



Subject card

Subject name and code	ENTERPRISE INFORMATION SYSTEMS, PG_00061451						
Field of study	Engineering Management						
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 (on-line)		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		exam		
Conducting unit	Department of Informatics in Management -> Faculty of Management and Economics						
Name and surname of lecturer (lecturers)	Subject supervisor		dr Tomasz Janowski				
	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		7.0		86.0	125
Subject objectives	Uses IT systems to achieve strategic goals in terms of improving decision-making processes and gaining a competitive advantage, transforming a traditional enterprise into a digital enterprise						
Learning outcomes	Course outcome		Subject outcome		Method of verification		
	[K6_W02] demonstrates advanced preparation in the methods and techniques of formulating and solving problems		solves complex problems of organization functioning using advanced methods and techniques		[SW1] Assessment of factual knowledge		
	[K6_U07] applies information technology to improve critical analysis and evaluation of data and management processes		analyzes and critically evaluates management processes using advanced information technologies		[SU4] Assessment of ability to use methods and tools		

Subject contents	LECTURE Introduction Transforming the modern enterprise through digitization Strategic objectives of enterprise information systems Functions and elements of the information system Implementation of value for the company by the IT system Areas where IT systems are used Typology Linking business processes with IT systems Supporting management groups in the enterprise by IT systems The impact of information systems on increasing the efficiency of the enterprise Supporting cooperation and social business through IT systems The role of information systems functions in the enterprise Organization The influence of the organization affects the creation and use of information systems The impact of information systems on the functioning of the organization Strategies helping to compete based on IT systems Challenges faced by IT systems and how to solve them Society Ethical, social and political problems related to information systems Challenges posed by modern technology to individual privacy Challenges posed by modern technology for intellectual property The impact of information systems on the rights and obligations of people Economy Main features of e-commerce Business and profitable models of e-commerce Marketing and transactions in digital commerce Problems in building digital commerce LABORATORY Basics of the SAP system, Global Bike company in SAP Sales and distribution process in SAP Materials management process in SAP The process of planning and implementing production in SAP Accounting and financial process in SAP Control process in SAP Human resource management process in SAP		
Prerequisites and co-requisites			
Assessment methods and criteria	Subject passing criteria	Passing threshold	Percentage of the final grade
	Project	60.0%	40.0%
	Axam	60.0%	50.0%
	Activity	60.0%	10.0%
Recommended reading	Basic literature	Rymarczyk T. Współczesne trendy technologiczne w informatycznych systemach złożonych. Monografie WSEI, Lublin 2019 Kisielnicki J. Systemy informatyczne zarządzania. Wydawnictwo Placet, Warszawa 2013 Gawin B. Systemy informatyczne w zarządzaniu procesami Workflow. Wydawnictwo Naukowe PWN , Warszawa 2015 Szyjewski Z. Metodyki zarządzania projektami informatycznymi Wydawnictwo Placet, Warszawa 2013	
	Supplementary literature	Kenneth C. Laudon and Jane P. Laudon. Management information systems: Managing the digital firm. 17th edition. Pearson Education. 2022 Erik Brynjolfsson, Andrew McAfee. The Second Machine Age - Work, Progress, and Prosperity in a Time of Brilliant Technologies. Norton. 2016	
	eResources addresses	Adresy na platformie eNauczanie:	
Example issues/ example questions/ tasks being completed	Description of the enterprise and products in terms of the ERP system Implementation of purchases and sales in the ERP system MRP planning Simulation of manufacturing processes A project for the implementation of an integrated customer order fulfillment process in a selected production company		
Work placement	Not applicable		

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