University of Gdańsk

Subject card

Subject name and code	ERP Systems, PG_00177526		
Field of study	Informatics and Econometrics		
Date of commencement of studies	October 2026	Academic year of realisation of subject	2027/2028
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	Polish
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
[IiEMU2_U03] 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
[IiEMU2_U12] 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 selected ERP system.	[SU2] presentation/project/paper/ report [SU3] text preparation/written work [SU5] implementation of a problem task
[IiEMU2_W05] 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

<table>
<tr><td>Subject contents</td><td>

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.

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<tr><td>Prerequisites and co-requisites</td><td></td></tr>
<tr><td>Assessment methods and criteria</td><td>
<table>
<tr><th>Subject passing criteria</th><th>Passing threshold</th><th>Percentage of the final grade</th></tr>
<tr><td>analysis and presentation of implementation case of ERP system (laboratory)</td><td>51.0%</td><td>20.0%</td></tr>
<tr><td>reports of problem tasks (laboratory)</td><td>51.0%</td><td>60.0%</td></tr>
<tr><td>written final paper (lecture)</td><td>51.0%</td><td>20.0%</td></tr>
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</td></tr>
<tr><td>Recommended reading</td><td>
<table>
<tr><td>Basic literature</td><td>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. Kurs do przedmiotu "Systemy klasy ERP" na Portalu Edukacyjnym UG.</td></tr>
<tr><td>Supplementary literature</td><td>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.</td></tr>
<tr><td>eResources addresses</td><td></td></tr>
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<tr><td>Example issues/ example questions/ tasks being completed</td><td></td></tr>
<tr><td>Work placement</td><td>Not applicable</td></tr>
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