

Subject card

Subject name and code	Logistic systems - classes, PG_00169970						
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	0.0	15.0	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	Students acquire skills in designing and optimizing logistics processes and systems, including using the Design Thinking methodology and ARIS IT tools. Strengthening students' social competences through group 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 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] 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 public institutions operating in the sphere of domestic and international logistics systems		[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 different types of entities that require logistics systems		[SW4] test/exam - oral or written		

Subject contents	1. Introduction to exercise tasks 2. Designing a product or service in accordance with the elements of the Design Thinking methodology (empathy, defining the problem, generating ideas, prototyping and testing) 3. Mapping the basic and logistic process for the designed product using the ARIS software 4. Designing a micrologistics system for a selected type of enterprise 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
	Project	51.0%	100.0%
Recommended reading	Basic literature	1. Chaberek M.: Makro- i mikroekonomiczne aspekty wsparcia logistycznego. Wyd. Uniw. Gdańskiego, Gdańsk 2002 2. Weiland, D., Wierzbowski, P., Logistyka informacji w Gospodarce 4.0. Wydawnictwo Uniwersytetu Gdańskiego, Gdańsk 2020 (Tutaj) 3. Mańkowski C.: Modelowanie procesów logistycznych. Wydawnictwo Uniwersytetu Gdańskiego, Gdańsk 2020 (Tutaj)	
	Supplementary literature	1. Logistyka. Red. S. Krzyżaniak, D. Kisperska-Moron. ILiM, Poznań 2009 2. Szmelter A.: Synergy Phenomenon in Supply Logistics, LAP Lambert Academic Publishing, Saarbrücken 2014 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 Materialowa 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	What is the basic process and what is the logistics process supporting the basic process in a selected enterprise? What methods and tools are used to model the logistics process and system?		
Work placement	Not applicable		

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