

。 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 2026		Academic year of realisation of subject			2025/2026			
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 -> Wydziały Politechniki Gdańskiej						chanical		
Name and surname	Subject supervisor		dr Anna Dembicka						
of lecturer (lecturers)	Teachers								
Lesson types and methods of instruction	Lesson type	Lecture	Tutorial	Laboratory	Projec	t	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	earning activity Participation in classes include plan		didactic Participation in ed in study consultation hours		Self-study SUM		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_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			[SU2] Assessment of ability to analyse information [SU3] Assessment of ability to use knowledge gained from the subject [SU5] Assessment of ability to present the results of task			
	[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_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_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.			[SW1] Assessment of factual knowledge [SW2] Assessment of knowledge contained in presentation [SW3] Assessment of knowledge contained in written work and projects			

Subject contents	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).						
Prerequisites and co-requisites	Knowledge in the area of management, marketing and economics						
Assessment methods and criteria	Subject passing criteria	Passing threshold	Percentage of the final grade				
	group presentation	60.0%	40.0%				
	test	60.0%	60.0%				
Recommended reading	Basic literature	 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. 					
	eResources addresses	J. Neider, Transport międzynarodowy, PWE, Warszawa 2019. M. Ziółko, D. Dziedzic, Transport i łańcuchy dostaw w czasie pandemii, CeDeWu, Warszawa 2021.					
Example issues/	transport, logistics supply chains su	upply chain logistics, supply chain log	pistics				
example questions/ tasks being completed							
Work placement	Not applicable						

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