University of Gdańsk

Subject card

Subject name and code	SAP S/4HANA Academy , PG_00198987						
Field of study	Economics						
Date of commencement of studies	October 2026		Academic year of realisation of subject		2028/2029		
Education level	Bachelor's studies		Subject group		Obligatory subject group in the field of study Optional subject group Subject group related to scientific research in the field of study		
Mode of study	full-time studies		Mode of delivery		at the university		
Year of study	3		Language of instruction		Polish		
Semester of study	5		ECTS credits		3.0		
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						
Lesson types	Lesson type	Lecture	Tutorial	Laboratory	Project	Seminar	SUM
	Number of study hours	0.0	30.0	0.0	15.0	0.0	45
	E-learning hours included: 0.0						
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	45		0.0		30.0	75
Subject objectives	To introduce students to the structure, functionalities, and real-world applications of SAP S/4HANA as a leading ERP system. To develop practical skills in navigating and using SAP S/4HANA modules, with a focus on management accounting and business process integration. To equip students with the ability to analyze, plan, and optimize enterprise data and processes using SAP tools and methodologies						

Learning outcomes

Course outcome	Subject outcome	Method of verification
[EKONL3_K02] is aware of the level of knowledge in the field of economics and understands the need to deepen and update this knowledge throughout life	The student shows initiative in exploring SAP S/4HANA functionalities and stays open to continuous development in enterprise IT systems.	[SK8] observation of student's independent or team work
[EKONL3_U06] uses the knowledge acquired in economics, finance and management to solve economic and social dilemmas arising in the professional context	The student is capable of applying SAP tools to simulate and analyze real business processes and generate actionable insights	[SU8] observation of student's independent or team work
[EKONL3_W06] has 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	The student knows the principles of business process integration in SAP, including finance, controlling, and logistics processes.	[SW4] test/exam - oral or written
[EKONL3_W07] has an advanced knowledge of the economic and financial principles of the functioning and management of economic entities and organisations as well as the legal, organisational, moral and ethical norms and rules governing the functioning of public institutions	The student understands the core architecture and functional modules of SAP S/4HANA and its role in enterprise resource planning. The student is familiar with the terminology, data structures, and best practices for configuring and managing enterprise operations within SAP.	[SW4] test/exam - oral or written
[EKONL3_K04] is willing to think and act in an entrepreneurial manner; adapts to new situations and conditions, takes on the challenges of creative thinking, is resilient in the face of failure, is able to identify risks and assess the risks of failure	The student demonstrates responsibility and attention to detail when working with sensitive business data in ERP systems.	[SK8] observation of student's independent or team work
[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	The student uses knowledge of processes and their implementation in ERP-class systems to analyze data and make decisions.	[SU8] observation of student's independent or team work

Subject contents

Introduction to SAP S/4HANA Overview of ERP systems and the evolution from SAP ECC to S/4HANA.
System Architecture and Data Models Understanding in-memory computing, data structures, and system design in S/4HANA.
Navigation in SAP S/4HANA Learning the SAP Fiori interface, user roles, and basic system operations.
Master Data Management Managing core data elements like customers, vendors, materials, and cost objects.
Business Process Integration Understanding how SAP modules interact across procurement, production, and finance.
Exercises in modules: Materials Management, Production Planning and Execution, Warehouse Management, Plant Maintenance, Quality Management, Sales and Distribution
Case study in Materials Management, Production Planning and Execution, Sales and Distribution, optionally Warehouse Management
Other related solutions of SAP (SAP Analytics Cloud, Sustainability Control Tower, Crystal Reports, others)

Any doubts regarding the issues discussed during classes can be discussed during consultations.

Prerequisites and co-requisites

Assessment methods and criteria

Subject passing criteria	Passing threshold	Percentage of the final grade
test	51.0%	50.0%
ongoing assessment - making exercises in SAP	51.0%	50.0%

Recommended reading	Basic literature	Szmelter-Jarosz, A. (2020). Logistyczne aspekty racjonalnego wykorzystania systemów informatycznych (s. 172). Wydawnictwo Uniwersytetu Gdańskiego. materials of SAP University Alliances - exercises, slides, case studies, Szmelter-Jarosz, A. (2019). Informatyka w logistyce. W S. Wrycza & J. Maślankowski (red.), Informatyka ekonomiczna: teoria i zastosowania (s. 701736). Wydawnictwo Naukowe PWN.
	Supplementary literature	Ditkaew, K., Pitchayatheeranart, L., & Jermsittiparsert, K. (2020). Success of Enterprise Resource Planning Implementation on Sustainable Performance of Logistics Business in Thailand. International Journal of Supply Chain Management, 9(4), 340347. https://ojs.excelingtech.co.uk/index.php/IJSCM/article/view/5261 Li, Q., & Wu, G. (2021). ERP System in the Logistics Information Management System of Supply Chain Enterprises. Mobile Information Systems, 2021, 111. https://doi.org/10.1155/2021/7423717 Lin, P.-C., Shu, M.-H., Hsu, B.-M., Hu, C.-M., & Huang, J.-C. (2022). Supply Chain Management System for Automobile Manufacturing Enterprises Based on SAP. Wireless Communications and Mobile Computing, 2022, 110. https://doi.org/10.1155/2022/5901633
	eResources addresses	
Example issues/ example questions/ tasks being completed		
Work placement	Not applicable	

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