

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				
	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_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	
	[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	

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>								
Prerequisites and co-requisites	Basic economic knowledge								
Assessment methods and criteria	<table border="1" data-bbox="451 506 1477 568"> <thead> <tr> <th data-bbox="451 506 798 533">Subject passing criteria</th> <th data-bbox="805 506 1141 533">Passing threshold</th> <th data-bbox="1149 506 1477 533">Percentage of the final grade</th> </tr> </thead> <tbody> <tr> <td data-bbox="451 544 798 568">Test</td> <td data-bbox="805 544 1141 568">51.0%</td> <td data-bbox="1149 544 1477 568">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, Gdansk 2002</p> <p>2. Blaik P.: Logistyka. PWE, Warszawa 2010</p> <p>3. Mańkowski C.: Modelowanie procesów logistycznych. Wydawnictwo Uniwersytetu Gdańskiego, Gdańsk 2020 (Tutaj)</p>							
	Supplementary literature	<p>1. Logistyka. Red. S. Krzyżaniak, D. Kisperska-Moroń. ILiM, Poznan 2009</p> <p>2. Weiland, D., Wierzbowski, P., Logistyka informacji w Gospodarce 4.0. Wydawnictwo Uniwersytetu Gdańskiego, Gdańsk 2020 (Tutaj)</p> <p>3. Mańkowski C.: Synergia w logistyce. Wydw. Uniw. Gdańskiego, Gdańsk 2010</p> <p>4. Twaróg J.: Koszty logistyki przedsiębiorstw. ILiM, Poznań 2003</p> <p>5. Twaróg J.: Mierniki i wskaźniki logistyczne. ILiM, Poznań 2005</p> <p>6. Beier F., Rutkowski K.: Logistyka. Wydaw. SGH, Warszawa 2005</p> <p>7. Jacyna M., Lewczuk K., Projektowanie systemów logistycznych, PWN, Warszawa 2016</p> <p>8. Czasopisma: Logistyka; Logistyka a Jakość; Eurologistics; Gospodarka Materiałowa i Logistyka; Spedycja, Transport, Logistyka</p>							
	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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