

RTU Course "Logistics (study project)"**22000 Faculty of Engineering Economics and Management****General data**

Code	IV0154
Course title	Logistics (study project)
Course status in the programme	Compulsory/Courses of Limited Choice
Responsible instructor	Alla Starčenko
Academic staff	Dmitrijs Solovjovs Aleksandrs Kotlars Igors Suhoverhovs
Volume of the course: parts and credits points	1 part, 3.0 credits
Language of instruction	LV, EN
Annotation	Within the study course, students develop a study project on one of the topics about business logistics, using their knowledge of stock management, warehouse processes management, transportation processes management, statistics, data analysis, research process and other knowledge, skills and competencies previously acquired in other study courses.
Goals and objectives of the course in terms of competences and skills	The aim of the study course is to develop students' ability to integrate and apply acquired theoretical knowledge and practical skills in logistics and logistics processes, including their management in practice and the analysis of specific situations. Course Objectives 1. To develop the ability to identify and define existing problems in the field of logistics, analyze the current situation, design solutions, and evaluate their effectiveness by applying theoretical knowledge of the field and data analysis methods. 2. To foster collaboration and teamwork skills through the organization of task distribution and ensuring the effective completion of assignments within the set deadlines. 3. To enhance skills in presenting and defending the results of the developed study project with well-founded arguments, as well as in justifying research conclusions and proposed solutions.
Structure and tasks of independent studies	The study project on relevant logistics topics envisages additional research of recommended literature, compilation, analysis and evaluation of statistical information. Students evaluate logistics processes in companies, substantiate problems and develop proposals for improvement of logistics processes. At the end of the study course the results of the study project are presented and defended. Study project work is organized in groups (2-6 students in each) and have discussions during the consultations.
Recommended literature	Obligātā/Obligatory: 1. Metodiskie norādījumi bakalaura profesionālo studiju programmai Uzņēmējdarbības loģistika, SESTEL katedras darba grupa, RTU, Rīga, 2022. 2. Studiju un noslēguma darbu noformēšanas metodiskie norādījumi (2016). Aut.kol. I.Lapiņas vadībā. RTU Inženierzinātņu un ekonomikas vadības fakultāte, Rīga: RTU izdevniecība. 47 lpp. Papildu/Additional: 1. Alp Ustundag, Emre Cevikcam, Omer Faruk Beyca (2022) Business Analytics for Professionals. Cham, Switzerland : Springer, 481 p. 2. Richards, Gwynne (2022). Warehouse management : the definitive guide to improving efficiency and minimizing costs in the modern warehouse. London: Kogan Page Limited. 523 p. 3. Daniel Stanton (2021) Supply Chain Management For Dummies. Hoboken, NJ : John Wiley & Sons, 348 p. 4. Christopher, Martin (2016). Logistics & supply chain management. Harlow England: Financial Times Prentice Hall. 310 p. 5. Richards, Gwynne. (2015). Warehouse management: a complete guide to improving efficiency and minimizing costs in the modern warehouse. London: Kogan Page Limited. 427 p. 6. Spracmanis, N. (2003). Biznesa loģistika. Rīga: Vaidelote. 360 lpp. 7. Praude, V., Beļčikovs, I. (2003). Loģistika. Rīga: Vaidelote. 540 lpp. 8. Krūmiņš, N. (2004). Rokasgrāmata loģistikas sistēmas vadīšanai. Rīga: LR Ekonomikas Ministrija. 153 lpp. 9. Kleinbaum David. G, Mitchell Klein, and E. Rihl Pryor. Logistic Regression (3rd Edition), 2007. 10. Murray M. Understanding the SAP Logistics Information System (LIS).- 2007. 11. Baudin M. Lean Logistics: The Nuts And Bolts Of Delivering Materials And Goods. 2005. 12. Brandimarte Paolo and Zotteri Giulio. Introduction to Distribution Logistics (Statistics in Practice). 2007. 13. Ghiani G., Laporte G., Musmanno R. Introduction to Logistics Systems Management, 2013. 14. Yalaoui, A., Chehade H., Yalaoui F., Amodeo L. Optimization of Logistics, 2012. 15. John J.Coyle, Edward J. Bardi, C.John Langley, Jr. The Management of Business Logistics, (5-th Edition), West Publishing Company, 1992. 16. Ballou R.H. Business Logistics/ Supply Chain Management, 2004.
Course prerequisites	Knowledge of Microeconomics, Fundamentals of Logistics, Logistics.

Course contents

Content	Full- and part-time intramural studies		Part time extramural studies	
	Contact Hours	Indep. work	Contact Hours	Indep. work
Planning, development and defence of a study project-introductory lecture.	2	2	2	4
Submission of the study project themes and establishment of student groups.	2	6	2	4
Consultations during development of the project.	8	10	8	14
Report on the progress of study project development – 60% (goal, objectives, characterization of the chosen theme, description of logistics processes, description of the analysed company).	6	10	2	14
Report on the progress of study project – 90% (analysis of problem situations, problem definition and economically justified proposals, application of logistics techniques and methods).	6	10	2	16
Submission of the study project, preparing the presentation	4	4	2	2
Defence of the study project.	4	4	2	4
Total:	32	46	20	58

Learning outcomes and assessment

Learning outcomes	Assessment methods
Able to describe the principles of logistics theory, collect necessary information (questioning, interviewing, visiting the enterprise, working with literature, etc.), able to use the acquired knowledge in making economically justified decisions and developing solutions in problematic situations.	The first interim assessment scheduled during the course of the study project development
Able to evaluate logistics processes in the analysed company (the location of logistics facilities, the company's customer service level, the inventory management system, raw materials and finished products storage process). Able to express own thoughts according to the requirements, work in teams	The second interim assessment scheduled during the course of the study project development
Able to demonstrate understanding of the obtained analytical results, possible solutions of different practical situations.	The study project, its defence.
Able to demonstrate understanding of the obtained analytical results, possible solutions of various practical situations, publicly defend, explain and justify them.	The study project, its defence.

Evaluation criteria of study results

Criterion	%
Intermediate examination	10
The study project (Study project coordinator's assessment)	40
Presentation, defence (Evaluation of the study project Defence Commission)	50
Total:	100

Study subject structure

Part	CP	Hours			Tests		
		Lectures	Practical	Lab.	Test	Exam	Work
1.	3.0	16.0	16.0	0.0			*