

Course title	Company management with use of ERP system							ECTS code	14.03.5342													
								ECTS credits	5													
								max. students	35													
Name of unit administrating study	KL	Field of study	Economics/MSG**	Field of specialisation	NONE;																	
Teaching staff	Agnieszka Szmelter-Jarosz, Ph.D.																					
Number of hours																						
Lectures	0	Classes	0	Tutorials	0	Laboratory	30	Seminars	0	Language classes	0											
Forma aktywności							Year&Type of studies*	3 SS1, 1 SS2, 2 SS2,														
Hours with the participation of the academic teacher (including office hours, exams, others):							Semester:	5, 1, 3,														
Hours without the participation of the academic teacher (student's self-study, homeworks):							Type of course:	optional														
Total number of hours:							0	Language of instruction:	English													
Teaching form	in-class learning																					
Teaching methods	Work in computer laboratories, Case studies, Activating methods in training classes, Design Thinking																					
Prerequisites (required courses and introductory requirements)																						
Required courses	Microeconomics, Macroeconomics, Basics of Computer Science, Basics of Financial Accounting and Economic Analysis. Fundamentals of managerial accounting and production planning would be welcome.																					
Introductory requirements	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 method, forms and criteria																						
Assessment method	Exam																					
Assessment criteria	An essay on a chosen topic related to the subject (50% of final grade) Solving case studies and discussion in class (50% of final grade)																					
Course 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																						
Knowledge	E1_W02	Student understands the importance of transactional systems (especially ERP) in logistic processes in accordance with the principle of 6R.																				
	MSG1_W03	Student understands the importance of transactional systems (especially ERP) in logistic processes in accordance with the principle of 6R.																				
	E1_W06	Student understands the rules of management accounting, especially cost center accounting and product costing.																				
	MSG1_W05	Student understands the rules of management accounting, especially cost center accounting and product costing.																				
	E1_W07	Student understands connections between management accounting and business processes planning and execution.																				
	MSG1_W05	Student understands connections between management accounting and business processes planning and execution.																				
Verification of learning outcomes - Knowledge																						
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Outcomes	written exam	oral exam	test	essay/paper /portfolio	tasks/ homeworks	individual presentation	group presentation	classroom activities	classroom discussion	individual project	group project
E1_W02				X				X			
E1_W06				X				X			
E1_W07				X				X			
MSG1_W03				X				X			
E1_W05				X				X			

Skills	E1_U02	Student uses information technology in the area of ERP systems.
	MSG1_U08	Student uses information technology in the area of ERP systems.
	E1_U07	Student is able to plan the resources used in business process execution.
	MSG1_U04	Student is able to plan the resources used in business process execution.

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
E1_U02								X			
E1_U07				X				X			
MSG1_U04				X				X			
MSG1_U08								X			

Attitudes	E1_K01	Student works independently, expanding his skills and knowledge
	MSG1_K01	Student works independently, expanding his skills and knowledge
	E1_K06	Student is open to new methods for solving decision problems in the area of management accounting.
	MSG1_K06	Student is open to new methods for solving decision problems in the area of management accounting.

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
E1_K01								X	X		
E1_K06								X	X		
MSG1_K01								X	X		
MSG1_K06								X	X		

Course 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.

Recommended reading lists

Basic:

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

Facultative:

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).

Contact

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