



## Subject card

Subject name and code	FORECASTING AND OPTIMIZATION IN LOGISTICS, PG_00061120						
Field of study	Management						
Date of commencement of studies	October 2023		Academic year of realisation of subject		2024/2025		
Education level	second-cycle studies		Subject group		Optional subject group		
Mode of study	Full-time studies		Mode of delivery		at the university		
Year of study	2		Language of instruction		English		
Semester of study	3		ECTS credits		2.0		
Learning profile	general academic profile		Assessment form		assessment		
Conducting unit	Faculty of Management and Economics						
Name and surname of lecturer (lecturers)	Subject supervisor		dr Mateusz Muchlado				
	Teachers		dr Mateusz Muchlado  mgr Anna Wendt				
Lesson types and methods of instruction	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		3.0		17.0	50
Subject objectives	Acquiring knowledge and skills in using tools to support and optimize logistics processes.						
Learning outcomes	Course outcome		Subject outcome		Method of verification		
	[K7_U04] prepares and presents convincing, professional presentations of analysis results, with their in-depth interpretation		The student is able to present the solutions he has developed in an attractive and accessible way to the group. The student is able to use specialized tools used to present statistical and logistic data.		[SU1] Assessment of task fulfilment [SU5] Assessment of ability to present the results of task		
	[K7_K01] recognizes the importance of knowledge related to the field of study in solving cognitive and practical problems		The student has knowledge of logistics processes and the projection of demand and supply. He can use his knowledge in practice to make the right decisions regarding logistics process.		[SK1] Assessment of group work skills		
Subject contents	1. Basics of logistics processes and management methods.2. Basics of warehouse management, assortment organization strategies.3. Naive methods in estimating storage demand.4. Statistical methods of controlling logistics processes.5. Risk management in logistics processes.6. Simulation game regarding internal transport processes and resource-based planning.						
Prerequisites and co-requisites	Basic knowledge of economics and management, English language usage						
Assessment methods and criteria	Subject passing criteria		Passing threshold		Percentage of the final grade		
	In-semester mini-project's		60.0%		50.0%		
	Final exam		60.0%		50.0%		

Recommended reading	Basic literature	Multimedia presentation, available on the e-learning platform.  Additional materials available on the e-learning platform.
	Supplementary literature	Fernie, John, and Leigh Sparks, eds. <i>Logistics and retail management: emerging issues and new challenges in the retail supply chain</i> . Kogan page publishers, 2018.  McKinnon, Alan, et al., eds. <i>Green logistics: Improving the environmental sustainability of logistics</i> . Kogan Page Publishers, 2015.
	eResources addresses	Podstawowe <a href="https://enauczanie.pg.edu.pl/moodle/course/view.php?id=40292">https://enauczanie.pg.edu.pl/moodle/course/view.php?id=40292</a> - E-nauczanie Platform Adresy na platformie eNauczanie: Forecasting and optimalization in logistics (Winter 24/25) - Moodle ID: 40292 <a href="https://enauczanie.pg.edu.pl/moodle/course/view.php?id=40292">https://enauczanie.pg.edu.pl/moodle/course/view.php?id=40292</a>
Example issues/ example questions/ tasks being completed	1. Choose the best inventory management strategy for your dairy wholesaler.  2. Choose the best demand forecasting system for seasonal products  3. Present a risk analysis for the selected procurement process  4. Propose a strategy for internal product logistics in the factory	
Work placement	Not applicable	

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