

Subject card

Subject name and code	ERP Systems, PG_00156478						
Field of study	Informatics and Econometrics						
Date of commencement of studies	October 2024		Academic year of realisation of subject			2025/2026	
Education level	Master's studies		Subject group			Obligatory subject group in the field of study 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	
Semester of study	4		ECTS credits			6.0	
Learning profile	academic		Assessment form				
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		20.0		70.0	150
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_U04] The student is able to plan, design, and program information systems at an advanced level, supporting the operation of business entities.	The student is able to plan the use of ERP system in various areas of organizational environment.	[SU2] presentation/project/paper/report [SU5] implementation of a problem task [SU6] demonstration of practical skills
	[liEMU2_K03] The student is able to communicate freely with the public inside and outside the workplace, transfer his knowledge and share his skills through various media.	The student is able to transfer knowledge in the field of ERP systems.	[SK2] presentation/project/paper/report [SK8] observation of student's independent or team work
	[liEMU2_W05] The student has an in-depth knowledge of socio-economic data sources, their databases and how to create them.	The student has an in-depth knowledge in the field of economic data sources and document registration methods in SAP S/4 HANA system.	[SW2] presentation/project/paper/report [SW5] implementation of a problem task
	[liEMU2_K02] The student can communicate freely with the public on specialised topics in the field of computer science and econometrics in and outside the workplace, communicate his knowledge and share his skills through various media. Culturally participates in discussions, is not afraid to ask questions and knows how to give constructive criticism.	The student is able to communicate with environment on topics related to ERP systems and share his skills using various media.	[SK2] presentation/project/paper/report [SK5] implementation of a problem task [SK6] demonstration of practical skills
	[liEMU2_W04] The student has an in-depth knowledge of advanced mathematical, statistical, econometric and IT methods that enable the acquisition, processing and analysis of data reflecting the functioning and growth of the national economy and its components, as well as the phenomena and processes occurring in their environment.	The student has an in-depth knowledge of advanced IT-methods enabling and acquisition, processing and analysis of data regarding various business processes.	[SW2] presentation/project/paper/report [SW5] implementation of a problem task
	[liEMU2_U02] The student is able to proficiently acquire detailed information about economic processes and phenomena through direct observation, planned experimentation or database queries, as well as collect and process it using modern information technology tools.	The student is able to obtain detailed information about various business processes from SAP S/4 HANA system.	[SU2] presentation/project/paper/report [SU5] implementation of a problem task [SU6] demonstration of practical skills
	[liEMU2_K01] The student understands the need for continuous completion and deepening of acquired knowledge. The student inspires and organizes others' learning processes.	The student understands the need to continuous completion and deepening of acquired knowledge in the field of ERP systems.	[SK2] presentation/project/paper/report [SK8] observation of student's independent or team 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
	analysis of implementation case of ERP system (laboratory)	51.0%	20.0%
	reports of problem tasks (laboratory)	51.0%	60.0%
	written final paper (lecture)	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 (chapter 17). 2. Intro to SAP S4HANA Using Global Bike 4.2, learning materials, SAP University Alliances, July 2023. 3. A 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. 2. Bardhan D., et al., SAP S/4HANA: An Introduction, SAP Press 2021. 3. Olcott J., Simmonds J., Sales and Distribution with SAP S/4HANA: Business User Guide, SAP Press 2021. 4. Salmon J., Walz S., Controlling with SAP S/4HANA: Business User Guide, SAP Press 2021. 5. 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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