

Subject card

Subject name and code	Production Logistics - Internet Course, PG_00177433						
Field of study	Economics, International Economic Relations						
Date of commencement of studies	October 2023		Academic year of realisation of subject		2025/2026		
Education level	Bachelor's studies		Subject group		Optional subject group		
Mode of study	part-time studies		Mode of delivery		e-learning		
Year of study	3		Language of instruction		Polish		
Semester of study	5		ECTS credits		2.0		
Learning profile	academic		Assessment form		credit		
Conducting unit	Department of Logistics -> Faculty of Economics -> Rector						
Name and surname of lecturer (lecturers)	Subject supervisor		dr hab. Cezary Mańkowski				
	Teachers		dr hab. Cezary Mańkowski				
Lesson types	Lesson type	Lecture	Tutorial	Laboratory	Project	Seminar	SUM
	Number of study hours	30.0	0.0	0.0	0.0	0.0	30
	E-learning hours included: 30.0						
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	30		0.0		0.0	30
Subject objectives	The purpose of the elective subject is to complement the implementation of selected educational objectives in the field of knowledge, skills and social competences in the field of production logistics						

Learning outcomes	Course outcome	Subject outcome	Method of verification
	[MSG3_W10] knows selected methods and tools, including IT tools and data acquisition techniques, which make it possible to describe and analyse economic entities operating on the international market; knows the processes and phenomena occurring in them and between them, and processes supporting decision-making	Knows selected methods and tools of production logistics, and also knows the processes of logistic support of production processes	[SW4] test/exam - oral or written
	[MSG3_U08] uses basic methods and computer programmes as well as marketing techniques and tools to acquire and analyse data necessary in his/her professional work to diagnose economic processes and make adequate economic decisions	Uses basic methods and computer programs as well as production logistics techniques and tools necessary in the work of a logistician in order to diagnose processes of production logistics to make the right economic decisions	[SU4] test/exam - oral or written
	[MSG3_K05] correctly identifies, diagnoses and solves dilemmas and various options of solutions related to the profession	Correctly identifies, diagnoses and resolves dilemmas and various variants of solutions related to the profession of a logistician	[SK4] test/exam - oral or written
	[EKONL3_U06] uses the knowledge acquired in economics, finance and management to solve economic and social dilemmas arising in the professional context	Uses knowledge of economics, finance and management to solve production logistics problems that arise in the professional work of a logistician	[SU4] test/exam - oral or written
	[EKONL3_W06] have an advanced knowledge of selected methods and tools, including statistical and econometric techniques, for describing economic agents and structures as well as social institutions and the processes taking place in them	Has advanced knowledge of selected production logistics methods and tools. If necessary, consults with the teacher	[SW4] test/exam - oral or written
	[EKONL3_K05] correctly identifies, diagnoses and resolves professional dilemmas and different options for solutions	Correctly identifies, diagnoses and resolves dilemmas and various solution options related to the profession of a logistician	[SK4] test/exam - oral or written
Subject contents	1. Production logistics and economic efficiency Factors of economic process economization. The impact of production logistics on the economic efficiency of economic activity 2. Production logistics as a production process support system Systematization of production processes and processes supporting production processes. Components of the logistic system supporting production processes 3. Methods and tools of production logistics Sankey diagram as an instrument for optimizing production systems. Planning of material requirements. Production calculations in the field of material requirements. Operational research as a tool for solving problems of selecting production technologies, mixtures and transport 4. Production logistics systems Workshop, nest and flow production systems. Flexible production systems. Kanban. Factory of the future 5. Information systems in production logistics Integrated IT systems. Production visualization and control systems		
Prerequisites and co-requisites			
Assessment methods and criteria	Subject passing criteria	Passing threshold	Percentage of the final grade
	Test	51.0%	100.0%
Recommended reading	Basic literature	1) Logistyka produkcji. Red. M. Fertsch. ILiM, Poznan 2003 2) Mańkowski C.: Model symulacyjny logistyki produkcji wyrobów szklanych [W:] Zeszyty Naukowe Uniwersytetu Gdańskiego. Ekonomika Transportu Lądowego. Nr 39/2010. Available at http://ekonom.ug.edu.pl/web/download.php?OpenFile=440 (pp. 257-268) 3) Skowronek Cz., Sarjusz - Wolski Z.: Logistyka w przedsiębiorstwie. PWE. Warszawa 2000 4) Beier F., Rutkowski K.: Logistyka. SGH. Warszawa 2004	

	Supplementary literature	1) Durlik I.: Restrukturyzacja procesów gospodarczych. Agencja Wydawnicza "Placet". Warszawa 1998 2) Jońca A.: Logistyka produkcyjna. Wybór rozwiązań transportowych. Instytut Organizacji Przemysłu Maszynowego. Warszawa 1992 3) Czasopisma: "Logistyka Produkcji", "Przegląd przemysłowy", "Biuletyn Automatyki - Astor" (www.astor.com.pl)
	eResources addresses	
Example issues/ example questions/ tasks being completed	The role of logistics in production processes Production logistics systems IT software supporting production logistics systems	
Work placement	Not applicable	

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