



Subject card

Subject name and code	Enterprise Information Systems, PG_00068467						
Field of study	Engineering Management						
Date of commencement of studies	October 2025		Academic year of realisation of subject		2026/2027		
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		Polish		
Semester of study	3		ECTS credits		5.0		
Learning profile	general academic profile		Assessment form		assessment		
Conducting unit	Department Of Informatics In Management -> Faculty Of Management And Economics -> Wydział Politechniki Gdańskiej						
Name and surname of lecturer (lecturers)	Subject supervisor						
	Teachers						
Lesson types and methods of instruction	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						
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		5.0		88.0	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_K03] is prepared to critically assess the knowledge they possess, which is necessary for solving cognitive and practical problems, and to supplement any gaps with opinions from external experts.		is able to recognize the limits of their knowledge when analyzing the use of information systems in an organization and, if needed, draws on practitioner experience or specialized sources to effectively address complex problems		[SK5] Assessment of ability to solve problems that arise in practice		
	[K6_U07] uses advanced information technologies to enhance data analysis and management processes.		applies information technologies 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		[SU5] Assessment of ability to present the results of task [SU4] Assessment of ability to use methods and tools [SU3] Assessment of ability to use knowledge gained from the subject [SU1] Assessment of task fulfilment		
	[K6_W02] possesses advanced knowledge of methods and techniques that enable precise formulation and effective problem solving.		selects IT methods and techniques to identify, diagnose, and solve problems occurring within the enterprise and its socio-economic environment		[SW2] Assessment of knowledge contained in presentation [SW1] Assessment of factual knowledge		

Subject contents	<p>LECTURES</p> <ul style="list-style-type: none">• Introduction - digital enterprise• Typology - types of enterprise information systems• Organization - mutual impact of organization and information systems <p>LABORATORY</p> <ul style="list-style-type: none">• Sales and distribution• Materials management• Production planning and execution• Financial accounting accounts receivable		
Prerequisites and co-requisites	Fundamentals of computer science, management, marketing, production management and microeconomics		
Assessment methods and criteria	Subject passing criteria	Passing threshold	Percentage of the final grade
	Activity during lectures	0.0%	10.0%
	Project	60.0%	20.0%
	Activity during labs	60.0%	25.0%
	Exam	60.0%	45.0%
Recommended reading	Basic literature	<ul style="list-style-type: none">• 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	
	Supplementary literature	Erik Brynjolfsson, Andrew McAfee. (2016). The Second Machine Age - Work, Progress,and Prosperity in a Time of BrilliantTechnologies. Norton.	
	eResources addresses	Adresy na platformie eNauczanie:	
Example issues/ example questions/ tasks being completed	<ol style="list-style-type: none">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?		
Work placement	Not applicable		

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