

Subject card

Subject name and code	FORECASTING AND OPTIMIZATION IN LOGISTICS, PG_00037869								
Field of study	Management								
Date of commencement of studies	October 2022		Academic year of realisation of subject			2023/2024			
Education level	second-cycle studies		Subject group			Obligatory subject group in the field of study 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	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	Subject supervisor dr Mateusz Muchlado								
of lecturer (lecturers)	Teachers		dr Mateusz Muchlado						
			mgr Anna Wendt						
Lesson types and methods	Lesson type	Lecture	Tutorial	Laboratory	Projec	t	Seminar	SUM	
of instruction	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 classes include plan		Participation in consultation hours		Self-study		SUM	
	Number of study 30 hours		2.0		18.0 50		50		
Subject objectives	Acquiring knowledge and skills in using tools to support and optimize logistics processes.								
Learning outcomes	Course out	Subject outcome			Method of verification				
	[K7_W07] knows in depth selected methods and techniques of data acquisition, enabling analysis and modelling of structures and socioeconomic relations, processes taking place and their impact on the implementation of objectives of the organization, including government administration, local government and non-profit organizations		The student has knowledge of the basics of managing logistics and warehouse systems.			[SW1] Assessment of factual knowledge			
	[K7_W11] has an in-depth knowledge of the creation, operation and design of management structures and systems and their improvement in the process of achieving objectives		The student has knowledge and skills in implementing process optimizations in the area of logistics			[SW3] Assessment of knowledge contained in written work and projects			
	[K7_U02] analyses complex economic processes and phenomena using selected methods and techniques for analysing socio-economic data, and formulates their own opinions and conclusions concerning these processes and phenomena		The student is able to use basic tools and methods of statistical analysis of demand and supply in order to make strategic decisions in the area of logistics			[SU4] Assessment of ability to use methods and tools			
	[K7_K04] acts in accordance with the principles of building relations and managing processes and projects, organizing them for the benefit of the company and anticipating the consequences of decisions made		The student is able to design and present solutions that can optimize logistics areas.			[SK1] Assessment of group work skills			

Data wydruku: 20.04.2024 08:51 Strona 1 z 2

Subject contents							
Subject contents	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	Subject passing criteria	Passing threshold	Percentage of the final grade				
and criteria	Final exam	60.0%	50.0%				
	In-semester mini-project's	60.0%	50.0%				
Recommended reading	Basic literature	Multimedia presentation, availab					
		Additional materials available on the e-learning platform.					
	Supplementary literature	eds. Logistics and retail management: nges in the retail supply chain. Kogan					
		McKinnon, Alan, et al., eds. <i>Green logistics: Improving the environmental sustainability of logistics</i> . Kogan Page Publishers, 2015					
	eResources addresses	Podstawowe https://enauczanie.pg.edu.pl/moodle/course/view.php?id=33065 - Online materials on e-nauczanie platform Adresy na platformie eNauczanie:					
		Forecasting and optimalization in logistics (Winter23/24) - Moodle ID: 33065 https://enauczanie.pg.edu.pl/moodle/course/view.php?id=33065					
Example issues/ example questions/ tasks being completed							
	 Choose the best inventory management strategy for your dairy wholesaler. Choose the best demand forecasting system for seasonal products Present a risk analysis for the selected procurement process 						
Work placement	Not applicable						
TO R PIGGOTTOTIC	***						

Data wydruku: 20.04.2024 08:51 Strona 2 z 2