

Subject card

Subject name and code	ENTERPRISE INFORMATION SYSTEMS, PG_00040576							
Field of study	Engineering Management							
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	Full-time studies		Mode of delivery			blended-learning		
Year of study	2		Language of instruction		English Lectures are in English, lecture materials are available in both languages, activity and exam in English or Polish (student's choice), laboratory is conducted in Polish.			
Semester of study	4		ECTS cred	TS 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					
		ltun-	Tutorial Laboraton, Project Consiser CUM			CLIM		
Lesson types and methods of instruction	Lesson type Number of study hours	30.0	Tutorial 0.0	Laboratory 30.0	Projec 0.0	L	Seminar 0.0	60
	E-learning hours included: 8.0							
	Additional information: https://enauczanie.pg.edu.pl/moodle/course/view.php?id=22625							
Learning activity and number of study hours	Learning activity	Participation i classes including plan				Self-study		SUM
	Number of study hours	60		8.0		57.0		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.							

Data wydruku: 26.04.2024 21:45 Strona 1 z 4

Learning outcomes	Course outcome	Subject outcome	Method of verification	
	[K6_U09] obtains data for analysis and interpretation of results using information technology	The student is able to classify and describe information technology environments used to build information systems, and knows the concepts and practice of IT project management.	[SU2] Assessment of ability to analyse information	
	[K6_W12] has a basic knowledge of production management and occupational safety and ergonomics management, as well as information technologies necessary for engineering management	A student is able to recognize the management, organizational and technical aspects of the adoption of information systems in an enterprise. The student is able to plan the activities needed to build and manage IT systems in the company.	[SW1] Assessment of factual knowledge	
	[K6_U12] can design the process of exploitation of production and IT infrastructure with the use of appropriate methods, techniques and tools	A student is able to determine what technologies and information systems are needed in an enterprise to achieve its goals including increasing productivity. Student is able to point to innovative applications of information systems for the realization of the company objectives.	[SU4] Assessment of ability to use methods and tools [SU1] Assessment of task fulfilment	

Data wydruku: 26.04.2024 21:45 Strona 2 z 4

Subject contents	LECTURES
Subject contents	LEGISTIC
	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 3. TYPOLOGY
	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
	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
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Prerequisites and co-requisites	
1 1 1 1	Foundations of information technology
	Information technology in management

Data wydruku: 26.04.2024 21:45 Strona 3 z 4

Assessment methods	Subject passing criteria	Passing threshold	Percentage of the final grade		
and criteria	Project	0.0%	20.0%		
	Exam	60.0%	45.0%		
	Activity	0.0%	10.0%		
	Colloquium	60.0%	25.0%		
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	 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. Norton. 2016 Adresy na platformie eNauczanie: 2022/2023 Enterprise Information Systems - Moodle ID: 22625 			
	eResources addresses				
Example issues/ example questions/ tasks being completed	https://enauczanie.pg.edu.pl/moodle/course/view.php?id=22625 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 e-business? 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 callenges facing global IT systems and management solutions to these challenges?				
Work placement	Not applicable				
Tront placement	P.P. Tarana				

Data wydruku: 26.04.2024 21:45 Strona 4 z 4