

Subject card

Subject name and code	Transport as Element of Logistic Support, PG_00209079						
Field of study	Economics						
Date of commencement of studies	October 2026		Academic year of realisation of subject			2026/2027	
Education level	Master's studies		Subject group			Obligatory subject group in the field of study Optional subject group Subject group related to scientific research in the field of study	
Mode of study	full-time studies		Mode of delivery			at the university	
Year of study	1		Language of instruction			Polish	
Semester of study	2		ECTS credits			2.0	
Learning profile	academic		Assessment form			exam	
Conducting unit	Department of Transport Policy and Economic Integration -> Faculty of Economics -> Rector						
Name and surname of lecturer (lecturers)	Subject supervisor		dr Maria Matusiewicz				
	Teachers						
Lesson types	Lesson type	Lecture	Tutorial	Laboratory	Project	Seminar	SUM
	Number of study hours	0.0	30.0	0.0	15.0	0.0	45
	E-learning hours included: 0.0						
Learning activity and number of study hours	Learning activity	Participation in didactic classes included in study plan		Participation in consultation hours		Self-study	SUM
	Number of study hours	45		0.0		5.0	50
Subject objectives	The aim of the course is to acquire knowledge related to the key role of transport in logistics processes.						

Learning outcomes	Course outcome	Subject outcome	Method of verification
	[EKONMU2_U01] can creatively interpret and explain economic and social phenomena and relations between them, using acquired knowledge of economics, finance and management sciences	The student is able to creatively interpret economic and social phenomena and analyse their mutual relationships, using knowledge of economics, finance and management.	[SU1] oral statement/conversation/discussion [SU2] presentation/project/paper/report [SU4] test/exam - oral or written [SU8] observation of student's independent or team work
	[EKONMU2_W08] has an in-depth knowledge of processes occurring in enterprises and economic organisations and with related areas, as well as of processes of change in public institutions; knows methods of research on the regularities governing these changes, taking into account the influence of external stakeholders on them	The student has advanced knowledge of the processes taking place in transport enterprises and logistics organizations and their interactions with related areas, including the ability to study institutional changes taking into account the influence of external stakeholders.	[SW4] test/exam - oral or written [SW1] oral statement/conversation/discussion [SW2] presentation/project/paper/report [SW5] implementation of a problem task
	[EKONMU2_U02] can use acquired knowledge to describe and analyse the causes and course of economic and social processes and phenomena, and can formulate his/her own opinions and critically select data and analysis methods based on the achievements of economic and social sciences	The student is able to use his/her skills to describe and analyse the causes and course of economic and social processes, formulating his/her own opinions and critically assessing data and methods of analysis.	[SU1] oral statement/conversation/discussion [SU2] presentation/project/paper/report [SU4] test/exam - oral or written [SU8] observation of student's independent or team work
	[EKONMU2_W07] has an in-depth knowledge of economic and financial principles governing the functioning and management of economic entities and organisations, as well as of systems of legal, organisational, professional, moral and ethical norms and rules organising public structures and institutions, both in the national and international spheres	The student has in-depth knowledge of the economic and financial principles of functioning and management of entities and organizations in the context of transport and logistics, including systems of legal, organizational, professional, moral and ethical norms and rules.	[SW4] test/exam - oral or written [SW1] oral statement/conversation/discussion [SW2] presentation/project/paper/report [SW5] implementation of a problem task
	[EKONMU2_U10] has an advanced ability to prepare specialist oral presentations on economic and social issues, using specialist theoretical approaches, the principles of collecting various sources of data, their description and interpretation, and drawing conclusions based on scientific literature; can prepare and conduct a debate	The student has advanced skills in preparing and presenting specialized oral presentations on topics related to transport and logistics, in Polish and a foreign language, based on scientific literature and empirical data.	[SU1] oral statement/conversation/discussion [SU2] presentation/project/paper/report [SU4] test/exam - oral or written [SU8] observation of student's independent or team work
	[EKONMU2_K02] is aware of the level of their knowledge in the area of solving complex problems in economic; understands the need to extend and update this knowledge throughout his/her life	The student has in-depth knowledge of the economic and financial principles of functioning and management of entities and organizations in the context of transport and logistics, including systems of legal, organizational, professional, moral and ethical norms and rules.	[SK1] oral statement/conversation/discussion [SK2] presentation/project/paper/report [SK4] test/exam - oral or written [SK5] implementation of a problem task [SK8] observation of student's independent or team work
	[EKONMU2_K05] correctly identifies, diagnoses and solves advanced dilemmas and alternative solutions related to the profession	The student is able to identify, diagnose and resolve professional dilemmas and propose various solutions in the context of transport and logistics activities.	[SK1] oral statement/conversation/discussion [SK4] test/exam - oral or written [SK5] implementation of a problem task [SK8] observation of student's independent or team work
	[EKONMU2_W04] has an in-depth knowledge of different types of economic and social ties and regularities governing them; has an in-depth knowledge of economic and financial ties between enterprises	The student knows the different types of economic and social ties and understands the regularities between them, having in-depth knowledge of economic and financial ties in the context of transport and logistics.	[SW4] test/exam - oral or written [SW1] oral statement/conversation/discussion [SW2] presentation/project/paper/report [SW5] implementation of a problem task

Subject contents	Transport is a key element of logistics processes, acting as a link between subsequent links in the supply chain. Its specificity is based on complementarity with other logistics activities such as warehousing or inventory management which means that the effectiveness of the entire system depends on the mutual adjustment of these elements. Choosing the right mode of transport, both technically and economically, is one of the most important challenges for logistics managers. They evaluate individual means of transport (road, rail, sea, air, inland) through the prism of speed, costs, infrastructure availability and transport capacity. Each mode of transport finds its place in the structure of the flow of goods from road transport, which dominates in short-distance deliveries, through rail and sea transport, used in mass and international transport. The transport requirements of entities in the supply chain are increasingly diverse and depend on the type of cargo, frequency of deliveries and expected flexibility, which translates into growing expectations towards transport service providers. Transport-related costs are one of the main components of total logistics costs. Therefore, optimizing the choice of means of transport has a direct impact on the economic efficiency of the company. In this context, intermodal transport is playing an increasingly important role, combining different modes of transport in a single transport process, using their advantages while reducing their weaknesses. Although this solution offers significant environmental and economic benefits, it still faces infrastructural and organizational limitations. An inherent challenge in logistics is disruptions in the supply chain resulting from unforeseen events such as delays, production interruptions or geopolitical changes which can lead to serious losses. Finally, seaports are increasingly playing the role of advanced logistics centers, offering not only transshipment services, but also storage, consolidation and distribution services, making them key points in global supply chains. 1. The specificity of transport, complementarity, and its place in logistics processes. 2. Technical and economic attractiveness of individual transport branches from the perspective of logistics managers. 3. The use of transport modes in the flow of goods processes. 4. Transport demands from entities creating supply chains towards transport service providers. 5. Costs in transport modes as a factor in logistics costs. 6. Intermodal transport in logistics chains (concept, forms, limitations). 7. Supply chain disruptions. 8. Seaports as logistics centers. Any doubts regarding the issues discussed during classes can be discussed during consultations. Students work in teams to prepare a project based on the listed topics; the project is discussed and approved during consultations with the instructor and subsequently presented in class.		
Prerequisites and co-requisites			
Assessment methods and criteria	Subject passing criteria	Passing threshold	Percentage of the final grade
	discussion	51.0%	20.0%
	own work/project presentation	51.0%	40.0%
	exam	51.0%	40.0%
Recommended reading	Basic literature	- J. Rudd, Practical Guide to Logistics, Kogan Page 2019. - M. Bąk (ed.), Transport Development Challenges in the Twenty-First Century, Proceedings of the 2015 TranSopot Conference, Springer 2016.	
	Supplementary literature	- M. Matusiewicz, Logistics of the Future Physical Internet and Its Practicality, Transportation Journal, Vol. 59, No. 2, pp. 200-214, Penn State University Press 2020.	
	eResources addresses		

Example issues/ example questions/ tasks being completed	What is the efficiency of individual transport modes? What role does transport play in logistics? What constitutes logistics activities? Competitiveness of individual transport modes Modern supply chain - challenges New logistics models.
Work placement	Not applicable

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