University of Gdańsk

Subject card

Subject name and code	SAP ERP and Other IT Tools in Logistics, PG_00199362		
Field of study	Economics		
Date of commencement of studies	October 2026	Academic year of realisation of subject	2026/2027
Education level	Master's studies	Subject group	Obligatory subject group in the field of study Optional subject group 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	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		

Lesson types

Lesson type	Lecture	Tutorial	Laboratory	Project	Seminar	SUM
Number of study hours	0.0	30.0	0.0	15.0	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	0.0	5.0	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.	[SW2] presentation/project/paper/ report
[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 including preparing a project in teams of 2-3 people in the field of software operation, which is discussed and approved during consultations with the lecturer and then presented during classes	[SU2] presentation/project/paper/ report [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	[SK2] presentation/project/paper/ report [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.

To receive a passing grade, you must score at least 51% of the total points in the practical section and 51% in the project section. The final grade is based on the total points from both the practical and project sections.

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
project	51.0%	50.0%
zadanie problemowe	51.0%	50.0%

Recommended reading	Basic literature	Książkiewicz D.: Rozwój transportu, spedycji i logistyki w dobie globalizacji i cyfrowej gospodarki. Wydawnictwo Uniwersytetu Gdanskiego, Gdansk 2021 Szmelter-Jarosz A., Logistyczne aspekty racjonalnego wykorzystania systemów informatycznych, Wyd. UG, Gdansk 2020 Sledziewska K, Włoch R., Gospodarka cyfrowa. Jak nowe technologie zmieniaja swiat https://www.delab.uw.edu.pl/wp-content/uploads/2020/04/Katarzyna-%C5%9Aledziewska-Renata-W%C5%82och-Gospodarka-cyfrowa.pdf SAP UA - materiały wprowadzajace do case studies i instrukcje do wykonywania cwiczen Nowoczesne technologie w logistyce, pod red. J. Długosza, PWE, Warszawa 2009 Szmelter A., Business intelligence jako element systemu zaopatrzenia informacyjnego, Roczniki Naukowe Wy¿szej 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 zarzadzanie łancuchem poda¿y. Wydaw. Prof. Szkoły Biznesu, Kraków 1998. Zintegrowane Systemy Zarzadzania 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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