

Subject card

Subject name and code	SAP ERP and Other IT Tools in Logistics, PG_00171487						
Field of study	Economics						
Date of commencement of studies	October 2025		Academic year of realisation of subject		2025/2026		
Education level	Master's studies		Subject group		Obligatory subject group in the field of study Specialty subject group		
Mode of study	full-time studies		Mode of delivery		at the university		
Year of study	1		Language of instruction		Polish		
Semester of study	2		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 Agnieszka Szmelter-Jarosz				
	Teachers		dr Agnieszka Szmelter-Jarosz dr Dorota Książkiewicz				
Lesson types	Lesson type	Lecture	Tutorial	Laboratory	Project	Seminar	SUM
	Number of study hours	0.0	0.0	30.0	0.0	0.0	30
	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	30		19.0		1.0	50
Subject objectives	To familiarize students with contemporary concepts of resource management						
	To familiarize students with the classification of IT tools used for resource planning in logistics.						
	To familiarize students with the flow of information and documentation in the enterprise.						
	Preparing students to use advanced solutions in the field of IT systems in logistics, incl in particular with ERP IT systems.						
	Preparing students to use IT solutions for warehouse management.						
	Familiarizing students with work based on the case study method.						

Learning outcomes	Course outcome	Subject outcome	Method of verification
	[EKONMU2_W08] has an in-depth knowledge of processes occurring in enterprises and economic organisations and with related areas, as well as of processes of change in public institutions; knows methods of research on the regularities governing these changes, taking into account the influence of external stakeholders on them	The student has in-depth knowledge of the processes taking place in enterprises and economic organizations The student understands the flow of information (and documentation) in logistics processes and systems, in particular in ERP IT systems.	[SW4] test/exam - oral or written
	[EKONMU2_U06] can practically apply various forms and range of acquired knowledge in economics, finance and management, supplementing it with an independent critical analysis of its efficiency and usefulness	The student has the ability to use the acquired knowledge in practice, supplementing it with an independent critical analysis of the effectiveness and usefulness of IT solutions in logistics The student is able to navigate ERP and WMS transaction systems	[SU5] implementation of a problem task [SU8] observation of student's independent or team work
	[EKONMU2_K04] is ready to think and act in an entrepreneurial manner; adapts to new situations and conditions; undertakes challenges of creative thinking; acquires resilience to failures; can assess risks and threats and find ways of counteracting their effects	The student is ready to think and act in an entrepreneurial way; makes decisions related to the implementation of logistics processes using IT tools The student is able to define priorities and plan activities related to resource management in relation to the demand reported by the customer	[SK5] implementation of a problem task [SK8] observation of student's independent or team work
Subject contents	1. Introduction to the issue of using IT tools in logistics 2. Introduction to working with the ERP SAP S4/HANA system 3. Basic functionalities, database, transactions, system navigation 4. Case studies - simulations of real logistics processes in the company production and trade on the example of the SD module (sales and distribution): 4.1. Creating a new customer record in the database 4.2. Entering a quote request from a client 4.3. Registration of an order from a customer 4.4. Launching the delivery process 4.5. Creating a download list and registering the shipment. 4.6. Issuing a sales invoice 4.7. Registration of payments from customers 4.8. Documentation flow review 5. TMS transport management systems 6. WMS systems 7. Digital platforms in logistics management 8. Directions of development of digital technologies in logistics Any doubts regarding the issues discussed during classes can be discussed during consultations.		
Prerequisites and co-requisites	Knowledge: Basic concepts and laws in the field of microeconomics. Basic knowledge of logistics processes and systems. Skills: computer skills (Windows, MS Office), basic English, knowledge of elements of logistics processes, ability to organize relationships between events and activities		
Assessment methods and criteria	Subject passing criteria	Passing threshold	Percentage of the final grade
	zadanie problemowe	51.0%	50.0%
	test	51.0%	50.0%

Recommended reading	Basic literature	Książkiewicz D.: Rozwój transportu, spedycji i logistyki w dobie globalizacji i cyfrowej gospodarki. Wydawnictwo Uniwersytetu Gdańskiego, Gdansk 2021 Szmelter-Jarosz A., Logistyczne aspekty racjonalnego wykorzystania systemów informatycznych, Wyd. UG, Gdansk 2020 Słedziwska K, Włoch R., Gospodarka cyfrowa. Jak nowe technologie zmieniają świat https://www.delab.uw.edu.pl/wp-content/uploads/2020/04/Katarzyna-%C5%9Aledziwska-Renata-W%C5%82och-Gospodarka-cyfrowa.pdf SAP UA - materiały wprowadzające do case studies i instrukcje do wykonywania ćwiczeń Nowoczesne technologie w logistyce, pod red. J. Długosza, PWE, Warszawa 2009 Szmelter A., Business intelligence jako element systemu zaopatrzenia informacyjnego, Roczniki Naukowe Wyższej Szkoły Bankowej w Toruniu. - 2013, nr 12 (12), s. 127-142
	Supplementary literature	Lysons K.: M. Zakupy zaopatrzeniowe. PWE, Warszawa 2004. Christopher M.: Logistyka i zarządzanie łańcuchem podaży. Wydaw. Prof. Szkoły Biznesu, Kraków 1998. Zintegrowane Systemy Zarządzania ERP w gospodarce wirtualnej, pod red. H. Sroki, Wydaw. AE w Katowicach, Katowice 2009
	eResources addresses	
Example issues/ example questions/ tasks being completed		
Work placement	Not applicable	

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