



Subject card

Subject name and code	Fundamentals of logistics, PG_00060627						
Field of study	Transport and Logistics						
Date of commencement of studies	October 2025		Academic year of realisation of subject			2025/2026	
Education level	first-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	1		Language of instruction			Polish	
Semester of study	1		ECTS credits			5.0	
Learning profile	general academic profile		Assessment form			exam	
Conducting unit	Institute Of Naval Architecture -> Faculty Of Mechanical Engineering And Ship Technology -> Wydział Politechniki Gdańskiej						
Name and surname of lecturer (lecturers)	Subject supervisor		dr Anna Dembicka				
	Teachers						
Lesson types and methods of instruction	Lesson type	Lecture	Tutorial	Laboratory	Project	Seminar	SUM
	Number of study hours	30.0	30.0	0.0	0.0	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		5.0		60.0	125
Subject objectives	Familiarizing the student with the organizational and management aspects of activities in basic logistics areas/tasks (transport, inventories, warehousing, packaging, customer service).						
Learning outcomes	Course outcome		Subject outcome			Method of verification	
	[K6_U04] is skilled in self-educating in order to develop his professional qualifications, is prepared to work in an industrial environment, applies the principles of occupational health and safety		The student has acquired the ability to self-educate in order to deepen professional qualifications in an industrial environment. Applies occupational health and safety rules.			[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	
	[K6_W05] has established knowledge in the field of design, construction and operation of transport means and systems		The student has knowledge of the development and operation of systems and means of transport			[SW2] Assessment of knowledge contained in presentation [SW3] Assessment of knowledge contained in written work and projects	
	[K6_K03] understands non-technical aspects and effects of activity in the profession of an engineer and its impact on the environment; is aware of the responsibility for decisions made		The student is aware of the impact of his work as an engineer on the environment and is responsible for the decisions made in this regard			[SK5] Assessment of ability to solve problems that arise in practice [SK3] Assessment of ability to organize work [SK1] Assessment of group work skills	
Subject contents	Lectures. Basic issues: Introduction to logistics. Concept and development of logistics. Economic logistics. Logistics system analysis. Logistics channels. Supply logistics. Production logistics. Distribution logistics (warehousing, packaging, transport). Reverse logistics. Customer service. Additional issues: Green logistics, Push and pull system, Supply chain 4.0. Sustainable logistics infrastructure for mixing, storage, inventory management and information processing. City Logistic, Logistics as a key competence of enterprises Exercises: Logistician, Development of economic logistics, Logistics system, Inventory management, Warehouse and information management (packing), Transport management						
Prerequisites and co-requisites							

Assessment methods and criteria	Subject passing criteria	Passing threshold	Percentage of the final grade
	exercises - 2 tests + additional tasks determined by the teacher on an ongoing basis	60.0%	50.0%
	lecture - colloquium + final assessment	60.0%	50.0%
Recommended reading	Basic literature	Blaik P., Logistyka. Koncepcja zintegrowanego zarządzania, PWE, Warszawa 2017. Stochaj J. Śliżewska J., Podstawy logistyki, WSiP, Warszawa 2021. Grzybowska K., Podstawy logistyki, Difin Warszawa 2010. Skowronek Cz., Sarjusz Wolski Z. Logistyka w przedsiębiorstwie, PWE, 2012.	
	Supplementary literature	Gąsowska M. K., Zarządzanie procesami logistycznymi we współczesnych przedsiębiorstwach, Difin, Warszawa 2022. Zimon D., Logistyka stosowana, CeDeWu, Warszawa 2022. Szymonik A., Stanisławski R., Nowoczesna koncepcja ekologii, Difin, Warszawa 2021.	
	eResources addresses	Adresy na platformie eNauczanie:	
	Example issues/ example questions/ tasks being completed	tasks of logistics systems in the enterprise, supply logistics (methods of inventory formation), production logistics (logistic production planning), distribution logistics (distribution channels), transport and forwarding logistics (logistics centers, warehouses)	
Work placement	Not applicable		

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