**General information**

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| Course title: | **Applied Logistics** |
| ISVU[[1]](#footnote-1) course code: | 38306 |
| Studies in which the course is taught: | Management |
| Course Instructor: | Darko Rendulić, PhD |
| Course Assistant: | - |
| ECTS credits: | 5 |
| Semester of the course execution: | IV |
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| Academic year: | 2022/2023 |
| Exam prerequisites: | - |
| Lectures are given in a foreign language: | English |
| Aims: | The aim of the course is to acquaint students with the basics in the field of logistics, with particular emphasis on the economic  effects of the complex application of logistics procedures in  Croatian entrepreneurial practice. |

**Course**

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| Course structure | Number of contact hours per week: | Number of contact hours per semester: | Student’s requirements by type of teaching: |
| Lectures: | 2 | 30 | attendance at 60% (50%) |
| Tutorials: | 2 (1,5) | 30 (27) | attendance at 60% (50%) |
| Practical (lab) sessions: |  |  |  |
| Seminars: | (0,5) | (3) | attendance at 60% (50%) |
| Field work: |  |  |  |
| Other: |  |  |  |
| TOTAL: | 4 | 60 |  |

**Monitoring of students' work, knowledge evaluation and learning outcomes**

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| Formation of the grade during the implementation of teaching:  (Define from minimum 5 to maximum 10 learning outcomes) | **LEARNING OUTCOMES**  (upon completion of the course the student should be able to:) | **FACTORS AFFECTING THE GRADE** (e.g. term paper, practical work, presentation, ...) | **MAXIMUM NUMBER OF POINTS PER FACTOR** |
| **I 1: Explain terms, division and basic functions of the logistics and its role in the business** | presence at lectures, overviews, essays | active  presence at  lessons 10 pts  continuous  tests  (overviews)  40 pts  essay 10 pts  teamwork on  example 10 pts  presentation  with  discussion 30 pts |
| **I 2: Recognize specifics of logistics activities within business functions of the**  **company and/or supply chain** | presence at lectures, overviews, essays |
| **I 3: Distinguish organization concepts of realization of the logistics function within other business functions of the company and/or supply chain** | presence at lectures, overviews, essays |
| **I 4: Evaluate effects of optimizing logistics activities through stock optimization, transport and other factors in context of business** | presence at lectures, overviews, essays |
| **I 5: Explain importance and role of the contemporary information technologies in logistics** | presence at lectures, overviews, essays |
| **I 6: Recommend efficient changes in logistics of the considered range** | presentation of own examples |
| Alternative formation of the grade  ( I 1 – I 10) | **or alternative formation of the grade: I1 - I6**   * **Composition – own practice example 20pts** * **Exam 80pts**   **Through the semester students submit 5 overviews of the previous lectures. No outcomes. Regular presence at lectures noted.** | | TOTAL: 100 points |
| Students' competencies | Students will gain general and specific competences needed for execution tasks in logistics. They  will be individually able to define position, valuate weak points and suggest improvements of the  logistics of the focal company according to its business understanding specifics of the logistics in  the environment (home. EU, WTO...) | | |

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| Prerequisites for course approval (lecturer’s signature): | 60% attendance at lectures or seminar |
| Prerequisites for taking exams: | >40% of the pts or seminar |
| Grading scale: | (According to the Regulations on student assessment of Karlovac University of Applied Sciences, Article 9, Paragraph 5) 90-100 - excellent (5) (A) 80 to 89.9 - very good (4) (B) 65 to 79.9 - good (3) (C) 60 to 64.9 - sufficient (2) (D) 50 to 59.9 - sufficient (2) (E) 0 to 49.9 – fail (1) (F)  Students are graded during class, what forms 60% of final exam. Students who achieve 50% (35 points) and more are allowed to take the final exam. The score on final exam makes 40% of the final grade. |

**ECTS structure**

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| ECTS credits allocated to the course reflect the total burden to the student during adoption of the course content. Total contact hours, relative gravity of the content, effort required for exam preparation, as well as, every other possible burden are taken in account: | | | | | |
| **Attendance (active participation)** | **Term paper** | **Composition** | **Presentation** | **Continuous assessment and evaluation** | **Practical work** |
| **0,5** |  | **0,5** | **1,5** | **2** |  |
| **Independent work** | **Project** | **Written exam** | **Oral exam** | **Other - essay** | |
| **0,5** |  |  | **(4)** | **(1)** | |

**Review of topics/units per week associated with learning outcomes**

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| Week | Lectures topics/units and learning outcomes: | Tutorials topics/units and learning outcomes: |
| 1. | The concept and development of logistics. Tasks and  the meaning of logistics. Scientific research methods  in logistics. Strategic importance of logistics. | Introduction to the concept of logistics and scope of  activities: I1 |
| 1. | Need to introduce business logistics. Basis of logistic conception. | Introduction to the business process and the role of  internal and external logistics and the concept: I2 |
| 1. | Logistics within business functions. | Identifying process dependency and logistical  support for business: I3 |
| 1. | Organization of logistics function. | Recognizing the peculiarities of sub-contracting  organization and deployment of logistics functions: I3 |
| 1. | Relationship between logistics and other functions. | Recognizing organizational constraints in  performing logistics functions: I3 |
| 2. | Purchasing process (material management,  purchasing, procurement, sourcing, supply  management). | Distinguishing basic concepts in the procurement  process and the procurement function: I3 |
| 2. | Supply Chain and Supply Chain Management -  Logistic Value Chains. | Understanding the context, advantages and  disadvantages of the supply chain: I3 |
| 2. | Logistics processes and logistics systems. Analysis, design and implementation of logistics system. | Analysis of business process in relation to logistics  (sub) system, proposed improvement: I6 |
| 2. | Logistics companies. Transportation systems. Storage and inventory policy. Manipulation of goods. | Stock optimization and consequently transportation and handling of goods: I4 |
| 2. | Cooperation of logistics companies. International logistics systems. | Understanding the international context of business, shipping and logistics systems: I3 |
| 3. | Information technology to support logistics  management - ERP. | Understanding the functioning of ERP and EDI  systems in enterprise / supply chain logistics  management: I5 |
| 3. | Information and communication systems. Logistics Information System - LIS. | Understanding the usefulness of applying modern  IT in logistics: I5 |
| 3. | Information flows in procurement, sales and storage processes. | Overview of individual types of insurance  marketing and physical distribution channels in  various INCOTERMS parities: I4 |
| 3. | The necessity of applying modern information  technology in logistics. | Understanding the technical and technological  reach of modern information technology  applications: I5 |
| 3. | Logistics and Innovative Management - SCM by IT | Understanding Supply Chain Relationships and  Matching Using Modern ICTs: I6 |

**References**

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| REFERENCES (compulsory/additional): |
| • Segetlija Z., Uvod u poslovnu logistiku, Ekonomski fakultet Osijek, 2002.   * Segetlija Z. i Lamza-Maronić M., Distribucijski sustav trgovinskoga poduzeća, Ekonomski fakultet Osijek, 2000.   • Šamanović J., Logisitčki i distribucijski sustavi, 1999.  • Ferišak V., Nabava, VF1, 2002.  • Garača Ž., ERP sustavi, Ekonomski fakultet u Splitu, 2009.  • Luić Lj., Informacijski sustavi, VuKa, 2009.  • Cristopher M., Logistics and Supply Chain Management, Prentice Hall, 2005.  • Stock J.R. i Lambert M., Strategic Logistics Management, Irwin, NY, 2001.   * Mrnjavac, Edna, Logistički menadžment u turizmu, Fakultet za menadžment u turizmu i ugostiteljstvu Sveučilišta u Rijeci, 2010. * Magaš, Dragan, Destinacijski menadžment – modeli i tehnike, Fakultet za menadžment u turizmu i ugostiteljstvu Sveučilišta u Rijeci, 2008. * Rogić, Kristijan, UPRAVLJANJE SKLADIŠNIM SUSTAVIMA, Sveučilište u Zagrebu, Fakultet prometnih znanosti, Zagreb 2018. * Šerić, Neven i Luetić, Ante, SUVREMENA LOGISTIKA – Upravljanje logistikom u poslovanju poduzeća, webknjižara, Split, 2016.   • Čišić, Dragan, Upravljanje zalihama, Pomorski fakultet Sveučilišta u Rijeci, Rijeka, 2017.  • Jacobs, Robert F. i Chase, Richard B., UPRAVLJANJE OPERACIJAMA I LANCEM OPSKRBE, MATE, 2018. |

**Exams for the academic year: 2022/2023**

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| Exam dates: | According to the schedule of exams for academic year 2022/2023 |

**Contact information**

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| 1. Course Instructor/Lecturer: |  |
| e-mail: | [darkorendulic1@gmail.com](mailto:darkorendulic1@gmail.com); 098246868 |
| Office hours / Consultations: | upon notice one hour before the class, according to the schedule of lectures by email or after lectures and exercises |
| 2. Course Instructor/Lecturer: |  |
| e-mail: |  |
| Office hours / Consultations: |  |

1. ISVU – Information System of Higher Education Institutions in Croatia [↑](#footnote-ref-1)