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	
	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_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	[SK4] test/exam - oral or written
[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	[SU4] test/exam - oral or written
[EKONL3_W03] knows the relations between economic agents and social organisations operating in the national, international and intercultural arenas	The student has advanced 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

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
Test	51.0%	100.0%

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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