

Subject card

Subject name and code	Designing Logistic Support, PG_00171484						
Field of study	Economics						
Date of commencement of studies	October 2025		Academic year of realisation of subject		2025/2026		
Education level	Master's studies		Subject group		Obligatory subject group in the field of study Specialty subject group		
Mode of study	full-time studies		Mode of delivery		at the university		
Year of study	1		Language of instruction		Polish		
Semester of study	2		ECTS credits		3.0		
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		mgr Patryk Wierzbowski				
Lesson types	Lesson type	Lecture	Tutorial	Laboratory	Project	Seminar	SUM
	Number of study hours	0.0	0.0	30.0	0.0	0.0	30
	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	30		19.0		26.0	75
Subject objectives	Prepare students in terms of knowledge, skills and social competence to use modern methods and tools for designing logistics systems that support other economic systems (production, trade, services) with all necessary resources.						
Learning outcomes	Course outcome		Subject outcome		Method of verification		
	[EKONMU2_W08] has an in-depth knowledge of processes occurring in enterprises and economic organisations and with related areas, as well as of processes of change in public institutions; knows methods of research on the regularities governing these changes, taking into account the influence of external stakeholders on them		The student understands the essence of describing the course of economic processes. The student understands the process and system approach to the functioning of any organization.		[SW2] presentation/project/paper/report [SW5] implementation of a problem task		
	[EKONMU2_K05] correctly identifies, diagnoses and solves dilemmas and alternative solutions related to the profession		The student undertakes the tasks set before him and solves them creatively.		[SK2] presentation/project/paper/report [SK8] observation of student's independent or team work		
	[EKONMU2_U04] can forecast and model complex economic and social processes using quantitative and qualitative methods and tools developed by economic sciences (including statistics and econometrics)		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		

Subject contents	1. Object design as a research method. Realism, evidentialism, processualism, relationalism, systemism as ontological bases of design. The process of design. Design. Systematization of design. 2. Design architectures and standards Design architectures (IFIG, IDEF, ARIS, CIM OSA, Zachman's framework). Design standards (EPC, BPMN, UML, BPEL, WSDL). 3. Logistics support system as a design object Logistics. Logistics support system. Systemization of logistics systems and processes. Structure of logistics systems. Structure of logistics processes. Events, functions, resources, relationships, parameters. 4 Methods and tools for designing logistics support systems Sankey diagram. Aris Easy Design. Aris Express. 5. Design of the reference model of the logistics support system - construction of the model. 6. Presentation of models by students. Any doubts regarding the issues discussed during classes can be discussed during consultations.		
Prerequisites and co-requisites	The ability to view economic events and processes in a systemic way.		
Assessment methods and criteria	Subject passing criteria	Passing threshold	Percentage of the final grade
	Individual presentation	51.0%	20.0%
	Individual project	51.0%	80.0%
Recommended reading	Basic literature	1) Mańkowski C.: Modelowanie procesów logistycznych. Wydawnictwo Uniwersytetu Gdańskiego, Gdańsk 2020.	
		2) Gabryelczyk R.: Aris w modelowaniu procesów biznesu. Difin. Warszawa 2006.	
		3) Mańkowski C.: Ontological Foundations for Business Logistic Process Modeling. "Railway Transport and Logistics" 2007, no. 2, p. 30-38.	
	Supplementary literature	1) Rosing M., A-W. Scheer, H. Scheel: The Complete Business Process Modeling Handbook. Body of Knowledge from Process Modeling to BPM (Volume 1). Morgan Kaufmann, Waltham 2015. Available	
		2) Mańkowski C., Chałampowicz J.: Managing maritime container ports sustainability: a reference model. "Sustainability", MDPI, vol. 13, nr 18, 2021, p. 1-15. Artykuł jest dostępny	
	eResources addresses		
Example issues/ example questions/ tasks being completed	Project of a reference model for a logistic support system - constructing a model for a selected company providing services or manufacturing goods.		
Work placement	Not applicable		

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