

Subject card

Subject name and code	ERP Systems, PG_00177469						
Field of study	Informatics and Econometrics						
Date of commencement of studies	October 2025		Academic year of realisation of subject		2026/2027		
Education level	Master'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	2		Language of instruction		English teaching materials in english		
Semester of study	4		ECTS credits		5.0		
Learning profile	academic		Assessment form		credit		
Conducting unit	Department of Business Informatics -> Faculty of Management -> Rector						
Name and surname of lecturer (lecturers)	Subject supervisor		dr Anna Lenart				
	Teachers						
Lesson types	Lesson type	Lecture	Tutorial	Laboratory	Project	Seminar	SUM
	Number of study hours	15.0	0.0	45.0	0.0	0.0	60
	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	60		4.0		61.0	125
Subject objectives	1. Transfer of knowledge on the functioning and implementation of ERP systems. 2. Preparing students to use SAP S/4HANA system on the example of Global Bike Inc. model company (GBI) created for teaching purposes by SAP University Alliances. 3. Teaching students to use ERP systems in the field of logistics, financial and HR processes						
Learning outcomes	Course outcome		Subject outcome		Method of verification		
	[liEMU2_U03] The student is able to obtain and verify data from properly selected sources and to collect, process, and visualize it using modern econometrics, informatics or statistics tools.		The student can use the SAP S/4 HANA system to perform logistic, financial and personnel processes as well as to select information and prepare reports.		[SU2] presentation/project/paper/report [SU5] implementation of a problem task		
	[liEMU2_U12] The student can adapt, design, create, and operate IT systems that support business entities.		The student can use of the SAP S/ 4 HANA system, which supports various areas of management as well as analyzes and presents the implementation case of a selected ERP system.		[SU2] presentation/project/paper/report [SU3] text preparation/written work [SU5] implementation of a problem task		
	[liEMU2_W05] The student possesses advanced knowledge and understanding of informatics, statistics, and econometrics techniques and tools used to acquire, process, or visualise data to aid in decision-making and verify research hypotheses.		The student knows and understands IT methods, techniques and tools enabling the functioning and implementation of ERP systems in organizations.		[SW4] test/exam - oral or written [SW2] presentation/project/paper/report [SW3] text preparation/written work		

Subject contents	Lecture topics 1. Business processes in the company. 2. Information needs of a company. 3. ERP system life cycle. 4. The market of ERP systems in the world and in Poland. 5. Trends in ERP systems development. Laboratory topics 1. SAP S/4 HANA as enterprise software (presentation). 2. Principles of using ERP system on the example of SAP S/4 HANA system (navigation in SAP S/4 HANA system) and case study analysis GBI model enterprise. 3. Application of Material Management (MM) module presentation, exercises and case study. 4. Application of Sales and Distribution (SD) module presentation, exercises and case study. 5. Partial pass of logistics modules MM and SD reporting. 6. Application of Financial Accounting (FI) module presentation, exercises and case studies. 7. Application of Controlling (CO) presentation, exercises and case studies. 8. Partial pass of financial modules FI and CO reporting. 9. Application of Human Capital Management (HCM) subsystem presentation, exercises and case studies. 10. Partial pass of HCM subsystem reporting. 11. Analysis and presentation of the implementation case of the selected ERP system.		
Prerequisites and co-requisites			
Assessment methods and criteria	Subject passing criteria	Passing threshold	Percentage of the final grade
	written final paper (lecture)	51.0%	20.0%
	reports of problem tasks (laboratory)	51.0%	60.0%
	analysis and presentation of implementation case of ERP system (laboratory)	51.0%	20.0%
Recommended reading	Basic literature	1. Lenart A., Systemy ERP, [w:] Wrycza S., Maślankowski J. (red.), Informatyka ekonomiczna. Teoria i zastosowania, Wydanie II, PWN, Warszawa 2019 (rozdział 17). 2. Intro to SAP S4HANA Using Global Bike 4.3, SAP University Alliances, grudzień 2025. 3. Course for the subject "ERP Systems" on the UG Educational Portal.	
	Supplementary literature	1. Akhtar J., Murray M., Materials Management with SAP S/4HANA: Business Processes and Configuration, SAP Press 2020. Bardhan D., el al., SAP S/4HANA: An Introduction, SAP Press 2021. 2. Olcott J., Simmonds J., Sales and Distribution with SAP S/4HANA: Business User Guide, SAP Press 2021. 3. Salmon J., Walz S., Controlling with SAP S/4HANA: Business User Guide, SAP Press 2021. 4. Tritschler J., Walz S., Rupp R., Mucka N., Financial Accounting with SAP S/4HANA: Business User Guide, SAP Press 2019.	
	eResources addresses		
Example issues/ example questions/ tasks being completed			
Work placement	Not applicable		

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