



COURSE UNIT (MODULE) DESCRIPTION

Course unit (module) title	Code
TRANSPORT ECONOMICS AND LOGISTICS	

Academic staff	Core academic unit(s)
Coordinator: dr. Gintarė Stankūnienė	
Other:	

Study cycle	Type of the course unit
First <input checked="" type="checkbox"/> Second <input type="checkbox"/>	Compulsory Course <input type="checkbox"/> Optional Course <input type="checkbox"/> Course Unit (Module) of the General University Studies <input type="checkbox"/> Course Unit (Module) of Individual Studies <input checked="" type="checkbox"/> Interdisciplinary Studies Course Unit (Module) <input type="checkbox"/>

Mode of delivery	Semester or period when it is delivered	Language of instruction
Face-to-face and online	Semester 3	English

Requisites	
Prerequisites: Microeconomics, Macroeconomics	Co-requisites (if relevant): -

Number of ECTS credits allocated	Student's workload (total)	Contact hours	Individual work
5	130	48	82

Purpose of the course unit		
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 the 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,	Problem-based teaching, active learning methods (group discussion), research methods (information	

possibilities and ways of optimizing the costs of logistics services in the context of the overall economy of the country.		
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

Content	Contact hours							Individual work: time and assignments	
	Lectures	Tutorials	Seminars	Workshops	Laboratory work	Internship	Contact hours, total	Individual work	Tasks for individual work
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	Search, analysis, systematization and synthesis of the scientific literature on the foreseen topics, writing of self-study.
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	5	Search, analysis, systematization and synthesis of the scientific literature on the foreseen topics, writing of self-study.
16. Examination								10	Analysis of lectures' material, analysis of scientific literature.
Total	32		16				48	82	
Note: Up to 4 contact hours may be replaced by guest lectures given by social partners or educational visits to social partner organisations.									

Assessment strategy	Weight %	Deadline	Assessment criteria
Written work 40.000 –	50	By the end of the semester	Independent written work report reflected all through the course of self-study performed.

50.000 characters (spaced apart)			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). Final assessment: the number of points collected is multiplied by 50%
Examination (written survey)	50	Within the deadline (according to examination schedule)	The survey writing consists of 20 open and closed-ended questions. Scale of evaluation from 1 to 10 points. Final assessment: the number of points collected is multiplied by 50%

REGARDING THE EXTERNAL EXAMINATION OF THE COURSE UNIT

Mark <input checked="" type="checkbox"/>				If permitted, please provide the conditions
Not permitted	<input checked="" type="checkbox"/>	Permitted	<input type="checkbox"/>	For those wishing to take the external examination of this course unit, the course assessment consists of a written work (50%), which must be submitted to the lecturer via email (or uploaded to the e-learning platform) no later than 5 days before the exam, and an exam (50%). When evaluating a written work and an exam, the same criteria are applied as when studying the subject regularly.

REGARDING THE USE OF GENERATIVE ARTIFICIAL INTELLIGENCE (GenAI) TOOLS (SUCH AS "CHATGPT", ETC.) WHEN STUDYING THE COURSE UNIT

Mark <input checked="" type="checkbox"/>				If permitted, please provide the conditions
Not permitted	<input type="checkbox"/>	Permitted	<input checked="" type="checkbox"/>	Example: "GenAI may only be used if the lecturer specifies that a particular assignment may be completed using GenAI; otherwise, it will not be graded. If the use of GenAI tools is permitted for completing assignments, the citation requirements set forth in the <u>Guidelines for the Use of Artificial Intelligence at Vilnius University</u> must be strictly followed."

REGARDING ACADEMIC PROGRESS

A student who (1) **throughout the semester consistently** fails to demonstrate **progress in achieving the expected learning outcomes of a subject (module)** during the practical classes (seminars, exercises, laboratory work, etc.) and (2) fails to complete all interim assessment requirements and tasks within the time specified in the course description, is not allowed to participate in the examination session.

Author (-s)	Publishing year	Title	Issue of a periodical or volume of a publication	Publishing house or web link
Required reading				
Gordon, C. E.	2025	Transport Economics: An Institutional, Policy, and Human Factors Approach.		Routledge Available at: https://www.routledge.com/Transport-Economics-An-Institutional-Policy-and-Human-Factors-Approach/Gordon/p/book/9781032396804

Tanvir, S.	2024	Sustainable Mobility.		Mavs Open Press Available at: https://staging.open.umn.edu/open-textbooks/textbooks/sustainable-mobility [Open access]
Rodrigue, J.-P.	2024	The Geography of Transport Systems. 6th ed.,		Available at: https://transportgeography.org/ [Open access]
Chopra, S.	2025	Supply Chain Management: Strategy,		Pearson Available at: https://www.pearson.com/en-us/subject-catalog/p/supply-chain-management-strategy-planning-and-operation/P200000012829/9780135350294
Cowie, J.	2010	The Economics of Transport: A Theoretical and Applied Perspective.		Routledge
Recommended reading				
European Environment Agency	2025	Sustainability of Europe's Mobility Systems 2025.		Available at: https://www.eea.europa.eu/en/analysis/publications/sustainability-of-europes-mobility-systems-2025 [Open access]
European Commission	2025	EU Transport in Figures: Statistical Pocketbook 2025		Available at: https://www.pearson.com/en-us/subject-catalog/p/supply-chain-management-strategy-planning-and-operation/P200000012829/9780135350294 [Open access].
Gülmez, S., Denктаş-Şakar, G.	2025	Digital Transformation Framework for Logistics Service Providers: A Systematic Literature Review		Available at: https://library.oapen.org/bitstream/handle/20.500.12657/101209/1/9781003438748_10.1201_9781003438748-4.pdf [Open access]
Innovation Agency Lithuania	2021	Overview of Lithuanian Transport and Logistics Industry.		Available at: https://inovacijuagentura.lt/site/binaries/content/assets/analityka/analytical-products-en/overview-of-lithuanian-transport-and-logistics-industry.pdf [Open access]
World Bank	2023	Connecting to Compete 2023: Trade Logistics in an Uncertain Global Economy.		Available at: https://lpi.worldbank.org/sites/default/files/2023-04/LPI_2023_report_with_layout.pdf [Open access]

NOTE: Including Open Educational Resources in the reading list is recommended