

Subject card

Subject name and code	Company management with SAP ERP, PG_00178101						
Field of study	Economics, International Economic Relations, International Business						
Date of commencement of studies	October 2023		Academic year of realisation of subject		2025/2026		
Education level	Bachelor's studies		Subject group		Obligatory subject group in the field of study		
Mode of study	full-time studies		Mode of delivery		at the university		
Year of study	3		Language of instruction		English		
Semester of study	5		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 Design Thinking method (non-mathematical methods), Excel and Statistica software (mathematical methods)						

Learning outcomes	Course outcome	Subject outcome	Method of verification
	[IBL3_K01] is ready to recognise the importance of knowledge in the field of international business in identifying and solving business theoretical and practical issues; is ready to consult with experts in case of facing difficulties in solving business issues individually	Student is open to new methods for solving decision problems in different areas of business activity.	[SK5] implementation of a problem task [SK8] observation of student's independent or team work
	[MSG3_K04] is ready to think and act in an entrepreneurial manner; adapts to new situations and conditions, undertakes challenges of creative thinking; is resilient to failures; can identify threats and assess the risk of their occurrence	Student is open to new methods for solving decision problems in different areas of business activity.	[SK5] implementation of a problem task [SK8] observation of student's independent or team work
	[MSG3_U08] uses basic methods and computer programmes as well as marketing techniques and tools to acquire and analyse data necessary in his/her professional work to diagnose economic processes and make adequate economic decisions	Student is able to plan the resources used in business process execution based on the available data.	[SU1] oral statement/conversation/discussion [SU5] implementation of a problem task [SU8] observation of student's independent or team work
	[EKONL3_W11] knows the general principles for the creation and development of forms of individual entrepreneurship, using knowledge of economics, finance and management sciences	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
	[EKONL3_U06] uses the knowledge acquired in economics, finance and management to solve economic and social dilemmas arising in the professional context	Student is able to plan the resources used in business process execution based on the available data.	[SU1] oral statement/conversation/discussion [SU5] implementation of a problem task [SU8] observation of student's independent or team work
	[EKONL3_W05] has advanced knowledge of man as a subject who creates social structures and the principles of their functioning and of his action in these structures, knows well the motives of human economic decision-making	Student understands the importance of transactional systems (especially ERP) in business process management	[SW3] text preparation/written work
	[MSG3_U02] can assess economic and social phenomena occurring in an open economy, interpret necessary statistical data and economic indicators, as well as forecast economic phenomena and processes, using standard methods and tools applied in economic sciences	Student is able to plan the resources used in business process execution based on the available data.	[SU1] oral statement/conversation/discussion [SU5] implementation of a problem task [SU8] observation of student's independent or team work
	[MSG3_W10] knows selected methods and tools, including IT tools and data acquisition techniques, which make it possible to describe and analyse economic entities operating on the international market; knows the processes and phenomena occurring in them and between them, and processes supporting decision-making	Student characterizes the functioning of ERP systems and their impact on the flow of information across the enterprise and supply chain	[SW1] oral statement/conversation/discussion [SW3] text preparation/written work
	[MSG3_W03] has an advanced and structured knowledge of the world economy and international economic relations; understands the process of their evolution, including its causes and consequences	Student understands the importance of transactional systems (especially ERP) in business process management	[SW3] text preparation/written work
	[IBL3_U03] is able to perform tasks in uncertain conditions, solve complex issues of international business by appropriate selection information sources, conducting critical analysis and synthesis on the collected information and data	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

	Course outcome	Subject outcome	Method of verification
	[EKONL3_K05] correctly identifies, diagnoses and resolves professional dilemmas and different options for solutions	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
	[EKONL3_K04] is willing to think and act in an entrepreneurial manner; adapts to new situations and conditions, takes on the challenges of creative thinking, is resilient in the face of failure, is able to identify risks and assess the risks of failure	Student is open to new methods for solving decision problems in different areas of business activity.	[SK5] implementation of a problem task [SK8] observation of student's independent or team work
	[IBL3_W03] knows and understands selected research methods and tools, including IT tools and data acquisition techniques, which are applicable to international business issues	Student understands the importance of transactional systems (especially ERP) in business process management	[SW3] text preparation/written work
	[IBL3_U01] can interpret and explain economic phenomena, analyse their causes, course and connections within these phenomena using the acquired knowledge of international business, economics and finance and complementary disciplines	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
	[EKONL3_U02] is able to use the knowledge of theory and data to analyse concrete economic and social processes and phenomena and to analyse these phenomena using methods developed in economics, finance and management sciences	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
	[IBL3_W08] knows and understands principles of economic decision making by individuals acting within social and business structures	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

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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