University of Gdańsk

Subject card

Subject name and code	Resource Planning Tools, PG_00200053		
Field of study	Economics		
Date of commencement of studies	October 2026	Academic year of realisation of subject	2027/2028
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	part-time studies	Mode of delivery	at the university
Year of study	2	Language of instruction	Polish
Semester of study	4	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	8.0	0.0	5.0	0.0	13

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	13	0.0	37.0	50

Subject objectives

To familiarize students with modern concepts of resource management in an enterprise.
To familiarize students with the classification of tools used for resource planning in logistics, in particular with ERP IT systems.
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, in particular global ERP IT systems.
Preparing students to use IT solutions for warehouse management (WMS systems).

Learning outcomes	Course outcome	Subject outcome	Method of verification
	[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 uses knowledge of IT systems in logistics and 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_W07] has an in-depth knowledge of economic and financial principles governing the functioning and management of economic entities and organisations, as well as of systems of legal, organisational, professional, moral and ethical norms and rules organising public structures and institutions, both in the national and international spheres	The student understands the principles of integrated resource planning in logistics	[SW4] test/exam - oral or written [SW5] implementation of a problem task
	[EKONMU2_U08] can independently analyse economic and social phenomena and processes, and can perform a theoretically deepened assessment of such phenomena, using appropriately selected research method	The student makes economic decisions regarding resource management in the sphere of supply, production and distribution	[SU5] implementation of a problem task [SU8] observation of student's independent or team work
	[EKONMU2_K02] is aware of the level of their knowledge in the area of solving complex problems in economic,; understands the need to extend and update this knowledge throughout his/her life	The student understands the need to expand knowledge in the field of resource management in the enterprise, the use of statistical methods and the operation of related IT systems	[SK8] observation of student's independent or team work
	[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 knowledge about logistics processes and their participants	[SW4] test/exam - oral or written [SW5] implementation of a problem task
	[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 able to define priorities and plan activities related to resource management in relation to the demand reported by the customer	[SK8] observation of student's independent or team work

Subject contents	1. Introduction to the issue of using ERP IT tools in supply chains. Overview of major suppliers. Discussion of the following areas of knowledge: information systems in logistics management; information flows in logistics processes enterprises; history, essence and functions of ERP systems. 2. Introduction to ERP IT tools from ELSE: history of ELSE and the development of its product portfolio; ELSE applications in managing information flow in the enterprise. 3. Structure and functionalities of ELSE.ERP and ELSE.WMS. 4. System navigation. 5. Work in ELSE.ERP and ELSE.WMS applications - case studies - simulation of real processes in the enterprise: 5.1. Forecasting needs and purchasing supplies. 5.2. High-bay warehouse management. 6. Introduction to working with the SAP ERP 6.0 application. History of the company's development, presentation of the product portfolio. 7. Basic functionalities of SAP ERP, application structure. 8. Case studies - simulations of real logistics processes in the enterprise on the example of the SD module (sales and distribution) Doubts regarding how to solve problem tasks and interpret the substantive content related to the subject will be discussed during consultations.
Prerequisites and co-requisites	

Assessment methods and criteria	Subject passing criteria	Passing threshold	Percentage of the final grade
	test	51.0%	50.0%
	case studies	51.0%	50.0%
Recommended reading	Basic literature	Chaberek M.: Makro- i mikroekonomiczne aspekty wsparcia logistycznego. Wyd. Uniwersytetu Gdańskiego, Gdańsk 2002. ELSE- materiały i instrukcje do wykonywania ćwiczeń SAP UA - materiały wprowadzające do case studies i instrukcje do wykonywania ćwiczeń Majewski J.: Informatyka dla logistyki, Instytut Logistyki i Magazynowania, Poznań 2002 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 Szmelter A., Communication in global supply chains in automotive industry, Information Systems in Management 2015, Vol. 4, no 3, p. 205-218 Szmelter A., Informatyka w logistyce, w: Informatyka ekonomiczna, pod red. S. Wryczy i J. Maślankowskiego, Wyd. PWN, Warszawa 2019, s. 701- 730.	
	Supplementary literature	Lysons K.: M. Zakupy zaopatrzeniowe. PWE, Warszawa 2004. Christopher M.: Logistyka i zarządzanie łańcuchem poda¿y. 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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