

**Subject card**

<b>Subject name and code</b>	Logistic Systems, PG_00053149						
<b>Field of study</b>	Economics						
<b>Date of commencement of studies</b>	October 2024	<b>Academic year of realisation of subject</b>				2026/2027	
<b>Education level</b>	Bachelor's studies	<b>Subject group</b>				Obligatory subject group in the field of study Optional subject group	
<b>Mode of study</b>	part-time studies	<b>Mode of delivery</b>				at the university	
<b>Year of study</b>	3	<b>Language of instruction</b>				Polish	
<b>Semester of study</b>	5	<b>ECTS credits</b>				2.0	
<b>Learning profile</b>	academic	<b>Assessment form</b>				credit	
<b>Conducting unit</b>	Department of Logistics -> Faculty of Economics -> Rector						
<b>Name and surname of lecturer (lecturers)</b>	<b>Subject supervisor</b>		mgr Patryk Wierzbowski				
	<b>Teachers</b>						
<b>Lesson types</b>	<b>Lesson type</b>	Lecture	Tutorial	Laboratory	Project	Seminar	SUM
	<b>Number of study hours</b>	0.0	10.0	0.0	0.0	0.0	10
	E-learning hours included: 0.0						
<b>Learning activity and number of study hours</b>	<b>Learning activity</b>	Participation in didactic classes included in study plan		Participation in consultation hours		Self-study	SUM
	<b>Number of study hours</b>	10		0.0		0.0	10
<b>Subject objectives</b>	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.						
<b>Learning outcomes</b>	<b>Course outcome</b>		<b>Subject outcome</b>			<b>Method of verification</b>	
	[EKONL3_K03] participates in the preparation of economic and social projects, being able to reconcile legal, economic, ecological, political and social requirements		The student undertakes assigned tasks and solves them creatively.			[SK2] presentation/project/paper/report [SK8] observation of student's independent or team work	
	[EKONL3_U02] is able to use the knowledge of theory and data to analyse concrete economic and social processes and phenomena and to analyse these phenomena using methods developed in economics, finance and management sciences		The student is able to use computer tools for mapping and describing the course of economic processes or systems.			[SU2] presentation/project/paper/report [SU8] 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 presentation	51.0%	30.0%
	Group project	51.0%	70.0%
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	<p>Basic</p> <p><a href="https://wydawnictwo.ug.edu.pl/produkt/modelowanie-procesow-logistycznych/">https://wydawnictwo.ug.edu.pl/produkt/modelowanie-procesow-logistycznych/</a> - Mańkowski C.: Modelowanie procesów logistycznych. Wydawnictwo Uniwersytetu Gdańskiego, Gdańsk 2020</p>	
Example issues/ example questions/ tasks being completed			
Work placement	Not applicable		

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