GDAŃSK UNIVERSITY OF TECHNOLOGY

Subject card

Subject name and code	Supply chain logistics, PG_00064983		
Field of study	Transport and Logistics		
Date of commencement of studies	February 2027	Academic year of realisation of subject	2026/2027
Education level	second-cycle studies	Subject group	Obligatory subject group 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	1	ECTS credits	3.0
Learning profile	general academic profile	Assessment form	assessment
Conducting unit	Division of Hydromechanics and Ship Design -> Institute of Naval Architecture -> Faculty of Mechanical Engineering and Ship Technology -> Faculties of Gdańsk University of Technology		
Name and surname of lecturer (lecturers)	Subject supervisor	dr Anna Dembicka	
	Teachers	dr Anna Dembicka mgr inż. Wojciech Olszewski	

Lesson types

Lesson type	Lecture	Tutorial	Laboratory	Project	Seminar	SUM
Number of study hours	15.0	0.0	0.0	30.0	0.0	45

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	45	10.0	20.0	75

Subject objectives

Understanding logistics processes in supply chain management in the structure of a modern company.

Learning outcomes

Course outcome	Subject outcome	Method of verification
[K7_W11] interprets social, economic, legal (including industrial and intellectual property laws), and other non-technical aspects of engineering activities, and includes them into engineering practice	The student correctly analyzes social, economic and legal aspects (including industrial property protection), taking them into account in engineering practice.	[SW3] Assessment of knowledge contained in written work and projects [SW2] Assessment of knowledge contained in presentation [SW1] Assessment of factual knowledge
[K7_U01] utilizes acquired methods, tools and mathematical models for analysis and evaluation of transport systems and processes	The student correctly and critically uses the methods and tools needed to analyze and evaluate transport systems.	[SU4] Assessment of ability to use methods and tools
[K7_W13] explains the main principles of individual and teamwork organization, including various forms of entrepreneurship utilizing knowledge from the field of engineering and technical sciences and disciplines relevant to the course of study	The student correctly uses the acquired knowledge in the field of engineering and technical sciences to explain the basic principles of organizing individual and team work.	[SW3] Assessment of knowledge contained in written work and projects
[K7_U02] formulates and tests hypotheses concerning problems od transport systems and processes, as well as simple research problems	The student correctly verifies issues related to transport and logistics	[SU5] Assessment of ability to present the results of task [SU3] Assessment of ability to use knowledge gained from the subject [SU2] Assessment of ability to analyse information

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<tr><td>Subject contents</td><td>Course content – lecture

The concept of logistics, stages of development, factors determining the development and functions of logistics. Forms of logistics integration (product and geographical). Logistics process management (logistics management tools). Logistics system in enterprise management. Transport and logistics points (ports, intermodal terminals, distribution centers, logistics centers). Logistics centers in intermodal transport and supply chain structures. Logistics center as an element of the logistics network. Logistics and the supply chain. Replacing the logistics theory with the theory of supply chain management - as a response to the network environment of modern organizations. Origin and essence of supply chains (supplies of raw materials and components, manufacturer, distributor, seller, end customer) and its components (transport chains). Processes in supply chains. Supply chain management. Supply chain and logistics chain (logistics networks) - coordination of activities for mutual benefits. Value chain. Eurologistics and eurosupply chains. Socially responsible supply chains, circular economy in supply chains. Innovations in the supply chain. Digital solutions in supply chains, smart logistics concept, smart chains Flexibility, leanness, agility, resilience and hybridity of the supply chain. Risk in supply chains Forwarding in supply chains Determinants of supply chain transformation. Evolution of supply chains in global economic areas (factory Asia, Europe, North America).</td></tr>
<tr><td>Prerequisites and co-requisites</td><td>Knowledge in the area of management, marketing and economics</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>test</td><td>60.0%</td><td>60.0%</td></tr>
<tr><td>group presentation</td><td>60.0%</td><td>40.0%</td></tr>
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<tr><td>Recommended reading</td><td>
<table>
<tr><td>Basic literature</td><td>J. Witkowski, Zarządzanie łańcuchem dostaw, PWE, Warszawa 2010.

P. Blaik, Logistyka. PWE, Warszawa 2017.

A. Szymonik, R. Stanisławski, A. Błaszczyk, Nowoczesna koncepcja ekologistyki, Difin, Warszawa 2021.

E. Kulińska, M. Dendera-Gruszka, Zarządzanie ryzykiem łańcuchów dostaw, Difin, Warszawa 2019.</td></tr>
<tr><td>Supplementary literature</td><td>I. Wasilewska-Marszałkowska, Spedycja we współczesnych łańcuchach dostaw, CeDeWu, Warszawa 2022.

J. Neider, Transport międzynarodowy, PWE, Warszawa 2019.

M. Ziółko, D. Dziedzic, Transport i łańcuchy dostaw w czasie pandemii, CeDeWu, Warszawa 2021.</td></tr>
<tr><td>eResources addresses</td><td></td></tr>
</table>
</td></tr>
<tr><td>Example issues/ example questions/ tasks being completed</td><td>transport, logistics, supply chains, supply chain logistics, supply chain logistics</td></tr>
<tr><td>Practical activites within the subject</td><td>Not applicable</td></tr>
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