



COURSE UNIT (MODULE) DESCRIPTION

Course unit (module) title	Code
TRANSPORT ECONOMICS AND LOGISTICS	

Lecturer (s)	Department where course unit (module) is delivered
Coordinator: Gintarė Stankūnienė	Institute of Social Sciences and Applied Informatics Kaunas Faculty Muitinės St 8, LT-44280 Kaunas, Lithuania

Study Cycle	Type of the course unit (module)
First cycle	Optional course

Mode of delivery	Period when the course unit (module) is delivered	Language of instruction
Face-to-face and via online communications (e-mail, etc.)	Semester 3	English

Requirements for students	
Prerequisites: Microeconomics, Macroeconomics	Additional requirements (if any): —

Course (module) volume in credits	Total student's workload	Contact hours	Self-study hours
5	133	52	81

Purpose of the course unit (module): programme competences to be developed

To gain knowledge about the possibilities of economic evaluation of the transport sector and to understand the essence of modern logistics, to be able to apply macro and microeconomic knowledge in the transport economy, to identify and evaluate the possibilities of logistics companies in the context of a common transport economy.

Learning outcomes of course unit	Teaching and learning methods	Assessment methods
Know the principles of the general transport economy (organization, planning and forecasting of the transport services process, peculiarities of the economy of individual modes of transport) using the latest information search capabilities.	Problem teaching, demonstration, active learning methods (group discussion), research methods (information search, preparation of a report), focusing on the general economy of the transport system.	Examination Assessment of written work
Will be able to identify problems in the transport sector and development prospects. Understand the fundamentals of strategic planning of transport companies and the necessity of information management in the transport system.	Problem-based teaching, active learning methods (group discussion), research methods (information search, preparation of independent writing work).	Examination Assessment of written work
Understand the essence of modern logistics, will be able to determine the principles of logistics system formation, possibilities and ways of optimizing the costs of logistics services in the context of the overall economy of the country.	Problem-based teaching, active learning methods (group discussion), research methods (information search, preparation of independent writing work).	Examination Assessment of written work

Will be able to study the activities of modern logistics companies, assessing the quality of services, cost and technological systems. Will be able to independently analyze the activities of the international logistics channel, determine the channel level and the international logistics channel intermediaries, assessing the effectiveness of their activities.	Problem-based teaching, active learning methods (group discussion), research methods (information search, preparation of independent writing work).	Assessment of written work
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Course content: breakdown of the topics	Contact work hours							Self-study work: time and assignments	
	Lectures	Tutorials	Seminars	Exercises	Laboratory work	I/work placement	Contact hours	Self-study hours	Assignments
1. Introductory lecture. Introduction to the course, general presentation of the subject matter. Introduction to the Transport Economics and Logistics Course	2						2		
2. Historical overview of the formation and development of Lithuanian transport infrastructure. Facts, problems and development prospects of the transport sector.	2		1				3	4	Search and analysis of scientific literature on the topics provided.
3. The general economy of the transport system. Infrastructure of the transport companies. Factors determining the activities of transport companies. Transportation chains. Application of macro and microeconomic theory in the transport sector. Selection of infrastructure investments.	2		1				3	4	Search and analysis of scientific literature on the topics provided.
4. Strategic planning of transport companies. The essence of strategic planning. Mission of the company. Company strategic goals and objectives. Assessment of external and internal factors. Strategic choices.	2		1				3	4	Search, analysis, systematization and synthesis of the scientific literature on the foreseen topics, writing of self-study.
5. Competitiveness of transport services. Competitive factors in transport services. Analysis of transport markets. Vehicle market segmentation.	3		2				5	7	
6. Organization, planning and forecasting of the transport services process. Peculiarities of organizing transport services process. Planning is a management function. Creating company plans.	2		2				4	4	
7. Structure of transport companies. Organizational function, its importance in the structure of transport companies. Organizational management structures. Linear and functional subordination units in transport companies.	2		1				3	4	
8. Repetition of passed material and self-study check and evaluation	2						2	10	Analysis of lectures' material, analysis of scientific literature.
9. The essence of modern logistics. Logistics concept, sphere of operation, subjects and objects. Principles and types of logistics system functioning.	2		2				4	4	Search, analysis, systematization and synthesis of the scientific literature on

									the foreseen topics, writing of self-study.
10. International logistics services system. Principles of formation of the international logistics service system, cost of services, cost optimization and technological systems.	3		2					5	10
11. Concept of logistics channel. The essence, concept, levels, structure and intermediaries of the international logistics channel.	2		1					3	4
12. The main logistics channel mediator. International freight forwarding concept. Impact of expedition services on the international goods market.	2		1					3	4
13. Pricing of transport services. Settlement of tariffs. Application of non-deterioration method for tariff setting in transport enterprises. Demand-oriented transport tariffs. Setting of transport tariffs, focusing on the level of competition. Application of the competitive bidding method for setting tariffs. Price range and differentiated pricing options.	2		1					3	4
14. Quality of transport services. Quality in transport. Concept and concept. Quality Achievement Techniques. Quality system and the necessity of its creation.	2		1					3	4
15. Information management in the transport system. Importance of information in the transport system. Standardized data and document exchange system.	2							2	4
16. Examination			2					4	10
Total	32	2	16					52	81

Assessment strategy	Weight, %	Deadline	Assessment criteria
Written work 40.000 – 50.000 characters (spaced apart)	50	By the end of the semester	Independent written work report reflected all through the course of self-study performed. Assessed the following aspects: - The structure and scope: The written work structure is clear and logical, are all necessary components (introduction, which presents the theme, goals, objectives, methods, empirical material; teaching, which provides empirical material analysis and interpretation, conclusions), the work is a reasonable amount of (5 points); - Analysis and conclusions: analysis is very complete, the findings are based and formulated on the basis of empirical material (3 points); if the analysis was performed, but not complete, the findings are not always justified, given 1 point for a superficial analysis of the scores awarded. - Find a work style and research culture: the proper treatment of sources and quotations; wording and style to meet the requirements of scientific work (2 points).
Examination (written survey)	50	Within the deadline (according to	The survey writing consists of 10 open and closed-ended questions, each of which is rated 1 point per.

		examination schedule)	Closed questions have four answer options, one of which is correct. Selecting the correct answer, measured 1 point, wrong – 0 points.
General rating of the subject is positive only if all settlement evaluations are positive (at least 5 points).			

Author	Year	Title	Issue of a periodical or volume of a publication	Publishing place and house or web link
Compulsory reading				
Sivilevičius, H.	2012	Transporto sistemos elementai. Mokomoji knyga		Vilnius "Technika".
Vasiliauskas, A., V.	2013	Krovinių vežimo technologijos. Vadovėlis		Klaipėda. ISBN 978-9986-31-427-1
Todd Litman	2016	Evaluating Transportation Economic Development Impacts		Victoria Transport Policy Institute
Baublys, A.	2005	Transporto infrastruktūra: vadovėlis transporto specialybių studentams		Vilniaus Gedimino technikos universitetas. ISBN: 9986-05-842-2.
Urbonas, J. A.	2014	Tarptautinė logistika. Teorija ir praktika		KTU leidykla Technologija ISBN: 9955098759
Pierre David	2013	International logistics. The Management of International Trade Operations.		Cicero Books. ISBN-10: 0989490602
Palšaitis, R.	2011	Tarptautinio verslo transportinis logistinis aptarnavimas		VGTU leidykla Technika
Slišienė, G., Zaukas, G.	2013	Logistikos operacijų vadyba: mokomoji knyga		KTU leidykla „Technologija“ eISBN 978-609-02-0929-5
Optional reading				
Popovas, V.	2014	Kelių transporto įmonės veiklos ekonominio efektyvumo kompleksinio vertinimo modelio taikymo galimybės	Nr. 1 (33)	Ekonomika ir vadyba: aktualijos ir perspektyvos, p. 7-16.
	2013	Principles and Guidelines for Economic Appraisal of Transport Investment and Initiatives. Transport Economic Appraisal Guidelines.		Economic Policy Strategy & Planning Finance and Revenue
Ridwan Quaium et. all	2012	Sustainable Urban Transportation Systems		United Nations Economic and Social Commission for Asia and the Pacific and CITYNET. http://www.uncclearn.org/sites/default/files/inventory/unescap20_0.pdf
Jakubauskas, G.	2014	Strateginiai susisiekimo sektoriaus siekiai skatinant darnų judumą		Susisiekimo ministerija. https://www.unece.org/fileadmin/DAM/thepep/Workshops/2014/Improvement_of_Sustainable_Urban_Mobility_for_Better_Health_and_Environment_Move_to_Improve/G._Jakubauskas.pdf

Kontautaitė, D., Zinkevičiūtė, V.	2013	Ekspedicinių įmonių veiklos kokybės gerinimo poreikis ir galimybės	Nr. 5(1)	Mokslas – Lietuvos ateitis. p. 22-28. doi:10.3846/mla.2013.04
Zinkevičiūtė, V., vasiliauskas, A. V.	2013	Gamybos logistika gamybos vadyba. Vadovėlis.		Klaipėda. ISBN 978-9986- 31-429-5
Geoffrey Lean	2009	Sustainable transport: on the right track.		Nairobi : UNEP, 35 p. Jungtinių Tautų fondas. ISBN: 0-393-33129 -5
Pablo Coto-Millan, Vincente Inglada	2009	Essays on transport economics		Elektroninis išteklius: http://www.springerlink.com /content/t47384/ . ISBN: 3- 7908-1764-3
Martin Christopher	2007	Logistika ir tiekimo grandinės valdymas		Eugrimas ISBN: 9789955682677
Alan Rushton, Steve Walker	2007	International logistics supply chain outsourcing. From local to global.		Kogan page. ISBN: 978 0 7494 4814 1.