

Subject card

Subject name and code	ENTERPRISE INFORMATION SYSTEMS, PG_00050167								
Field of study	Economic Analytics								
Date of commencement of studies	October 2021		Academic year of realisation of subject			2022/2023			
Education level	tion 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			English Lectures are conducted in English, materials are available in English and Polish, activities and exams are in both languages (student's choice), and laboratory is conducted in Polish.			
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								
Name and surname	Subject supervisor		dr Tomasz Janowski						
of lecturer (lecturers)	Teachers		dr Tomasz Janowski						
			dr inż. Radosław Drozd						
Lesson types and methods	Lesson type	Lecture	Tutorial	Laboratory	Projec	et	Seminar	SUM	
of instruction	Number of study hours	30.0	0.0	30.0	0.0	0.0 60		60	
	E-learning hours included: 0.0								
	Additional information: https://enauczanie.pg.edu.pl/moodle/course/view.php?id=22625								
Learning activity and number of study hours	Learning activity	Participation in didactic classes included in stuc plan		Participation in consultation hours		Self-st	udy	SUM	
	Number of study hours	60		10.0		55.0		125	
Subject objectives	The aim of the course is introduction to the modern practice of the use of information systems by enterprisesfor achieving operational excellence, developing new products and services, improving decision-making, andgaining competitive advantage. Another goal is to answer the question how the use of information systemsand technologies transforms a traditional enterprise into a modern digital enterprise, and what is the impactof such transformation on the socioeconomic environment.								
Learning outcomes	Course outcome		Subject outcome		Method of verification				
	[K6_K01] Understands the need for continuous learning, improving professional, personal and social competences.		Students understand the evolving nature of technology-enabled organizations and the importance of continued learning to keep abreast with the changes.		[SK2] Assessment of progress of work [SK5] Assessment of ability to solve problems that arise in practice				
	[K6_W09] Knows the ways and tools of acquiring and collecting data, including IT data, used in the analysis and explanation of socioeconomic phenomena and processes.		Students are able to classify and describe information technology environments used to build information systems and know the concepts and practice of IT project management.			[SW2] Assessment of knowledge contained in presentation [SW1] Assessment of factual knowledge			
	[K6_U12] Can work in a team, including project, managerial and executive roles.		Team execution of the lab tasks.			[SU1] Assessment of task fulfilment			

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Subject contents	LECTURES
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	LECTURE 1 - INTRODUCTION
	 Introductory case How does digitalization transform modern enterprises?
	What are the strategic goals of enterprise information systems?
	 What is an information system, what are its functions and components? How does the information system realize value for the enterprise?
	 What disciplines study information systems and what do each of them bring? What are the main messages of this lecture?
	LECTURE 2 - TYPOLOGY
	LECTURE 2 - ITPOLOGI
	late destance
	 Introductory case How are business processes related to information systems?
	 How are information systems serving management groups in an enterprise? How do information systems join and improve the effectiveness of an enterprise?
	 How do information systems support cooperation and social business? What is the role of information systems function in an enterprise?
	What are the main messages of this lecture?
	LECTURE 3 - ORGANIZATION
	Introductory case
	 How does organization influence the creation and use of information systems? How do information systems affect the operation of the organization?
	 What strategies help to compete relying on information systems? How do information systems help produce value for an organization?
	What are the challenges facing information systems and how to solve them?
	What are the main messages of this lecture?
	LECTURE 4 - SOCIETY
	 Introductory case What are the ethical, social and political problems related to information systems?
	 What rules of conduct can be used to guide ethical decisions? What challenges does contemporary technology create for individual privacy?
	What challenges does contemporary technology create for intellectual property?
	 How do information systems affect individual rights and obligations? What are the main messages of this lecture?
	LECTURE 5 - ECONOMY
	Introductory case
	 What are the main characteristics of digital commerce? What are the digital commerce business and revenue models?
	How does digital commerce transform marketing and transactions?
	 What is the role and applications of mobile commerce in business? What problems should be solved when building digital commerce?
	What are the main messages of this lecture?
	LABORATORY

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	 Laboratory 1 Fundamentals of the SAP system, Global Bike company in SAP Laboratory 2 Sales and distribution process in SAP Laboratory 3 Materials management process in SAP Laboratory 4 Production planning and implementation process in SAP Laboratory 5 Accounting and financial process in SAP Laboratory 6 Control process in SAP Laboratory 7 Human resources management process in SAP Laboratory 8 Colloquium 						
Prerequisites and co-requisites	Fundamentals of computer science, management, marketing, production management and microeconomics						
Assessment methods and criteria	Subject passing criteria Project Exam Activity Colloquium	Passing threshold 0.0% 60.0% 0.0% 60.0%	Percentage of the final grade 20.0% 45.0% 10.0% 25.0%				
Recommended reading	Supplementary literature	 Kenneth C. Laudon and Jane P. Laudon. Management information systems: Managing the digital firm. 17th edition. Pearson Education. 2022 HBR, Michael E. Porter, Rita Gunther McGrath, Thomas H. Davenport, Marco lansiti, On Leading Digital Transformation, Harvard Business Review, 2021 Andrew Chen. The Cold Start Problem: How to Start and Scale Network Effects. HarperAudio. 2021 Shoshana Zuboff. The Age of Surveillance Capitalism: The Fight for a Human Future at the New Frontier of Power. Public Affairs. 2020. Thomas M. Siebel, Digital Transformation: Survive and Thrive in an Era of Mass Extinction, Rodin Books. 2019. HBR, Michael E. Porter, Thomas H. Davenport, Paul Daugherty, H. James Wilson. On Al, Analytics, and the New Machine Age. Harvard Business Review, 2019 David L. Rogers. The Digital Transformation Playbook: Rethink Your Business for the Digital Age. Columbia Business School Publishing. 2016 Erik Brynjolfsson, Andrew McAfee. The Second Machine Age - Work, Progress, and Prosperity in a Time of Brilliant Technologies. 					
	eResources addresses	Adresy na platformie eNauczanie: 2022/2023 Enterprise Information Systems - Moodle ID: 22625 https://enauczanie.pg.edu.pl/moodle/course/view.php?id=22625					
Example issues/ example questions/ tasks being completed Work placement	 What are the management, organizational and technological components of information systems? How do information systems serve different management groups in an enterprise? What is the impact of information systems on organizations? What ethical, social and political issues are addressed by information systems? What are the current trends in computer software platforms? What are the problems with managing data resources in a traditional file environment? How does the Internet and Internet technology work and how do they support communication and ebusiness? What are the most important tools and technologies for protecting IT resources? How do supply chain management systems coordinate planning, production and logistics with suppliers? What is the role of m-commerce in business and what are the most important m-commerce applications? What are the main types of knowledge-based work processes and how do they serve a company? How do information systems support managers' decision-making? What are the new approaches to building systems in the digital age? What are the main risk factors in IT system projects and how can they be managed? What are the challenges facing global IT systems and management solutions to these challenges? Not applicable 						

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