GDAŃSK UNIVERSITY OF TECHNOLOGY

Subject card

Subject name and code	ENTERPRISE INFORMATION SYSTEMS, PG_00066561		
Field of study	Economic Analytics		
Date of commencement of studies	October 2024	Academic year of realisation of subject	2025/2026
Education level	first-cycle 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	Part-time studies	Mode of delivery	at the university
Year of study	2	Language of instruction	English
Semester of study	4	ECTS credits	5.0
Learning profile	general academic profile	Assessment form	exam
Conducting unit	Department of Informatics In Management -> Faculty of Management and Economics -> Faculties of Gdańsk University of Technology		
Name and surname of lecturer (lecturers)	Subject supervisor	dr inż. Bartosz Woliński	
	Teachers	dr inż. Bartosz Woliński	

Lesson types

Lesson type	Lecture	Tutorial	Laboratory	Project	Seminar	SUM
Number of study hours	16.0	0.0	16.0	0.0	0.0	32

E-learning hours included: 0.0

eNauczanie source addresses:

Moodle ID: 47623 Systemy informatyczne przedsiębiorstw_w/lab (NSTACJ. AG I - on-site i on-line)_lato 2025/26
https://enauczanie.pg.edu.pl/moodle/course/view.php?id=47623

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	32	6.0	87.0	125

Subject objectives

The aim of the course is to introduce the theory and practice of using information technologies and systems by organizations to achieve strategic goals and implement digital transformation.

Learning outcomes

Course outcome	Subject outcome	Method of verification
[K6_W02] Demonstrates advanced knowledge of methods and techniques related to the field of study in economic analytics to explain complex problems.	Selects information technology methods and techniques for identifying, diagnosing, and solving problems occurring within an enterprise and its socio-economic environment.	[SW2] Assessment of knowledge contained in presentation [SW1] Assessment of factual knowledge
[K6_U07] Applies advanced information technologies to enhance data analysis and decision-making processes.	Applies information technology and systems to ensure the availability of high-quality data and algorithms that can support the enterprise in making informed decisions, achieving strategic goals, and delivering value to customers and stakeholders.	[SU1] Assessment of task fulfilment [SU3] Assessment of ability to use knowledge gained from the subject [SU4] Assessment of ability to use methods and tools [SU5] Assessment of ability to present the results of task

<table>
<tr><td>Subject contents</td><td>Course content – lecture

LECTURES

• Introduction - digital enterprise
• Typology - types of enterprise information systems
• Organization - mutual impact of organization and information systems

LABORATORY

• Sales and distribution
• Materials management
• Production planning and execution
• Financial accounting accounts receivable</td></tr>
<tr><td>Prerequisites and co-requisites</td><td>Fundamentals of computer science, management, marketing, production management and microeconomics</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>Exam</td><td>60.0%</td><td>45.0%</td></tr>
<tr><td>Activity during labs</td><td>60.0%</td><td>25.0%</td></tr>
<tr><td>Project</td><td>60.0%</td><td>20.0%</td></tr>
<tr><td>Activity during lectures</td><td>0.0%</td><td>10.0%</td></tr>
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<tr><td>Recommended reading</td><td>
<table>
<tr><td>Basic literature</td><td>• Kenneth C. Laudon and Jane P. Laudon. (2022). Management information systems:Managing the digital firm. 17th edition. Pearson Education.
• Introduction to SAP S/4HANA. Next Generation Business Suite, Last Update: July2023, ©2023 SAP SE / SAP UCC Magdeburg</td></tr>
<tr><td>Supplementary literature</td><td>Erik Brynjolfsson, Andrew McAfee. (2016). The Second Machine Age - Work, Progress,and Prosperity in a Time of BrilliantTechnologies. Norton.</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>1. What are the strategic goals of enterprise information systems?
2. How does an information system create value for an enterprise?
3. Which disciplines study information systems, and what does each contribute?
4. How are business processes connected to information systems?
5. How do information systems integrate and enhance enterprise efficiency?
6. What is the role of information system functions in an enterprise?
7. How does an organization influence the development and use of information systems?
8. How do information systems impact the functioning of an organization?</td></tr>
<tr><td>Practical activites within the subject</td><td>Not applicable</td></tr>
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