Number of Main Reading Examples

Title	*Number of examples*	*Number of students*
Pritchard, B. (2001) *English in Shipping and Maritime Law*. Selected units available on Merlin (moodle.srce.hr)	Available online	40
Ashley, A. (2003) *Oxford Handbook of Commercial Correspondence,* (Student's Book and Workbook). Oxford University Press	10	40
Jones, L. & Alexander, R. (1996) *New International Business English*, Cambridge UP	10	40

1.13. Quality Assurance

Quality assurance is based on the Faculty's ISO 9001 system. Yearly analysis is carried out based on quantitative student examination data, and qualitative data based on student survey derived at the end of each semester. Furthermore, specifically to this course, all data from exams, seminars and projects are freely accessed on e-learning site by the students attending the course.

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3.2. Course description

Generic information			
Head of Course	Sandra Tominac Coslovich, PhD, Associate professor		
Course	**English language 5**		
Study Programme	Maritime Logistics and Management		
Level	Undergraduate degree programme		
Type of Course	Elective		
Year of Study	3rd		
Estimated Student Workload and Methods of Instruction	ECTS coefficient of Student Workload		3
	Number of Hours (L+E+S)		1+2+0

1. GENERAL COURSE DESCRIPTION

1.1. Course Objectives

Course objectives meet the English language requirements for obtaining a B. Sc. degree in Logistics and Management in Maritime Transport and include acquiring communicative competence for effective use of English as a language of international maritime communication for the purpose of ensuring efficient business operations and management in the maritime industry.

1.2. Prerequisites for Course Registration

Successful completion of English language 4 course

1.3. Expected Learning Outcomes

Upon completing the course the students will be able:

1. To demonstrate 4 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
2. To demonstrate specialized language knowledge and skills for the purpose of performing specialist jobs in the field of logistics and management in maritime transport
3. To express themselves in speech and in writing and discuss specialist topics in English
4. To translate specialized texts from English into Croatian and vice versa
5. To use language skills in written and verbal communication in English among different specialists in the field of maritime transport

1.4. Course Outline

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The course focuses on *content-based learning*. It applies the *communicative approach* to learning and teaching English as a Foreign Language (EFL) and English as a Second Language (ESL). The course focuses on the acquisition and practical use of: vocabulary/terminology skills (terms, polysemous words, multiple-word lexical units, collocations, lexical sets), discourse and pragmatic elements of shipping-related texts and communication, most frequent and typical grammatical structures and features restricted to maritime discourse (written and spoken) regarding the following topics: marine insurance, P&I clubs, marine accidents, general and particular average, maritime 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		

1.7. Student Obligations

1. course attendance (lectures and exercises)
2. passing two written tests
3. passing final oral exam

1.8. Assessment[1] of Learning Outcomes

Course attendance	1,5	Class participation		Seminar paper		Experiment	
Written exam		Oral exam	0,5	Essay		Research	
Project		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

2 continuous assessments/test + final oral exam

1. Explain the terms general and particular average and give examples of each
2. Describe the job of an 'average adjuster''.
3. Enumerate and explain the types of loss covered by P&I insurance.
4. Translate the following extract from the Institute cargo clauses from English into Croatian using the appropriate terminology
5. Use the information given below and send a formal inquiry via e-mail about the extent of insurance cover

1.10. Main Reading

1. Pritchard, B. (2001) *English in Shipping and Maritime Law*. Selected units available on Merlin (moodle.srce.hr)
2. Ashley, A. (2003) *Oxford Handbook of Commercial Correspondence,* (Student's Book and Workbook). Oxford University Press
3. Jones, L. & Alexander, R. (1996) *New International Business English*, Cambridge UP

1.11. Recommended Reading

1. Allison, J, Townend, J. (2017) *In Company 3.0 Logistics* (Student's book), Macmillan Publishers
2. MarEng Plus Learning Tool: http://mareng.utu.fi – selected units
3. Evans, V., Dooley, J., Buchannan, D. (2016) *Logistics* (Career Paths series), Express Publishing
4. Abegg, B., Benford, M (2008) *Poslovno dopisivanje na hrvatskom i engleskom*, Masmedia/Langenscheidt

1.12. Number of Main Reading Examples

Title	*Number of examples*	*Number of students*
Pritchard, B. (2001) *English in Shipping and Maritime Law*. Selected units available on Merlin (moodle.srce.hr)	Available online	40
Ashley, A. (2003) *Oxford Handbook of Commercial Correspondence,* (Student's Book and Workbook). Oxford University Press	10	40
Jones, L. & Alexander, R. (1996) *New International Business English*, Cambridge UP	10	40

1.13. Quality Assurance

Quality assurance is based on the Faculty's ISO 9001 system. Yearly analysis is carried out based on quantitative student examination data, and qualitative data based on student survey derived at the end of each semester. Furthermore, specifically to this course, all data from exams, seminars and projects are freely accessed on e-learning site by the students attending the course.

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3.2. Course description

Generic information			
Head of Course	Sandra Tominac Coslovich, PhD, Associate professor		
Course	**English language 6**		
Study Programme	Maritime Logistics and Management		
Level	Undergraduate degree programme		
Type of Course	Elective		
Year of Study	3rd		
Estimated Student Workload and Methods of Instruction	ECTS coefficient of Student Workload		3
	Number of Hours (L+E+S)		1+2+0

1. GENERAL COURSE DESCRIPTION

1.1. Course Objectives

Course objectives meet the English language requirements for obtaining a B. Sc. degree in Logistics and Management in Maritime Transport and include acquiring communicative competence for effective use of English as a language of international maritime communication for the purpose of ensuring efficient business operations and management in the maritime industry.

1.2. Prerequisites for Course Registration

Successful completion of English language 5 course

1.3. Expected Learning Outcomes

Upon completing the course the students will be able:

1. To demonstrate 4 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
2. To demonstrate specialized language knowledge and skills for the purpose of performing specialist jobs in the field of logistics and management in maritime transport
3. To express themselves in speech and in writing and discuss specialist topics in English
4. To translate specialized texts from English into Croatian and vice versa
5. To use language skills in written and verbal communication in English among different specialists in the field of maritime transport
6. To present independently a topic from the field of logistics and management in maritime transport

1.4. Course Outline

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The course focuses on *content-based learning*. It applies the *communicative approach* to learning and teaching English as a Foreign Language (EFL) and English as a Second Language (ESL). The course focuses on the acquisition and practical use of: vocabulary/terminology skills (terms, polysemous words, multiple-word lexical units, collocations, lexical sets), discourse and pragmatic elements of shipping-related texts and communication, most frequent and typical grammatical structures and features restricted to maritime discourse (written and spoken) regarding the following topics: cargo damage, cargo claims, notes of protest, sea protest, ship management, market players in shipping

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

1. course attendance (lectures and exercises)
2. giving a presentation
3. passing a written test
4. passing final oral exam

1.8. Assessment[1] of Learning Outcomes

Course attendance	1,5	Class participation		Seminar paper		Experiment	
Written exam	0,5	Oral exam	0,5	Essay		Research	
Project		Continuous Assessment		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.

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

2 continuous assessments/test + final oral exam

1. *Describe different types of cargo damage*
2. *Explain what the letters of protest are*
3. *Explain the concept of cargo claim and translate it into Croatian*
4. *Translate the text on ship management from English into Croatian using the appropriate terminology.*
5. *Enumerate different types of payment in international trade?*
6. *Give a presentation on a chosen topic from the field of maritime transport*

1.10. Main Reading

1. Pritchard, B. (2001) *English in Shipping and Maritime Law*. Selected units available on Merlin (moodle.srce.hr)
2. Ashley, A. (2003) *Oxford Handbook of Commercial Correspondence,* (Student's Book and Workbook). Oxford University Press
3. Jones, L. & Alexander, R. (1996) *New International Business English*, Cambridge UP

1.11. Recommended Reading

1. Allison, J, Townend, J. (2017) *In Company 3.0 Logistics* (Student's book), Macmillan Publishers
2. MarEng Plus Learning Tool: http://mareng.utu.fi – selected units
3. Evans, V., Dooley, J., Buchannan, D. (2016) *Logistics* (Career Paths series), Express Publishing
4. Abegg, B., Benford, M (2008) *Poslovno dopisivanje na hrvatskom i engleskom*, Masmedia/Langenscheidt

1.12. Number of Main Reading Examples

Title	*Number of examples*	*Number of students*
Pritchard, B. (2001) *English in Shipping and Maritime Law*. Selected units available on Merlin (moodle.srce.hr)	Available online	40
Ashley, A. (2003) *Oxford Handbook of Commercial Correspondence,* (Student's Book and Workbook). Oxford University Press	10	40
Jones, L. & Alexander, R. (1996) *New International Business English*, Cambridge UP	10	40

1.13. Quality Assurance

Quality assurance is based on the Faculty's ISO 9001 system. Yearly analysis is carried out based on quantitative student examination data, and qualitative data based on student survey derived at the end of each semester. Furthermore, specifically to this course, all data from exams, seminars and projects are freely accessed on e-learning site by the students attending the course.

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3.2. Course Description

Generic information		
Head of Course	Igor Vio, PhD	
Course	Maritime Administrative Law and Law of the Sea	
Study Programme	Logistics and Management in Maritime Industry and Transport	
Level	Undergraduate degree programme	
Type of Course	Elective	
Year of Study	3	
Estimated Student Workload and Methods of Instruction	ECTS Coefficient of Student Workload	4
	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.

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 semi-enclosed 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.

1.5. Modes of Instruction	☒ Lectures	☐ Practical work
	☐ Seminars and workshops	☐ Multimedia and Network
	☐ Exercises	☐ Laboratory
	☐ E-learning	☐ Mentorship
	☐ Field work	☐ Other _____

1.6. Comments	

1.7. Student Obligations

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. Assessment[1] of Learning Outcomes

Course attendance	1,5	Class participation		Seminar paper	0,5	Experiment	
Written exam	1,0	Oral exam		Essay		Research	
Project		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.

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 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)	45
Pomorsko ratno pravo	Sufficient (in library and book shop)	45
Pomorsko upravno pravo	Sufficient (in library and book shop)	45

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.