

Subject card

Subject name and code	Supply management and production planning in SAP ERP, PG_00083787						
Field of study	Logistics and Mobility						
Date of commencement of studies	October 2024		Academic year of realisation of subject		2025/2026		
Education level	Master's studies		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	4		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, Lectures including multimodal presentations, Discussion, questioning						
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	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	Course outcome	Subject outcome	Method of verification
	[LMMU2_W04] knows different types of economic and social ties and regularities governing them; has an in-depth knowledge of ties between enterprises which require logistics support or provide logistics services	Student understands the connections between management practices, business processes planning and execution, and integrated management systems like ERP.	[SW3] text preparation/written work [SW5] implementation of a problem task
	[LMMU2_K04] is ready to think and act in an entrepreneurial manner; adapts to new situations and conditions; undertakes challenges of creative thinking; acquires resilience to failures; can assess risks and threats and find ways of counteracting their effects	Student is open to new methods for solving decision problems in the areas of supply management and production planning and execution.	[SK1] oral statement/conversation/discussion [SK5] implementation of a problem task [SK8] observation of student's independent or team work
	[LMMU2_U03] can analyse causes and course of logistics and mobility processes and systems, formulate his/her own opinions on the subject, construct research hypotheses, and select and apply methods of their verification	Student can plan the resources used in business process execution in supply management and production planning	[SU5] implementation of a problem task [SU8] observation of student's independent or team work
	[LMMU2_U06] can practically apply various forms and range of acquired knowledge in logistics and mobility, supplementing it with an independent critical analysis of its efficiency and usefulness	Student can assess critically the data and forecast future actions in a company and supply chain	[SU1] oral statement/conversation/discussion [SU5] implementation of a problem task [SU8] observation of student's independent or team work
Subject 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 from production orders 6.9. Review of costs assigned to production orders Additional issues will be discussed within group or individual consultations.		
Prerequisites and co-requisites	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 methods and criteria	Subject passing criteria	Passing threshold	Percentage of the final grade
	essay	51.0%	50.0%
	ongoing assessment of in-class activities	51.0%	50.0%
Recommended reading	Basic literature	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 University Alliances	

	Supplementary literature	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, John 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.
	eResources addresses	
Example issues/ example questions/ tasks being completed		
Work placement	Not applicable	

Document generated electronically. Does not require a seal or signature.