Subject card

Subject name and code	INDUSTRIAL LOGISTICS, PG_00061374
Field of study	Engineering Management

Date of commencement of studies	October 2023	Academic year of realisation of subject	2026/2027
Education level	first-cycle studies	Subject group	Optional subject group
Mode of study	Full-time studies	Mode of delivery	at the university
Year of study	4	Language of instruction	Polish
Semester of study	7	ECTS credits	3.0
Learning profile	general academic profile	Assessment form	assessment

Conducting unit	Department Of Management Engineering And Quality -> Faculty Of Management And Economics -> Wydziały Politechniki Gdańskiej

Name and surname of lecturer (lecturers)	Subject supervisor	mgr Anna Wendt
	Teachers	mgr Anna Wendt

Lesson types and methods of instruction	Lesson type	Lecture	Tutorial	Laboratory	Project	Seminar	SUM
	Number of study hours	15.0	30.0	0.0	0.0	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	5.0	25.0	75

Subject objectives	Analyzes logistics chains and networks using modern methods, tools and technical solutions

Learning outcomes	Course outcome	Subject outcome	Method of verification
	[K6_U06] acquires new knowledge by planning own development conducive to achieving the set goals	extends advanced knowledge in the field of study with new areas of industrial logistics	[SU3] Assessment of ability to use knowledge gained from the subject
	[K6_K03] demonstrates the ability to think critically and analytically and integrates knowledge from many disciplines in order to make effective decisions	shows a critical approach to the issues of industrial logistics, integrating technical knowledge with the areas of management and IT	[SK5] Assessment of ability to solve problems that arise in practice

Subject contents	Introduction to logistics. Concepts Analysis and design of logistics chains and networks Logistic strategy Logistics costs Logistics quality Logistics decisions Outsourcing of logistics services CRM. Demand. Demand forecasting methods Procurement logistics. Production logistics. Distribution logistics Inventory management in the logistics system Time management in logistics processes MRP. JIT. Logistics information systems. Barcodes. RFID. GSM. IT systems Storage, handling of materials, packaging. distribution centers. Technical means Transport management. Types of transport. Means of transport. Infrastructure Designing and improving the logistics network
Prerequisites and co-requisites	

Assessment methods and criteria	Subject passing criteria	Passing threshold	Percentage of the final grade
	Activity	60.0%	10.0%
	Presentation	60.0%	20.0%
	Reports	60.0%	70.0%

Recommended reading	Basic literature	Skowronek C., Sarjusz - Wolski Z.: Logistyka w przedsiębiorstwie. Warszawa, 2012 S. Kauf, I. Pisz, Logistyka w naukach o zarządzaniu, część II, Przedsiębiorczość i Zarządzanie, Łódź- Warszawa 2017
	Supplementary literature	Abt Stefan, Zarządzanie logistyczne w przedsiębiorstwie, PWE, Warszawa, 1998 Fertsch M. Logistyka produkcji; Biblioteka Logistyka; 2003 Pozwól klientom napędzać łańcuch dostaw twojej firmy, Krzysztof Rutkowski, Harvard Business Review Polska 2006
	eResources addresses	Adresy na platformie eNauczanie:
Example issues/ example questions/ tasks being completed	Determining the volume of demand (forecasting methods) ABC/XYZ analysis EOQ (Economic Order Quantity) - The optimal size of the delivery lot. ROP (re-order point) - ordering level model (order point) MRP (Material Requirements Planning) - Material requirements planning Transport - choosing means of transport SCM, Eurologistics, VMI, CRM, Outsourcing, Distribution centers, GPS, Indermodal Transport, Containers, New warehouse techniques, JiT, Lean Management, Ecologistics	
Work placement	Not applicable	

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