



Subject card

Subject name and code	Warehouse Storage Techniques, PG_00060678						
Field of study	Transport and Logistics						
Date of commencement of studies	October 2025		Academic year of realisation of subject			2027/2028	
Education level	first-cycle studies		Subject group			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	3		Language of instruction			Polish	
Semester of study	6		ECTS credits			4.0	
Learning profile	general academic profile		Assessment form			assessment	
Conducting unit	Zakład Projektowania Okrętu - Brak (istniała Wcześniej) -> Institute Of Naval Architecture -> Faculty Of Mechanical Engineering And Ship Technology -> Wydziały Politechniki Gdańskiej						
Name and surname of lecturer (lecturers)	Subject supervisor		prof. dr hab. inż. Jakub Montewka				
	Teachers						
Lesson types and methods of instruction	Lesson type	Lecture	Tutorial	Laboratory	Project	Seminar	SUM
	Number of study hours	30.0	0.0	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		4.0		36.0	100
Subject objectives	The aim of the subject is to familiarize with the basic knowledge of the process of storing goods and services related to them. The subject is designed to present the most important aspects in the field of supply chain management, domestic and international logistics of goods and services, the functioning of the warehouse market in Poland and Europe, the construction and equipment of warehouses, the operation of warehouses in the logistics process. An important element of the subject is a project in which the Student learns to design and equip the warehouse with its most important elements.						
Learning outcomes	Course outcome		Subject outcome			Method of verification	
	[K6_W08] has knowledge of the principles of sustainable development		The student is aware of the need to develop in a sustainable manner, taking into account a number of aspects related to a given system and the environment in which this system operates.			[SW3] Assessment of knowledge contained in written work and projects	
	[K6_U05] can formulate a simple engineering task and its specification in the field of design, maintenance and operation of transport means and systems		The student is able to prepare a simple project related to the construction or operation of a selected element and aspect of the transport system, being aware of the boundary conditions and limitations.			[SU3] Assessment of ability to use knowledge gained from the subject	

Subject contents	1. Introduction to the subject 2. The essence and importance of the warehouse and warehousing in a logistics system, supply chain management 3. Logistic infrastructure and the warehouse market in Poland, the flow of information in logistics 4. Types and kinds of warehouses, classification. Modal points in logistics. The functioning of the warehouse, 5. Forms and types of warehouses (logistic, storage and distribution centers) 6. Goods storage techniques. Processes in the warehouse, warehouse division, storage zones, construction and equipment of the warehouse 7. Warehousing techniques. Forming cargo units in warehouses. Stocks and stock management. Cross-docking 8. Warehouse processes. Division of warehouses, storage zones, construction and equipment of the warehouse 9. Warehouse techniques and technical equipment of the warehouse 10. automatic warehouses 11. IT systems in warehousing 12. Security in storage		
Prerequisites and co-requisites			
Assessment methods and criteria	Subject passing criteria	Passing threshold	Percentage of the final grade
	Lectures	51.0%	50.0%
	Project	51.0%	50.0%
Recommended reading	Basic literature	1. Paweł Andrzejczyk, Paweł Fajfer, Ewa Rajczakowska, Podstawy logistyki w przykładach i ćwiczeniach, Instytut Logistyki i Magazynowania, 2020 2. Daniel Chudzik Andrzej Szymonik, , Logistyka nowoczesnej gospodarki magazynowej, Difin 2018 3. Cieśla Maria, Hat-Garncarz Grażyna, Opasiak Tadeusz, Nowakowski Piotr , Logistyka w łańcuchach dostaw. Wybrane zagadnienia, Wydawnictwo Politechniki Śląskiej 2017 4. Jan Długosz, Nowoczesne technologie w logistyce, PWE 2017 5. Gołemska Elżbieta, Majchrzak-Lepczyk Justyna, Bentyn Zbigniew , Logistyka usług, PWN 2017 6. Michał Kłodawski, Modelowanie procesów magazynowych w zastosowaniu do oceny wydajności i bezpieczeństwa pracy w magazynach, Oficyna Wydawnicza Politechniki Warszawskiej 7. Michał Kłodawski, Modelowanie procesów magazynowych w zastosowaniu do oceny wydajności i bezpieczeństwa pracy w magazynach, Oficyna Wydawnicza Politechniki Warszawskiej, Warszawa 2019 8. Łapko Aleksandra, Wagner Natalia, Logistyka dystrybucji . Trendy - Wyzwania Przykłady, CeDeWu Sp. z o.o. 2019 9. Richards Gwynne, Zarządzanie logistyką magazynową, Wydawnictwo Naukowe PWN, 2016 10. Grzegorz Tarczyński, Optymalizacja procesów magazynowych, Wydawnictwo Uniwersytetu Ekonomicznego we Wrocławiu, 2019	
	Supplementary literature	1. Cieśla Maria, Hat-Garncarz Grażyna, Opasiak Tadeusz, Nowakowski Piotr , Logistyka w łańcuchach dostaw. Wybrane zagadnienia, Wydawnictwo Politechniki Śląskiej 2017 2. Richards Gwynne, Zarządzanie logistyką magazynową, Wydawnictwo Naukowe PWN, 2016	
	eResources addresses	Adresy na platformie eNauczanie:	
Example issues/ example questions/ tasks being completed			
Work placement	Not applicable		

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