

。 GDAŃSK UNIVERSITY OF TECHNOLOGY

Subject card

Subject name and code	Logistics and storage, PG_00056145								
Field of study	Management and Production Engineering								
Date of commencement of studies	October 2022		Academic year of realisation of subject			2024/2025			
Education level			Subject group						
Mode of study			Mode of delivery			at the university			
Year of study			Language of instruction			Polish			
Semester of study			ECTS credits			4.0	4.0		
Learning profile	general academic profile		Assessment form		assessment				
Conducting unit	Division of Manufacturing and Production Engineering -> Institute of Manufacturing and Materials Technology -> Faculty of Mechanical Engineering and Ship Technology								
Name and surname of lecturer (lecturers)	Subject supervisor dr inż. Aleksandra Wiśniewska Teachers								
Lesson types and methods of instruction	Lesson type	Lecture	Tutorial	Laboratory	Projec	t	Seminar	SUM	
	Number of study hours	30.0	0.0	0.0	30.0		0.0	60	
	E-learning hours included: 0.0								
	Address on the e-learning platform: https://enauczanie.pg.edu.pl/moodle/my/								
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		0.0		60	
Subject objectives	The student learns the knowledge and perfor and warehousing, the a supply system and ending with efficient c	rming simple ex student can in an optimized te	xercises related	d to the analyze esign a logistic	ed areas s syster	s of issu n, starti	ues in the field ng from the c	d of logistics levelopment of	

Learning outcomes	Course outcome	Subject outcome	Method of verification
	[K6_W05] has systematized, theoretically founded knowledge of modelling the operation of production systems with various structures and forms of their organization and the analysis of production processes using computer simulation methods	The student knows and is able to identify the structures and forms of production. The student is able to analyze the goals of the designed object and choose the form of production organization and process parameters ensuring the achievement of the assumed goals. Student uses computer- aided analysis for troubleshooting and design objects: their structure and functional relationships.	[SW3] Assessment of knowledge contained in written work and projects [SW2] Assessment of knowledge contained in presentation
	[K6_K03] is aware of the social role of a graduate of a technical university, understands the importance of non-technical aspects and effects of engineering activities including their impact on the environment and responsibility for decisions, sees the need to formulate and provide the public with information and opinions on the achievements of technology, correctly identifies and resolves dilemmas associated with thejob of an engineer	The student understands the impact of his actions and decisions on the quality and safety of other people's work. The student is able to formulate messages (create reports, instructions and other documents) using standardization and visualization, so that the message created for the recipients is simple and understandable.	[SK1] Assessment of group work skills [SK5] Assessment of ability to solve problems that arise in practice [SK4] Assessment of communication skills, including language correctness [SK3] Assessment of ability to organize work
	[K6_W06] has knowledge of the life cycle of products and mechanical devices and systems, in the field of machine parts manufacturing techniques, as well as the possibilities and trends in the development of machines and production devices and process control	The student knows the types of products and the differences between managing a production company and managing a service company. Based on the acquired knowledge of production systems, the student knows the specificity of production processes as well as the principles, methods and tools of production control. Based on the acquired knowledge of production processes and technical and information resources, the student is able to select methods and tools for analysis, control and optimization ensuring high quality and efficiency of production control processes.	[SW3] Assessment of knowledge contained in written work and projects [SW1] Assessment of factual knowledge
	[K6_U11] is able to identify and formulate simple engineering tasks related to the diagnostics of the technical condition of machines and devices using appropriate methods, techniques and tools	The student is able to determine the indicators and measures of equipment effectiveness and their impact on the stability and efficiency of the analyzed or designed logistics system or warehouse space.	[SU5] Assessment of ability to present the results of task [SU4] Assessment of ability to use methods and tools [SU3] Assessment of ability to use knowledge gained from the subject [SU2] Assessment of ability to analyse information [SU1] Assessment of task fulfilment
	[K6_U06] when formulating and solving engineering tasks a student can see aspects of system management and organization of individual and as a team, taking into account the human factor, has necessary peparation for work in an industrial environment, and knows the rules and standards related to occupational health and safety	The student identifies the structural and functional relationships between the elements of the analyzed or designed system. The student is able to analyze material and information flows in a given system and is able to identify places generating losses in the value chain (value stream mapping). The student is able to determine the level of risk and indicate activities that reduce the level of risk or maintain the risk at an acceptable level.	[SU4] Assessment of ability to use methods and tools [SU3] Assessment of ability to use knowledge gained from the subject [SU2] Assessment of ability to analyse information [SU1] Assessment of task fulfilment

1. Lo 2. Lo 3. Lo 4. Lo techr appli 5. Lo mana	ctures Logistics - definitions and goals of logistics. Definitions. Logistics system and process. Transport susceptibility of various types of goods. Logistics: procurement, production, distribution. Logistics infrastructure - material flow: types of warehouses; movement of goods through the warehouse; thinical means used in the warehouse; methods of identifying commodity units; Pareto principle - scope of plication; rules for arranging goods in the warehouse. Logistic infrastructure - information flow: application of the probability theory; basic methods of inventory inagement (ABC / XYZ, EOQ, MRP, DRP, JIT). Designing logistic systems and storage spaces.				
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6. De	Designing logistic systems and storage spaces.				
7. Ar	7. Analysis of the effectiveness of logistics systems.				
8. Pr	8. Provisions of EU Directives and provisions of technical supervision.				
Proje	Project - example				
Optir	Optimization of logistics processes in a selected production or service company				
2. (Responsibilities of employees Company structure Processes taking place in the enterprise Process list (hierarchy) 				
5. 6. 7. 8. 9. 10. 11.	 Sales process card Storage process card (storage of semi-finished products) Procurement process card Transport process card 				
Prerequisites Know and co-requisites	Knowledge of issues related to project management and human resources.				
Knov	Knowledge of issues related to the basics of production and service management.				
Assessment methods	Subject passing criteria Passing threshold Percentage of the final grade				
and criteria tests					
	oject 60.0% 50.0%				

Szymonik Andrzej, Chudzik Daniel, Nowoczesna koncepcja logistyki pródukcji, Dlin 2020 Szymonik Andrzej, Chudzik Daniel, Nowoczesna koncepcja logistyki pródukcji, Dlin 2020 Rudawska Anna, Logistyka procesów produkcji, Wydawnictwa Komunikacji L tęczności WKE 2016 Gwynne Richards, Zarządzanie logistyką magazynową, Wydawnictwo Naukowe PWN 2021 Jacyna Marianna, Lewczuk Konrad, Projektowanie systemów logistycznych. PWN 2016 Bukowski L., Zapewnienie ciągłości dostaw w zmiennym i niepewnym otoczeniu. WSB 2016 Supplementary literature Wojewódzka-Król Krystyna, Rotbiecki Ryszard, Infrastruktura transportu. Europa, Polska teoria i praktyka, Wydawnictwo Naukowe PWN 2018 Pohl Hans-Christian, Zarządzanie logistyką, Funkcje i Instrumenty. Biblioteka logistyka 1988 Skowronek Czesław, Sarjusz-Wolski Zdzisław, Logistyka w przedsiębiorstwie. PWE 2013 Waterials and articles provided by the teacher Resources addresses Adresy na platformie eNauczanie: Example jestues/ erategy. Supples management. Selection of technical equipment for optical handing of the warehouse. Logistics objectives. Definition. Transport Duesch Rules of ruscordance with the storage strategy. Supples management. Selection relevances in denthing goods in the warehouse. Logistics objectives. Definition. Transport Rules for arranging goods in the warehouse. Topisotic of technical equipment for optical handing of the warehouse. Topisotic of probability theory. Basic inventory management methouse. Jogistics Odos in the warehouse. Technical equipment for optical handing of the warehouse. Application of the probability theory. Basic inventory management methouse. Jory XZ, EOQ, MRP, DEP, JTP. Prostasin of the harehouse	Recommended reading	Basic literature		
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