

Subject card

Subject name and code	Company management with SAP ERP, PG_00178101						
Field of study	Economics, International Economic Relations						
Date of commencement of studies	October 2024		Academic year of realisation of subject		2025/2026		
Education level	Master's studies		Subject group		Obligatory subject group in the field of study Optional subject group		
Mode of study	full-time studies		Mode of delivery		at the university		
Year of study	2		Language of instruction		English		
Semester of study	3		ECTS credits		5.0		
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				
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						
	Additional information: Work in computer laboratories, Case studies, Activating methods in training classes						
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	Introduction to management accounting. Introduction to cost center accounting and product costing. The rules of resources planning. Showing the functioning of ERP applications, especially with the SAP ERP 6.0. Preparing students to work in companies with a global range (on the basis of case studies). Problem solving with use of						

Learning outcomes	Course outcome	Subject outcome	Method of verification
	[MSGMU2_W05] has an in-depth knowledge of the world economy, principles of global market functioning and international financial relations as well as the process of their evolution; understands the causes, regularities and consequences of occurring changes	Student characterizes the functioning of ERP systems and their impact on the flow of information across the enterprise and supply chain	[SW3] text preparation/written work
	[MSGMU2_W08] knows and understands the terms and principles of intellectual (industrial) property protection and copyright law; understands the necessity of intellectual property management	Student characterizes the functioning of ERP systems and their impact on the flow of information across the enterprise and supply chain	[SW3] text preparation/written work
	[MSGMU2_W13] knows and understands methods and tools for describing economic phenomena, including data acquisition techniques, which make it possible to describe and analyse economic entities functioning on the international market as well as processes and phenomena occurring in them and between them, and also those supporting decision-making processes	Student understands the importance of transactional systems (especially ERP) in business process management	[SW3] text preparation/written work
	[MSGMU2_U04] can use the acquired knowledge to formulate and solve complex problems related to the operation of economic entities on the international market, with particular emphasis on the European Union market	Student is able to plan the resources used in business process execution based on the available data.	[SU5] implementation of a problem task [SU8] observation of student's independent or team work
	[MSGMU2_K01] is ready to recognise the importance of knowledge of economics in the process of identifying and solving problems in the area of international economic relations and to consult experts in case of difficulties in solving them independently	Student is open to new methods for solving decision problems in the area of management accounting	[SK5] implementation of a problem task [SK8] observation of student's independent or team work
	[MSGMU2_U11] independently formulates and tests hypotheses related to simple research problems, appropriately selects and applies methods and tools, including statistical tools and data acquisition techniques in order to verify hypotheses and diagnose economic processes, and on this basis to take appropriate economic decisions	Student is able to plan the resources used in business process execution based on the available data.	[SU5] implementation of a problem task [SU8] observation of student's independent or team work
	[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	Student is able to plan the resources used in business process execution based on the available data.	[SU5] implementation of a problem task [SU8] observation of student's independent or team work
	[EKONMU2_U03] can analyse causes and course of economic and social processes and phenomena, formulate his/her own opinions on the subject, construct research hypotheses, and select and apply methods of their verification	Student is able to plan the resources used in business process execution based on the available data.	[SU5] implementation of a problem task [SU8] observation of student's independent or team work
	[EKONMU2_W03] has an in-depth knowledge of relations between economic phenomena, entities and organisations as well as public institutions functioning in the national, international and intercultural spheres	Student understands the importance of transactional systems (especially ERP) in business process management Student characterizes the functioning of ERP systems and their impact on the flow of information across the enterprise and supply chain	[SW3] text preparation/written work

	Course outcome	Subject outcome	Method of verification
	[EKONMU2_K01] recognises the importance of knowledge in the field of economics in the process of identifying and solving economic problems and of consulting experts when having difficulties in solving them independently	Student is open to new methods for solving decision problems in the area of management accounting	[SK5] implementation of a problem task [SK8] observation of student's independent or team work
Subject contents	1. Introduction to ERP systems and SAP S4/HANA: 1.1. Characteristics of systems 1.2. The architecture of systems 1.3. Main vendors of ERP and Business Analytics solutions 2. Navigation in SAP ERP 3. Management Accounting in SAP ERP: 3.1. Introduction: - Goals and structure of management accounting, - Cost center analysis, - Analysis of profit centers, - Budget analysis, - Master data for the controlling area (cost centers, profit centers, temporary cost and profit centers, cost elements, profit components, statistical indicators), - Management accounting processes. - Assessment of the management accounting system. Case studies in management accounting area. Defining problems in the area of management accounting (management staff needs) and solving them with use of Design Thinking method (empathise, define the problem, ideate, prototype, test) and part of Lean Six Sigma methodology with use of Excel and Statistica software. 3.2. Cost Center Accounting: - Creating a cost center in a database, - Creating a new index in the database, - Creating a cost element for ancillary activities, - Creating new cost center activities, - Creating a record for a group of cost centers, - Planning the number of employees, - Planning the activity of the cost center, - Overview of plans, - Evaluating the activity of the cost centers, - Analysis of evaluation results, - Price calculation for individual products, - Analysis of valuation results. 3.3. Product Costing: - Creating a record in the database for a product variant, - Creating a record for the raw material variant, - Creation of the Bill of Materials (Bill of Materials), - Creation of a technological route (routing), - Creation of cost estimates for the core business, - Updating product prices, - Review of product price changes, - Confirming price changes, - Product price control.		
Prerequisites and co-requisites	Knowledge: Basic theories and principles of microeconomics, finance, enterprise management and information systems. Basic knowledge about the logistics processes and systems. Skills: computer skills (Windows, MS Office), good knowledge of English language		
Assessment methods and criteria	Subject passing criteria	Passing threshold	Percentage of the final grade
	essay	51.0%	50.0%
	ongoing in-class assessment	51.0%	50.0%
Recommended reading	Basic literature	Szmelter A., Communication in global supply chains in the automotive industry, Information Systems in Management 2015, Vol. 4, no 3, p. 205-218 materials from SAP University Alliances materials provided by the lecturer - case studies	
	Supplementary literature	E. Monk, B. Wagner, Enterprise Resource Planning, Cengage Learning EMEA, 2008. G. C. Williams, Implementing SAP ERP Sales&Distribution, McGraw Hill Professional, 2008. J. Kappauf, B. Lauterbach, M. Koch, Logistics Core Operations with SAP, Springer, 2011. L. K. Lau, Managing Business with SAP: Planning, Implementation and Evaluation, Idea Group Inc., 2005. R.I. Levin. Statistics for Management, Pearson Education, 2008 (or older editions).	
	eResources addresses		

Example issues/ example questions/ tasks being completed	
Work placement	Not applicable

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