



Subject card

Subject name and code	ENTERPISE INFORMATION SYSTEMS, PG_00070993						
Field of study	Engineering Management						
Date of commencement of studies	October 2026	Academic year of realisation of subject			2027/2028		
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	Full-time studies	Mode of delivery			at the university		
Year of study	2	Language of instruction			Polish		
Semester of study	3	ECTS credits			4.0		
Learning profile	general academic profile	Assessment form			assessment		
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. Radosław Drozd					
	Teachers						
Lesson types	Lesson type	Lecture	Tutorial	Laboratory	Project	Seminar	SUM
	Number of study hours	30.0	0.0	30.0	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	3.0	37.0	100		
Subject objectives	preparation of students to independently plan, implement, and monitor the use of enterprise information systems in achieving strategic goals and supporting the digital transformation of the organization, based on knowledge of the typology and functioning of information systems and business processes, with consideration of the ethical and responsible use of digital technologies.						
Learning outcomes	Course outcome	Subject outcome			Method of verification		
	[K6_U07] uses advanced information technologies to enhance data analysis and management processes.	can select, apply and monitor the use of information systems to analyse, support, and automate business processes and decisions in an organization, taking into account how such system can generate impact - positive or negative - on the organization and its environment			[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		
	[K6_W02] possesses advanced knowledge of methods and techniques that enable precise formulation and effective problem solving.	knows and understands methods and techniques for planning, deploying and evaluating the use of information systems to help achieve an organization's strategic goals, solve its problems, and avoid creating negative socio-economic and ethical outcomes			[SW1] Assessment of factual knowledge [SW2] Assessment of knowledge contained in presentation		
	[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 ready to critically evaluate their own knowledge in the field of planning, implementing, and monitoring enterprise information systems and to supplement it through consultation with experts and analysis of best practices.			[SK5] Assessment of ability to solve problems that arise in practice		

Subject contents	Course content – lecture 1. The digital enterprise the role of information technologies in the functioning of modern organizations 2. Enterprise information systems concept, functions, and importance in management 3. Typology of enterprise information systems 4. Enterprise organization and information systems mutual influence and alignment of systems with business processes 5. Integrated enterprise information systems and the integration of business processes 6. Information systems supporting sales and distribution 7. Information systems in materials management 8. Information systems in production planning and execution 9. Information systems in financial accounting 10. Information systems in receivables management		
	Course content – laboratory 1. The digital enterprise the role of information technologies in the functioning of modern organizations 2. Enterprise information systems concept, functions, and importance in management 3. Typology of enterprise information systems 4. Enterprise organization and information systems mutual influence and alignment of systems with business processes 5. Integrated enterprise information systems and the integration of business processes 6. Information systems supporting sales and distribution 7. Information systems in materials management 8. Information systems in production planning and execution 9. Information systems in financial accounting 10. Information systems in receivables management		
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%
	Activity during labs	60.0%	25.0%
	Project	60.0%	20.0%
	Exam	60.0%	45.0%
Recommended reading	Basic literature	1. Kenneth C. Laudon and Jane P. Laudon. (2022). Management information systems:Managing the digital firm. 17th edition. Pearson Education. 2. Introduction to SAP S/4HANA. Next Generation Business Suite, Last Update: July2023, ©2023 SAP SE / SAP UCC Magdeburg	
	Supplementary literature	1. Erik Brynjolfsson, Andrew McAfee. (2016). The Second Machine Age - Work, Progress, and Prosperity in a Time of Brilliant Technologies. Norton.	
	eResources addresses		
Example issues/ example questions/ tasks being completed	<ul style="list-style-type: none"> • What are the strategic goals of enterprise information systems? • How does an information system create value for an enterprise? • Which disciplines study information systems, and what does each contribute? • How are business processes connected to information systems? • How do information systems integrate and enhance enterprise efficiency? • What is the role of information system functions in an enterprise? • How does an organization influence the development and use of information systems? • How do information systems impact the functioning of an organization? 		
Practical activities within the subject	Not applicable		

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