University of Gdańsk

Subject card

Subject name and code	Designing Logistic Support, PG_00199361		
Field of study	Economics		
Date of commencement of studies	October 2026	Academic year of realisation of subject	2026/2027
Education level	Master's studies	Subject group	Obligatory subject group in the field of study Optional subject group 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	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		

Lesson types

Lesson type	Lecture	Tutorial	Laboratory	Project	Seminar	SUM
Number of study hours	0.0	30.0	0.0	30.0	0.0	60

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	60	0.0	15.0	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 advanced 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

<table>
<tr><td>Subject contents</td><td>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.</td></tr>
<tr><td>Prerequisites and co-requisites</td><td>The ability to view economic events and processes in a systemic way.</td></tr>
<tr><td>Assessment methods and criteria</td><td>
<table>
<tr><th>Subject passing criteria</th><th>Passing threshold</th><th>Percentage of the final grade</th></tr>
<tr><td>Individual presentation</td><td>51.0%</td><td>20.0%</td></tr>
<tr><td>Individual project</td><td>51.0%</td><td>80.0%</td></tr>
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<tr><td>Recommended reading</td><td>
<table>
<tr><td>Basic literature</td><td>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.</td></tr>
<tr><td>Supplementary literature</td><td>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., Charłampowicz J.: Managing maritime container ports sustainability: a reference model. "Sustainability", MDPI, vol. 13, nr 18, 2021, p. 1-15. Artykuł jest dostepny</td></tr>
<tr><td>eResources addresses</td><td></td></tr>
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<tr><td>Example issues/ example questions/ tasks being completed</td><td>Project of a reference model for a logistic support system - constructing a model for a selected company providing services or manufacturing goods.</td></tr>
<tr><td>Work placement</td><td>Not applicable</td></tr>
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