

Subject card

Subject name and code	Logistic Systems, PG_00119133						
Field of study	Economics						
Date of commencement of studies	October 2023	Academic year of realisation of subject				2025/2026	
Education level	Bachelor's studies	Subject group					
Mode of study	full-time studies	Mode of delivery				at the university	
Year of study	3	Language of instruction				Polish	
Semester of study	6	ECTS credits				1.0	
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				
	Teachers		dr hab. Cezary Mańkowski				
Lesson types	Lesson type	Lecture	Tutorial	Laboratory	Project	Seminar	SUM
	Number of study hours	15.0	0.0	0.0	0.0	0.0	15
	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	15	0.0		0.0		15
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_U06] uses the knowledge acquired in economics, finance and management to solve economic and social dilemmas arising in the professional context	Uses knowledge of economics, finance and management to solve logistical problems that arise in the professional work of a logistician			[SU4] test/exam - oral or written		
	[EKONL3_K05] correctly identifies, diagnoses and resolves professional dilemmas and different options for solutions	Correctly identifies, diagnoses and resolves dilemmas and various solution options related to the profession of a logistician			[SK4] test/exam - oral or written		
	[EKONL3_W03] has advanced knowledge of the relations between economic agents and social organisations operating in the national, international and intercultural arenas	Has advanced knowledge of the relationships between economic entities and social organizations operating in the field of logistics			[SW4] test/exam - oral or written		
	[EKONL3_W02] has advanced knowledge of the different types of existing business entities and organisations and public institutions	Has advanced knowledge of the different types of existing logistics entities and organizations			[SW4] test/exam - oral or written		

Subject contents	<p>1. The essence of logistics systems The concept, characteristics and types of systems, classification criteria of logistics systems, structures of logistics systems</p> <p>2. Components of logistics systems Events. Processes. Resources. Relations. Elements of the market environment of logistics systems</p> <p>3. Methods and tools for designing logistics systems Ontologies, architectures, standards, IT tools (Design Thinking, Sankey Scheme, Aris)</p>								
Prerequisites and co-requisites	Basic economic knowledge								
Assessment methods and criteria	<table border="1" data-bbox="451 477 1487 544"> <thead> <tr> <th data-bbox="451 477 794 510">Subject passing criteria</th> <th data-bbox="794 477 1137 510">Passing threshold</th> <th data-bbox="1137 477 1487 510">Percentage of the final grade</th> </tr> </thead> <tbody> <tr> <td data-bbox="451 510 794 544">Test</td> <td data-bbox="794 510 1137 544">51.0%</td> <td data-bbox="1137 510 1487 544">100.0%</td> </tr> </tbody> </table>			Subject passing criteria	Passing threshold	Percentage of the final grade	Test	51.0%	100.0%
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Test	51.0%	100.0%							
Recommended reading	Basic literature	<p>1. Chaberek M.: Makro- i mikroekonomiczne aspekty wsparcia logistycznego. Wyd. Uniw. Gdańskiego, Gdańsk 2002</p> <p>2. Mańkowski C.: Modelowanie procesów logistycznych. Wydawnictwo Uniwersytetu Gdańskiego, Gdańsk 2020 (available here)</p> <p>3. Błaik P.: Logistyka. PWE, Warszawa 2010</p>							
	Supplementary literature	<p>1. Mańkowski C.: Synergia w logistyce. Wyd. Uniw. Gdańskiego, Gdańsk 2010</p> <p>2. Twaróg J.: Koszty logistyki przedsiębiorstw. ILiM, Poznań 2003</p> <p>3. Twaróg J.: Mierniki i wskaźniki logistyczne. ILiM, Poznań 2005</p> <p>4. Beier F., Rutkowski K.: Logistyka. Wydaw. SGH, Warszawa 2005</p> <p>5. Jacyna M., Lewczuk K., Projektowanie systemów logistycznych, PWN, Warszawa 2016</p> <p>6. Czasopisma: Logistyka; Logistyka a Jakość; Eurologistics; Gospodarka Materiałowa i Logistyka; Spedycja, Transport, Logistyka</p> <p>7. Portale: www.ptl.net.pl, www.logistyka.net.pl, ariscommunity.com</p>							
	eResources addresses								
Example issues/ example questions/ tasks being completed	<p>Types of logistics systems</p> <p>Components of logistics systems</p> <p>Elements of the market environment of logistics systems</p> <p>Ontologies, architectures, standards, tools for designing logistics systems</p>								
Work placement	Not applicable								

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