

Subject card

Subject name and code	Logistic systems , PG_00198991						
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	full-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			credit		
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	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	4.0	66.0	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		
	[EKONL3_W02] has an advanced knowledge of the different types of existing business entities and organisations and public institutions	Has advanced knowledge of logistics systems of economic entities and public institutions			[SW4] test/exam - oral or written		
	[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 problems related to logistics systems 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] knows 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 sphere of national or international logistics systems			[SW4] test/exam - oral or written		

Subject contents	<p>1. The essence of logistics systems Concept, features and types of systems, classification criteria of logistics systems, structures of logistics systems</p> <p>2. Components of logistics systems Events. Processes. Resources. Relations. Parameters. 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 Schema, Aris)</p> <p>Any doubts regarding the issues discussed during classes can be discussed during consultations.</p>								
Prerequisites and co-requisites	Basic economic knowledge								
Assessment methods and criteria	<table border="1" data-bbox="448 658 1477 730"> <thead> <tr> <th data-bbox="448 658 798 689">Subject passing criteria</th> <th data-bbox="802 658 1141 689">Passing threshold</th> <th data-bbox="1145 658 1477 689">Percentage of the final grade</th> </tr> </thead> <tbody> <tr> <td data-bbox="448 696 798 730">Test</td> <td data-bbox="802 696 1141 730">51.0%</td> <td data-bbox="1145 696 1477 730">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	<ol style="list-style-type: none"> 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 Gdanskiego, Gdańsk 2020 (Tutaj) 							
	Supplementary literature	<ol style="list-style-type: none"> 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 przedsiębiorstw. 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 9. Materiałowa i Logistyka; Spedycja, Transport, Logistyka 9. Portale: www.ptl.net.pl, www.logistyka.net.pl, ariscommunity.com 							
	eResources addresses								
Example issues/ example questions/ tasks being completed	<p>Types of logistics systems</p> <p>Logistics system components</p> <p>Methods and tools for designing logistics systems</p>								
Work placement	Not applicable								

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