

Subject card

Subject name and code	Logistics Systems - class, PG_00174043						
Field of study	Logistics and Mobility						
Date of commencement of studies	October 2025		Academic year of realisation of subject		2026/2027		
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		2.0		
Learning profile	academic		Assessment form				
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 the field of designing and optimizing logistics processes and systems, including using the Design Thinking methodology and statistical methods and IT tools, including ARIS Express. Strengthening students' social competences through group work.						
Learning outcomes	Course outcome		Subject outcome		Method of verification		
	[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 designing and optimizing logistics processes and systems that appear in the professional work of a logistician		[SU2] presentation/project/paper/report		
	[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		[SK2] presentation/project/paper/report		
	[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 relations between economic entities and public institutions operating in the national, international and intercultural spheres, understands the importance of designing and optimizing logistics processes and systems for their operations		[SW2] presentation/project/paper/report		
	[LML3_W02] has advanced knowledge of different types of entities that require logistics support or provide logistics services		Has advanced knowledge of various types of entities that require logistics support in the form of designing and optimizing logistics processes and systems		[SW1] oral statement/conversation/discussion [SW2] presentation/project/paper/report		

Subject contents	1. Introduction to exercise tasks		
	2. Designing a product or service in accordance with the Design Thinking methodology (empathy, problem definition, idea generation, prototyping and testing)		
	3. Mapping the basic and logistics process for the designed product using ARIS software		
	4. Designing a micrologistics system for a selected type of enterprise		
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, Poznan 2009	
		2. Szmelter A.: Synergy Phenomenon in Supply Logistics, LAP Lambert Academic Publishing, Saarbrücken 2014	
		3. Mańkowski C.: Synergia w logistyce. Wyd. Uniw. Gdanskiego, Gdansk 2010	
		4. Twaróg J.: Koszty logistyki przedsiębiorstw. ILiM, Poznan 2003	
		5. Twaróg J.: Mierniki i wskaźniki logistyczne. ILiM, Poznan 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	Adresy na platformie eNauczanie:	
Example issues/ example questions/ tasks being completed	What is a basic process and what is a logistics process supporting the basic process in a given enterprise?		
	What methods and tools are used to model the logistics process and system?		
Work placement	Not applicable		

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