University of Gdańsk

Subject card

Subject name and code	Logistic Systems, PG_00199900						
Field of study	Economics						
Date of commencement of studies	October 2026		Academic year of realisation of subject		2028/2029		
Education level	Bachelor'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	part-time studies		Mode of delivery		at the university		
Year of study	3		Language of instruction		Polish		
Semester of study	5		ECTS credits		4.0		
Learning profile	academic		Assessment form		exam		
Conducting unit	Department of Logistics -> Faculty of Economics -> Rector						
Name and surname of lecturer (lecturers)	Subject supervisor		dr hab. Cezary Mańkowski, prof. UG				
	Teachers						
Lesson types	Lesson type	Lecture	Tutorial	Laboratory	Project	Seminar	SUM
	Number of study hours	10.0	10.0	0.0	7.0	0.0	27
	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	27		0.0		73.0	100
Subject objectives	1. Providing students with the concept of logistics systems 2. Presentation of the classification of logistics systems, discussion of the structures of logistics systems 3. Students acquire skills in the field of logistics systems design 4. Strengthening students' social competences through project work						

Learning outcomes

Course outcome	Subject outcome	Method of verification
[EKONL3_U02] is able to use the knowledge of theory and data to analyse concrete economic and social processes and phenomena and to analyse these phenomena using methods developed in economics, finance and management sciences	The student can use the acquired logistics knowledge and obtain data to analyze specific logistics systems and analyze them using methods created in economics, finance and management sciences applied for the needs of logistics	[SU1] oral statement/conversation/ discussion [SU4] test/exam - oral or written
[EKONL3_K03] participates in the preparation of economic and social projects, being able to reconcile legal, economic, ecological, political and social requirements	The student participates in the preparation of logistics projects. Consults on the project's assumptions and progress with the teacher during consultations and project blocks. Project blocks are included in the class schedule, and the dates and locations of consultations are published on the University of Gdańsk website.	[SK1] oral statement/conversation/ discussion [SK2] presentation/project/paper/ report
[EKONL3_W03] knows the relations between economic agents and social organisations operating in the national, international and intercultural arenas	The student has a knowledge of the relationships between economic entities and public institutions operating in the field of domestic and international logistics	[SW4] test/exam - oral or written [SW1] oral statement/ conversation/discussion

Subject contents

1. The essence of logistics systems
Concept, features and types of systems, classification criteria of logistics systems, structures of logistics systems

2. Components of logistics systems
Events. Processes. Resources. Relations. Parameters. Elements of the market environment of logistics systems

3. Methods and tools for designing logistics systems
Ontologies, architectures, standards, IT tools (Design Thinking, Sankey Scheme, Aris)

Any doubts regarding the issues discussed during classes can be discussed during consultations.

Prerequisites and co-requisites

Basic economic knowledge

Assessment methods and criteria

Subject passing criteria	Passing threshold	Percentage of the final grade
group project	51.0%	50.0%
final exam	51.0%	50.0%

Recommended reading

Basic literature	1. Chaberek M.: Makro- i mikroekonomiczne aspekty wsparcia logistycznego. Wyd. Uniw. Gdanskiego, Gdansk 2002 2. Mańkowski C.: Modelowanie procesów logistycznych. Wydawnictwo Uniwersytetu Gdańskiego, Gdańsk 2020 (Here) 3. Blaik P.: Logistyka. PWE, Warszawa 2010
Supplementary literature	1. Mańkowski C.: Synergia w logistyce. Wydw. Uniw. Gdańskiego, Gdańsk 2010 2. Twaróg J.: Koszty logistyki przedsiebiorstw. ILiM, Poznań 2003 3. Twaróg J.: Mierniki i wskaźniki logistyczne. ILiM, Poznań 2005 4. Beier F., Rutkowski K.: Logistyka. Wydaw. SGH, Warszawa 2005 5. Jacyna M., Lewczuk K., Projektowanie systemów logistycznych, PWN, Warszawa 2016 6. Czasopisma: Logistyka; Logistyka a Jakosc; Eurologistics; Gospodarka Materiałowa i Logistyka; Spedycja, Transport, Logistyka 7. Portals: www.ptl.net.pl, www.logistyka.net.pl, ariscommunity.com
eResources addresses	

Example issues/ example questions/ tasks being completed	Types of logistics systems Components of logistics systems Elements of the market environment of logistics systems Ontologies, architectures, standards, tools for designing logistics systems
Work placement	Not applicable

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