

Subject card

Subject name and code	Supply management and production planning in SAP ERP, PG_00083787						
Field of study	Economics, International Economic Relations						
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 Optional subject group		
Mode of study	full-time studies		Mode of delivery		at the university		
Year of study	3		Language of instruction		Polish		
Semester of study	6		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 mgr Dariusz Weiland				
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
	[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	[SW3] text preparation/written work [SW5] implementation of a problem task
	[MSG3_W05] knows and understands the basic principles of establishing and developing various forms of entrepreneurship	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
	[EKONL3_K01] recognises the importance of economic knowledge in identifying and solving economic problems and of consulting experts when difficulties in solving them independently	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
	[EKONL3_W06] have an advanced knowledge of selected methods and tools, including statistical and econometric techniques, for describing economic agents and structures as well as social institutions and the processes taking place in them	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 [SW5] implementation of a problem task
	[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 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
	[EKONL3_W08] has knowledge of the processes of changing elements, enterprises and whole structures of economic organisations, as well as the processes of changing social institutions, knows what their causes, course, scale, consequences are and what the influence of external stakeholders is on them	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
	[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 the areas of supply management and production planning and execution	[SK1] oral statement/conversation/discussion [SK5] implementation of a problem task
	[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 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

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 form production orders 6.9. Review of costs assigned to production orders Additional issues will be discussed within individual or group 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
	ongoing assessment of in-class activities	51.0%	50.0%
	essay	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	OLeary 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.	
	eResources addresses		
Example issues/ example questions/ tasks being completed			
Work placement	Not applicable		

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