

**Subject card**

Subject name and code	Logistic Systems, PG_00119134						
Field of study	Economics						
Date of commencement of studies	October 2024	Academic year of realisation of subject			2026/2027		
Education level	Bachelor's studies	Subject group			Obligatory subject group 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	6	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		mgr Patryk Wierzbowski				
	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		0.0		0.0	15
Subject objectives	The purpose of the course is to familiarize students with the concept of logistics systems. Make systematization of logistics systems, discuss the structure of logistics systems. Acquire students' skills in designing and optimizing goods and services, as well as logistics processes and systems, among others, using Design Thinking methodology and statistical methods, as well as IT tools, including ARIS Express. Strengthening students' social skills through group work.						
Learning outcomes	Course outcome		Subject outcome		Method of verification		
	[EKONL3_W02] has advanced knowledge of the different types of existing business entities and organisations and public institutions		The student understands the process and system approach to the functioning of any organization.		[SW2] presentation/project/paper/report		
	[EKONL3_U06] uses the knowledge acquired in economics, finance and management to solve economic and social dilemmas arising in the professional context		The student can use IT tools for modeling and describing the course of economic processes or systems.		[SU2] presentation/project/paper/report [SU8] observation of student's independent or team work		
	[EKONL3_K05] correctly identifies, diagnoses and resolves professional dilemmas and different options for solutions		The student takes on assigned tasks and resolves them in a creative manner.		[SK2] presentation/project/paper/report [SK8] observation of student's independent or team work		
	[EKONL3_W03] has advanced knowledge of the relations between economic agents and social organisations operating in the national, international and intercultural arenas		The student understands the process and system approach to the functioning of any organization.		[SW2] presentation/project/paper/report		

Subject contents	<p>1. Introduction to exercise issues</p> <p>2. Design of a good or service according to elements of Design Thinking methodology (empathy, problem definition, idea generation, prototyping and testing)</p> <p>3. Mapping of the basic and logistical process for the designed product using the ARIS Express tool</p> <p>4. Designing a micrology system for an enterprise producing a good or providing a service</p>		
Prerequisites and co-requisites	Ability to see economic events and processes in a systemic way.		
Assessment methods and criteria	Subject passing criteria	Passing threshold	Percentage of the final grade
	Group project	51.0%	70.0%
	Group presentation	51.0%	30.0%
Recommended reading	Basic literature	<p>1. Mańkowski C.: Modelowanie procesów logistycznych. Wydawnictwo Uniwersytetu Gdańskiego, Gdańsk 2020 (Tutaj)</p> <p>2. Chaberek M.: Makro- i mikroekonomiczne aspekty wsparcia logistycznego. Wyd. Uniw. Gdanskiego, Gdansk 2002</p> <p>3. Blaik P.: Logistyka. PWE, Warszawa 2010</p>	
	Supplementary literature	<p>1. Logistyka. Red. S. Krzyżaniak, D. Kisperska-Moroń. ILiM, Poznań 2009</p> <p>2. Szmelter A.: Synergy Phenomenon in Supply Logistics, LAP Lambert Academic Publishing, Saabrucken 2014</p> <p>3. Mańkowski C.: Synergia w logistyce. Wyd. 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>	
	eResources addresses		
Example issues/ example questions/ tasks being completed			
Work placement	Not applicable		

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