

Subject card

Subject name and code	Logistic systems - lecture, PG_00169971						
Field of study	Economics						
Date of commencement of studies	October 2025		Academic year of realisation of subject		2027/2028		
Education level	Bachelor's studies		Subject group		Obligatory subject group in the field of study Optional 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	5		ECTS credits		2.0		
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	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		5.0		30.0	50
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_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 sphere of national or international logistics systems		[SW4] 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_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_W02] has 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		

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 Schema, 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. Gdańskiego, Gdansk 2002 2. Blaik P.: Logistyka. PWE, Warszawa 2010 3. Mańkowski C.: Modelowanie procesów logistycznych. Wydawnictwo Uniwersytetu Gdanskiego, Gdańsk 2020 (Tutaj)	
	Supplementary literature	1. Logistyka. Red. S. Krzyżaniak, D. Kisperska-Moroń. ILiM, Poznań 2009 2. Weiland, D., Wierzbowski, P., Logistyka informacji w Gospodarce 4.0. Wydawnictwo Uniwersytetu Gdańskiego, Gdańsk 2020 (Tutaj) 3. Mańkowski C.: Synergia w logistyce. Wyd. 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 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	Types of logistics systems		
	Logistics system components		
	Methods and tools for designing logistics systems		
Work placement	Not applicable		

Document generated electronically. Does not require a seal or signature.