University of Gdańsk

Subject card

Subject name and code	Logistics Systems , PG_00200402		
Field of study	Logistics and Mobility		
Date of commencement of studies	October 2026	Academic year of realisation of subject	2027/2028
Education level	Bachelor's studies	Subject group	Obligatory subject group in the field of study 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	English
Semester of study	4	ECTS credits	4.0
Learning profile	academic	Assessment form	credit
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	15.0	15.0	0.0	0.0	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	70.0	100

Subject objectives

Presenting students the concept of logistics systems. Systematizing logistics systems. Discussing the structure of logistics systems

Learning outcomes

Course outcome	Subject outcome	Method of verification
[LML3_W02] has advanced knowledge of different types of entities that require logistics support or provide logistics services	Has advanced knowledge of different types of entities that require building a logistics system. Student discusses project/doubts/ tasks etc. during consultation with the instructor.	[SW4] test/exam - oral or written [SW1] oral statement/ conversation/discussion
[LML3_K05] identifies, diagnoses and resolves correctly the dilemmas and various options for solutions, related to the performance of the profession	Correctly identifies, diagnoses and resolves dilemmas and various solution options related to the profession of a logistician	[SK4] test/exam - oral or written
[LML3_U06] uses its knowledge of economics, finance, management, logistics and mobility to resolve economic and social dilemmas arising in its professional work	Uses knowledge of economics, finance, management, logistics and mobility to solve problems related to logistics systems that arise in the professional work of a logistician	[SU4] test/exam - oral or written
[LML3_W03] has advanced knowledge of the relationship between business entities and public institutions operating in the national, international and intercultural sphere, understands the importance of logistics and mobility for their functioning	Has advanced knowledge of the logistics systems of economic entities and public institutions operating in the national, international and intercultural spheres, understands the importance of the logistics systems for their functioning	[SW4] test/exam - oral or written

<table>
<tr><td>Subject contents</td><td>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 Schema, Aris)</td></tr>
<tr><td>Prerequisites and co-requisites</td><td>Basic economic knowledge</td></tr>
<tr><td>Assessment methods and criteria</td><td><table><tr><th>Subject passing criteria</th><th>Passing threshold</th><th>Percentage of the final grade</th></tr><tr><td>Test</td><td>51.0%</td><td>100.0%</td></tr></table></td></tr>
<tr><td>Recommended reading</td><td><table><tr><td>Basic literature</td><td>1. Chaberek M.: Makro- i mikroekonomiczne aspekty wsparcia logistycznego. Wyd. Uniw. Gdańskiego, Gdansk 2002

2. Blaik P.: Logistyka. PWE, Warszawa 2010

3. Mańkowski C.: Modelowanie procesów logistycznych. Wydawnictwo Uniwersytetu Gdańskiego, Gdańsk 2020 (Tutaj)</td></tr><tr><td>Supplementary literature</td><td>1. Logistyka. Red. S. Krzyżaniak, D. Kisperska-Moroń. ILiM, Poznan 2009
2. Weiland, D., Wierzbowski, P., Logistyka informacji w Gospodarce 4.0. Wydawnictwo Uniwersytetu Gdańskiego, Gdańsk 2020 (Tutaj)
3. Mańkowski C.: Synergia w logistyce. Wydw. Uniw. Gdańskiego, Gdańsk 2010
4. Twaróg J.: Koszty logistyki przedsiebiorstw. ILiM, Poznań 2003
5. Twaróg J.: Mierniki i wskaźniki logistyczne. ILiM, Poznań 2005
6. Beier F., Rutkowski K.: Logistyka. Wydaw. SGH, Warszawa 2005
7. Jacyna M., Lewczuk K., Projektowanie systemów logistycznych, PWN, Warszawa 2016
8. Czasopisma: Logistyka; Logistyka a Jakość; Eurologistics; Gospodarka Materiałowa i Logistyka; Spedycja, Transport, Logistyka</td></tr><tr><td>eResources addresses</td><td></td></tr></table></td></tr>
<tr><td>Example issues/ example questions/ tasks being completed</td><td>Types of logistics systems

Logistics system components

Methods and tools for designing logistics systems</td></tr>
<tr><td>Work placement</td><td>Not applicable</td></tr>
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