Course title	Supply management and production planning in SAP ERP (excluding IB)	ECTS code	14.03.5373
		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. ; Dariusz Weiland, Msc.

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:	6, 2, 4,
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, Lectures including multimodal presentations, Discussion, questioning,

Prerequisites (required courses and introductory requirements)	
Required courses	Microeconomics, Introduction to Computer Science, Economic Analysis Fundamentals of logistics would be welcome
Introductory requirements	Knowledge: Basic theories and principles of microeconomics, 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	Course completion (graded)
Assessment criteria	An essay on a chosen topic related to the subject (50% of final grade) Solving case studies in class (50% of final grade) Both parts of the course (in-class activities and essay) are obligatory.

Course objectives
Showing the role of ERP systems (transactional systems) in realizing an efficient flow of resources in logistics systems (case study). Showing to students the tools used to support the sphere of supply and production in the company (case study). Gaining skills by students to handle with SAP ERP system.

Learning outcomes		
Knowledge	E1_W03	Student understands the role of information systems in the proper implementation of logistics processes. Student characterizes the operation of ERP systems and their impact on the flow of information across the enterprise.
	E2_W03	Student understands the role of information systems in the proper implementation of logistics processes. Student characterizes the operation of ERP systems and their impact on the flow of information across the enterprise.
	MSG1_W10	Student understands the role of information systems in the proper implementation of logistics processes. Student characterizes the operation of ERP systems and their impact on the flow of information across the enterprise.
	MSG2_W13	Student understands the role of information systems in the proper implementation of logistics processes. Student characterizes the operation of ERP systems and their impact on the flow of information across the enterprise.

Verification of learning outcomes - Knowledge

Outcomes													

Outcomes	written exam	oral exam	test	essay/paper /portfolio	tasks/ homeworks	individual presentation	group presentation	classroom activities	classroom discussion	individual project	group project
E1_W03				X					X		
MSG1_W10				X					X		
E2_W03				X					X		
MSG2_W13				X					X		

Skills		
	E1_U02	Student organizes and implements the process of ordering goods from a supplier. Student organizes and executes production process.
	E2_U04	Student organizes and implements the process of ordering goods from a supplier. Student organizes and executes production process.
	MSG1_U07	Student organizes and implements the process of ordering goods from a supplier. Student organizes and executes production process.
	MSG2_U07	Student organizes and implements the process of ordering goods from a supplier. Student organizes and executes production process.

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			
MSG1_U07								X			
E2_U04								X			
MSG2_U07								X			

Attitudes		
	E1_K04	Student is able to communicate with suppliers and customers in order to plan seamless flow of resources in the area of sourcing and production.
	MSG1_K04	Student is able to communicate with suppliers and customers in order to plan seamless flow of resources in the area of sourcing and production.
	E2_K04	Student is able to communicate with suppliers and customers in order to plan seamless flow of resources in the area of sourcing and production.
	MSG2_K04	Student is able to communicate with suppliers and customers in order to plan seamless flow of resources in the area of sourcing and production.

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_K04								X	X		
E1_K07								X	X		
MSG1_K04								X	X		
MSG1_K06								X	X		

Course contents

1. Introduction to ERP systems:
1.1. Characteristics of ERP systems
1.2. Architecture of ERP systems
1.3. Main vendors of ERP solutions
2. General information about SAP AG and its products

3. Introduction to GBI study
4. Navigation in SAP ERP
5. Materials Management module in SAP ERP (case study):
5.1. Introduction to MM study
5.2. Creating new records in master data
5.3. Creating purchase requisitions and requests for quotation
5.4. Maintaining quotations from vendors
5.5. Creating purchase orders and goods receipts
5.6. Verifying physical receipts
5.7. Posting payment to vendors
6. Production Planning module in SAP ERP (case study):
6.1. Introduction to PP study
6.2. Creating and changing records in Material Master
6.3. Changing routing
6.4. Creating SOP (Sales and Operation Plan)
6.5. Running Master Production Schedule
6.6. Creating production orders
6.7. Confirming production completion
6.8. Receiving goods form production orders
6.9. Review of costs assigned to production orders

Recommended reading lists

Basic:
Szmelter A., *Communication in global supply chains in automotive industry,* Information Systems in Management 2015, Vol. 4, no 3, p. 205-218
materials of SAP Unversity Alliances
Facultative:
O'Leary D.E., *Enterprise Resource Planning Systems. Systems, Life Cycle*, Electronic Commerce and Risk, Cambridge University Press, 2000.
Magal S.R., Word J., *Integrated Business Processes with ERP Systems*, Jhn Wiley & Sons, 2011.
Murray M., *Discover logistics with SAP ERP*, Galileo Press, 2008.
Dickersbach J.T., Keller G., *Production Planning and Control with SAP ERP*, Galileo Press, 2011.
Kletti J., *Manufacturing Execution System - MES*, Springer, 2007.

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