

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										
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.									
	E2_W02	Student understands the importance of transactional systems (especially ERP) in logistic processes in accordance with the principle of 6R.									
	E2_W07	Student understands the rules of management accounting, especially cost center accounting and product costing.									

	E2_W08	Student understands connections between management accounting and business processes planning and execution.
	MSG2_W03	Student understands the importance of transactional systems (especially ERP) in logistic processes in accordance with the principle of 6R.
	MSG2_W05	Student understands connections between management accounting and business processes planning and execution.
	MSG2_W05	Student understands the rules of management accounting, especially cost center accounting and product costing.

**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
E1_W02				X				X			
E1_W06				X				X			
E1_W07				X				X			
MSG1_W03				X				X			
E1_W05				X				X			
E2_W02				X				X			
E2_W07				X				X			
E2_W08				X				X			
MSG2_W03				X				X			
MSG2_W05				X				X			

<b>Skills</b>	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.
	E2_U02	Student uses information technology in the area of ERP systems.
	E2_U08	Student is able to plan the resources used in business process execution.
	MSG2_U04	Student uses information technology in the area of ERP systems.
	MSG2_U09	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				X			
E1_U07				X				X			
MSG1_U04				X				X			
MSG1_U08				X				X			
E2_U02				X				X			
E2_U08				X				X			
MSG2_U02				X				X			
MSG2_U09				X				X			
<b>Attitudes</b>	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.
	E2_K02	Student works independently, expanding his skills and knowledge
	E2_K04	Student is open to new methods for solving decision problems in the area of management accounting.
	MSG2_K02	Student works independently, expanding his skills and knowledge
	MSG2_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		
E2_K02								X	X		
E2_K04								X	X		
MSG2_K02								X	X		
MSG2_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
3. Management Accounting in SAP :
  - 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:*

J. Kappauf, B. Lauterbach, M. Koch, Logistics Core Operations with SAP, Springer, 2011.

Okungbowa, A., SAP ERP Financial Accounting and Controlling,

[https://books.google.pl/books?id=QmInCgAAQBAJ&printsec=frontcover&redir\\_esc=y#v=onepage&q&f=false](https://books.google.pl/books?id=QmInCgAAQBAJ&printsec=frontcover&redir_esc=y#v=onepage&q&f=false)

Contact

[agnieszka.szmelter-jarosz@ug.edu.pl](mailto:agnieszka.szmelter-jarosz@ug.edu.pl),

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