

Course title		SAP ERP and Other IT Tools in Logistics and Mobility						ECTS code		14.3.EE.SZ.3589	
								ECTS credits		2	
Name of unit administrating study		OTHER		Field of study		Economics		Field of specialisation		L&M;	
Teaching staff		Agnieszka Szmelter-Jarosz, Ph.D. ; Dorota Książkiewicz, Ph.D.									
Number of hours											
Lectures	0	Classes		Tutorials	0	Laboratory	30	Seminars	0	Language classes	0
Forma aktywności							Year&Type of studies*		2 SS2,		
Hours with the participation of the academic teacher (including office hours, exams, others):							Semester:		3,		
Hours without the participation of the academic teacher (student's self-study, homeworks):							Type of course:		obligatory		
Total number of hours:					0		Language of instruction:		English		
Teaching form		in-class learning									
Teaching methods		Activating methods in training classes, Discussion, questioning, Work in computer laboratories, Case studies, Didactic games,									
Prerequisites (required courses and introductory requirements)											
Required courses		Passing the courses Managerial Economics and Supply Chain Management									
Introductory requirements		<p>Knowledge: Basic concepts and laws in the field of microeconomics. Basic knowledge of logistics processes and systems, supply chain management</p> <p>Skills: computer skills (Windows, MS Office), basics of the English language, knowledge of elements of logistic processes, the ability to organize relations between events and activities</p>									
Assessment method, forms and criteria											
Assessment method		Course completion (graded)									
Assessment criteria		<p>Final test: 51-60% - dst, 61-70% - dst +, 71-80% - db, 81-90% - db +, 91-100% - very good</p> <p>Possibility to receive additional points for activity</p> <p>The individual project will constitute 50% of the final grade</p> <p>The knowledge test will account for 50% of the final grade</p> <p>A positive mark should be obtained for both the individual project and the knowledge test</p>									
Course objectives											
<p>To acquaint students with contemporary concepts of resource management in an enterprise.</p> <p>To familiarize students with the classification of IT tools for resource planning in logistics.</p> <p>To familiarize students with the circulation of information and documentation in the enterprise.</p> <p>To prepare students to use advanced solutions in the field of IT systems in logistics, in particular with global ERP-class IT systems.</p> <p>To prepare students to use IT solutions for warehouse management.</p> <p>To familiarize students with work based on the case study method.</p>											
Learning outcomes											
Knowledge		E2_W08		The student has an in depth knowledge of the processes taking place in enterprises and economic organisations							
		E2_W08		The student understands the flow of information (and documentation) in logistics processes and systems, in particular in IT systems.							
Verification of learning outcomes - Knowledge											

Outcomes	written exam	oral exam	test	essay/paper /portfolio	tasks/ homeworks	individual presentation	group presentation	classroom activities	classroom discussion	individual project	group project
E2_W08			X							X	
Skills	E2_U06	The student uses the acquired knowledge in practice, supplementing it with an independent critical analysis of the effectiveness and usefulness of IT solutions in logistics									
	E2_U06	The student is able to navigate in ERP and WMS class transaction systems and carries out business transactions									
Verification of learning outcomes - Skills											
Outcomes	written exam	oral exam	test	essay/paper /portfolio	tasks/ homeworks	individual presentation	group presentation	classroom activities	classroom discussion	individual project	group project
E2_U06			X					X	X	X	
Attitudes	E2_K04	The student is ready to think and act in an entrepreneurial manner; makes decisions related to the implementation of logistics processes using IT tools									
	E2_K04	The student is able to prioritize and plan activities related to resource management in relation to the customer's demand									
Verification of learning outcomes - Attitudes											
Outcomes	written exam	oral exam	test	essay/paper /portfolio	tasks/ homeworks	individual presentation	group presentation	classroom activities	classroom discussion	individual project	group project
E2_K04								X	X	X	
Course contents											
<ol style="list-style-type: none"> 1. Introduction to IT in logistics 2. Introduction to working using the ERP SAP S4/HANA system 3. Basic functionalities, database, transactions, navigation in the system 4. Case studies - simulations of real logistics processes in a production and trade company on the example of the SD module (sales and distribution): <ol style="list-style-type: none"> 4.1. Create a new customer record in the database 4.2. Entering an inquiry from the customer 4.3. Order registration from the customer 4.4. Launching the delivery process 4.5. Creation of a picking list and registration of shipment sending. 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 - warehouse management systems 											

7. Digital logistics platforms in logistics management

8. Digital technology development in logistics

Recommended reading lists

Basic literature:

SAP UA instructions

Technological Revolution. Directions in the development of the transport-forwarding-logistics sector, Publikacje i projekty - PITD,

Matusiewicz M., Logistics of the future - Physical Internet and its practicality, Transportation Journal, 2020, vol. 59, no 2

H. Nozari, M. Fallah, A. Szmelter-Jarosz, "A conceptual framework of green smart IoT-based supply chain management", International Journal of Research in Industrial Engineering, t. 10, nr 1, ss. 22-34, 2021.

Supplementary literature:

H. Nozari, M. Fallah, A. Szmelter-Jarosz, M. Krzemiński, "Analysis of security criteria for IoT-based supply chain: a case study of FMCG industries", Central European Management Journal, t. 29, nr 4, ss. 1-23, 2021.

H. Gleissner, J.C. Femerling (2013) IT in Logistics. In: Logistics. Springer Texts in Business and Economics. Springer, Cham. https://doi.org/10.1007/978-3-319-01769-3_9

D. Daniluk, B. Holtkamp (2015) Logistics & A Cloud Platform for Logistics. In: ten Hompel M., Rehof J., Wolf O. (eds) Cloud Computing for Logistics. Lecture Notes in Logistics. Springer, Cham. https://doi.org/10.1007/978-3-319-13404-8_2

Contact

agnieszka.szmelter-jarosz@ug.edu.pl, dorota.ksiazkiewicz@ug.edu.pl,

* SS1- undergraduate studies * SS2 - graduate studies * SDang - doctoral studies
** MSG - International Economic Relations