



Subject card

Subject name and code	ENTERPRISE INFORMATION SYSTEMS, PG_00044515						
Field of study	Economic Analytics						
Date of commencement of studies	October 2021	Academic year of realisation of subject			2022/2023		
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 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 of lecturer (lecturers)	Subject supervisor		dr Tomasz Janowski				
	Teachers		dr Tomasz Janowski dr inż. Radosław Drozd				
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 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 study plan	Participation in consultation hours		Self-study		SUM
	Number of study hours	32	10.0		83.0		125
Subject objectives	The aim of the course is introduction to the modern practice of the use of information systems by enterprises for achieving operational excellence, developing new products and services, improving decision-making, and gaining competitive advantage. Another goal is to answer the question how the use of information systems and technologies transforms a traditional enterprise into a modern digital enterprise, and what is the impact of 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_U12] Can work in a team, including project, managerial and executive roles.		Team execution of the lab tasks.		[SU1] Assessment of task fulfilment		
[K6_W09] Knows the ways and tools of acquiring and collecting data, including IT data, used in the analysis and explanation of socio-economic 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			

Subject contents	<p>LECTURES</p> <p>LECTURE 1 - INTRODUCTION</p> <ul style="list-style-type: none"> • 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? <p>LECTURE 2 - TYPOLOGY</p> <ul style="list-style-type: none"> • 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? • How do information systems function in an enterprise? • What are the main messages of this lecture? <p>LECTURE 3 - ORGANIZATION</p> <ul style="list-style-type: none"> • 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? <p>LABORATORY</p> <ul style="list-style-type: none"> • 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	<table border="1" data-bbox="448 1240 1495 1413"> <thead> <tr> <th data-bbox="448 1240 798 1272">Subject passing criteria</th> <th data-bbox="802 1240 1141 1272">Passing threshold</th> <th data-bbox="1145 1240 1495 1272">Percentage of the final grade</th> </tr> </thead> <tbody> <tr> <td data-bbox="448 1279 798 1310">Project</td> <td data-bbox="802 1279 1141 1310">0.0%</td> <td data-bbox="1145 1279 1495 1310">20.0%</td> </tr> <tr> <td data-bbox="448 1317 798 1348">Colloquium</td> <td data-bbox="802 1317 1141 1348">60.0%</td> <td data-bbox="1145 1317 1495 1348">25.0%</td> </tr> <tr> <td data-bbox="448 1355 798 1386">Activity</td> <td data-bbox="802 1355 1141 1386">0.0%</td> <td data-bbox="1145 1355 1495 1386">10.0%</td> </tr> <tr> <td data-bbox="448 1393 798 1424">Exam</td> <td data-bbox="802 1393 1141 1424">60.0%</td> <td data-bbox="1145 1393 1495 1424">45.0%</td> </tr> </tbody> </table>			Subject passing criteria	Passing threshold	Percentage of the final grade	Project	0.0%	20.0%	Colloquium	60.0%	25.0%	Activity	0.0%	10.0%	Exam	60.0%	45.0%
Subject passing criteria	Passing threshold	Percentage of the final grade																
Project	0.0%	20.0%																
Colloquium	60.0%	25.0%																
Activity	0.0%	10.0%																
Exam	60.0%	45.0%																
Recommended reading	Basic literature	Kenneth C. Laudon and Jane P. Laudon. Management information systems: Managing the digital firm. 17th edition. Pearson Education. 2022																

	Supplementary literature	<ul style="list-style-type: none"> • HBR, Michael E. Porter, Rita Gunther McGrath, Thomas H. Davenport, Marco Iansiti, 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 AI, 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. Norton. 2016
	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	<ol style="list-style-type: none"> 1. What are the management, organizational and technological components of information systems? 2. How do information systems serve different management groups in an enterprise? 3. What is the impact of information systems on organizations? 4. What ethical, social and political issues are addressed by information systems? 5. What are the current trends in computer software platforms? 6. What are the problems with managing data resources in a traditional file environment? 7. How does the Internet and Internet technology work and how do they support communication and ebusiness? 8. What are the most important tools and technologies for protecting IT resources? 9. How do supply chain management systems coordinate planning, production and logistics with suppliers? 10. What is the role of m-commerce in business and what are the most important m-commerce applications? 11. What are the main types of knowledge-based work processes and how do they serve a company? 12. How do information systems support managers' decision-making? 13. What are the new approaches to building systems in the digital age? 14. What are the main risk factors in IT system projects and how can they be managed? 15. What are the challenges facing global IT systems and management solutions to these challenges? 	
Work placement	Not applicable	

Document generated electronically. Does not require a seal or signature.