University of Gdańsk

Subject card

Subject name and code	Trends in Development of Logistics, PG_00199366						
Field of study	Economics						
Date of commencement of studies	October 2026		Academic year of realisation of subject		2027/2028		
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	2		Language of instruction		Polish		
Semester of study	3		ECTS credits		3.0		
Learning profile	academic		Assessment form		credit		
Conducting unit	Department of Transport Economics -> Faculty of Economics -> Rector						
Name and surname of lecturer (lecturers)	Subject supervisor		dr hab. Aleksandra Koźlak, prof. UG				
	Teachers						
Lesson types	Lesson type	Lecture	Tutorial	Laboratory	Project	Seminar	SUM
	Number of study hours	0.0	15.0	0.0	15.0	0.0	30
	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	30		0.0		45.0	75
Subject objectives	The aim of the subject is to introduce students to problems of the development directions of logistics activities - both the service offers, changes in the in the infrastructure, point infrastructure equipment, means of transport, as well as the logistical processes.						

Learning outcomes

Course outcome	Subject outcome	Method of verification
[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	E2_W04 The student knows the different types of economic and social ties, processes, phenomena, entities, structures and institutions affecting the development of the sector transport-freight forwarding-logistics sector, by preparing a project [in 3–4 person teams] related to the course, which is discussed and approved during consultations with the instructor, and subsequently presented in class.	[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	E2_U02 The student is able to use acquired knowledge to analyze the causes and progression of processes and phenomena occurring in the logistics industry, and is able to select appropriate data and methods to analyze these processes and phenomena by preparing a project [in 3–4 person teams] related to the course, which is discussed and approved during consultations with the instructor, and subsequently presented in class.	[SU2] presentation/project/paper/ report
[EKONMU2_K01] recognises the importance of knowledge in the field of economics in the process of identifying and solving economic problems and of consulting experts when having difficulties in solving them independently	E2_K01 The student recognises the importance of knowledge of economics in the process of identifying and solving logistic problems and of consulting experts in case of difficulties in solving them independently	[SK1] oral statement/conversation/ discussion
[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	E2_W08 The student has in-depth knowledge of the economic, social and ecological changes in logistic activity	[SW5] implementation of a problem task
[EKONMU2_U06] can practically apply various forms and range of acquired knowledge in economics, finance and management, supplementing it with an independent critical analysis of its efficiency and usefulness	E2_U06 The student has the ability to use in practice various forms and scope of acquired knowledge in economics, finance and management to analyse conditions and effects of applying new technological and organisational solutions in logistics, by preparing a project [in 3–4 person teams] related to the course, which is discussed and approved during consultations with the instructor, and subsequently presented in class.	[SU2] presentation/project/paper/ report [SU5] implementation of a problem task
[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	E2_K02 The student is aware of the level of his/her knowledge in the field of economics and logistics and understands the need to deepen and update this knowledge throughout life.	[SK1] oral statement/conversation/ discussion [SK5] implementation of a problem task [SK8] observation of student's independent or team work

Subject contents	1.Socio-economic megatrends determining the directions of logistics development2.Development of logistics infrastructure3.Development problems in transport4. The "greening" of transport and logistics5. Using modern technologies in logistical processes6. Development trends in city logistics Any doubts regarding the issues discussed during classes can be discussed during consultations.
Prerequisites and co-requisites	Basic knowledge of logistics and the ability to critically analyse the socio-economic environment that influences the evolution of logistics activities

Assessment methods and criteria

Subject passing criteria	Passing threshold	Percentage of the final grade
PEST analysis and SWOT analysis of a selected logistics solution	51.0%	50.0%
Analysis of selected transportation issues using the Metaplan method	51.0%	20.0%
Case study on “greening” logistics	51.0%	20.0%
Diagnosis of infrastructure condition using an indicator-based method	51.0%	10.0%

Recommended reading

Basic literature	1. A. Sikorski R. Kozłowski, Nowoczesne rozwiązania w logistyce, Wolters Kluwer, Warszawa 2019. 2.I. Dembińska, B. Tundys, M. Frankowska, M. Malinowska, Smart Logistics, edu-Libri, Kraków-Legionowo 2019 3. R.Barcik, T. Starow, Sztuczna inteligencja i technologie cyfrowe w logistyce ery Przemysłu 4.0, Zeszyty Naukowe Akademii Górnośląskiej Nr 33 (9/2025), s. 6 - 15 DOI: 10.53259/2025.09.01 4. Transport. Tendencje zmian, red. K. Wojewódzka-Król, E. Załoga, Wydawnictwo Naukowe PWN, Warszawa 2022.
Supplementary literature	1.Ekonomiczne, społeczne i środowiskowe uwarunkowania logistyki, red. J. Witkowski, A. Skowrońska, "Prace Naukowe Uniwersytetu Ekonomicznego we Wrocławiu" 2015, nr 383. 2. A. Szymonik, D. Chudzik, Logistyka nowoczesnej gospodarki magazynowej, Difin 2017. 3. D. Skurpel, Obsługa logistyczna w handlu elektronicznym. Wartość dla klienta, Wydawnictwo Uniwersytetu Łódzkiego, Łódź 2019. 4. K. Kijewska, Procesy dystrybucji w zrównoważonej logistyce miejskiej, BEL Studio, Warszawa 2016 5. A. Mężyk, S. Zamkowska, Problemy transportowe miast. Stan i kierunki rozwoju, Wydawnictwo Naukowe PWN, Warszawa 2019
eResources addresses	

Example issues/ example questions/ tasks being completed	Analysis of the environment using the PEST method and SWOT analysis for a selected logistics solution. Analysis of selected transport problems using the Metaplan method
Work placement	Not applicable

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