



Subject card

Subject name and code	ENTERPRISE INFORMATION SYSTEMS, PG_00040576						
Field of study	Engineering Management						
Date of commencement of studies	October 2022	Academic year of realisation of subject			2023/2024		
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			English The course is taught in two languages, English and 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	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	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.						
Learning outcomes	Course outcome	Subject outcome			Method of verification		
	[K6_U12] can design the process of exploitation of production and IT infrastructure with the use of appropriate methods, techniques and tools	can determine what technologies and information systems are needed and point at innovative applications of information systems in an enterprise to achieve its goals including increasing productivity			[SU4] Assessment of ability to use methods and tools [SU1] Assessment of task fulfilment [SU3] Assessment of ability to use knowledge gained from the subject		
	[K6_W12] has a basic knowledge of production management and occupational safety and ergonomics management, as well as information technologies necessary for engineering management	can recognize the management, organizational, and technical aspects of the adoption of information systems and plan the activities needed to build and manage information systems in the enterprise			[SW1] Assessment of factual knowledge		
	[K6_U09] obtains data for analysis and interpretation of results using information technology	can classify and describe information technology environments used to build information systems, and knows the concepts and practices of IT project management			[SU2] Assessment of ability to analyse information [SU3] Assessment of ability to use knowledge gained from the subject		

Subject contents	<p>LECTURES</p> <ul style="list-style-type: none"> • Introduction - digital enterprise • Typology - types of enterprise information systems • Organization - impact of organization on information systems • Society - digital enterprise in the society • Economy - digital enterprise in the economy <p>LABORATORY</p> <ul style="list-style-type: none"> • Fundamentals of the SAP system, • Global Bike company in SAP • Sales and distribution process in SAP • Materials management process in SAP • Production planning and implementation process in SAP • Accounting and financial process in SAP • Control process in SAP • Human resources management process in SAP • Colloquium 																	
Prerequisites and co-requisites	<ul style="list-style-type: none"> • Foundations of information technology • Information technology in management 																	
Assessment methods and criteria	<table border="1"> <thead> <tr> <th data-bbox="453 777 794 808">Subject passing criteria</th> <th data-bbox="794 777 1142 808">Passing threshold</th> <th data-bbox="1142 777 1482 808">Percentage of the final grade</th> </tr> </thead> <tbody> <tr> <td data-bbox="453 808 794 840">Exam</td> <td data-bbox="794 808 1142 840">60.0%</td> <td data-bbox="1142 808 1482 840">45.0%</td> </tr> <tr> <td data-bbox="453 840 794 871">Colloquium</td> <td data-bbox="794 840 1142 871">60.0%</td> <td data-bbox="1142 840 1482 871">25.0%</td> </tr> <tr> <td data-bbox="453 871 794 902">Activity</td> <td data-bbox="794 871 1142 902">0.0%</td> <td data-bbox="1142 871 1482 902">10.0%</td> </tr> <tr> <td data-bbox="453 902 794 934">Project</td> <td data-bbox="794 902 1142 934">0.0%</td> <td data-bbox="1142 902 1482 934">20.0%</td> </tr> </tbody> </table>			Subject passing criteria	Passing threshold	Percentage of the final grade	Exam	60.0%	45.0%	Colloquium	60.0%	25.0%	Activity	0.0%	10.0%	Project	0.0%	20.0%
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Project	0.0%	20.0%																
Recommended reading	Basic literature	<ul style="list-style-type: none"> • Kenneth C. Laudon and Jane P. Laudon. (2022). Management information systems: Managing the digital firm. 17th edition. Pearson Education. • Rymarczyk T. (2019). Współczesne trendy technologiczne w informatycznych systemach złożonych. Lublin: Monografie WSEI. • SAP. (2018). Materiały szkoleniowe do wersji edukacyjnej systemu. SAP. • Jerzy Auksztol, Piotr Balwierz, Magdalena Chomuszko. (2012). SAP Zrozumieć system ERP. Wydawnictwo Naukowe PWN. • Szyjewski Z. (2013). Metodyki zarządzania projektami informatycznymi. Warszawa: Wydawnictwo Placet 																
	Supplementary literature	<ul style="list-style-type: none"> • Erik Brynjolfsson, Andrew McAfee. (2016). The Second Machine Age - Work, Progress, and Prosperity in a Time of Brilliant Technologies. Norton. • Gawin B. (2015). Systemy informatyczne w zarządzaniu procesami Workflow. Warszawa: Wydawnictwo Naukowe PWN. • Kisielnicki J. (2013). Systemy informatyczne zarządzania. Warszawa: Wydawnictwo Placet. 																
	eResources addresses	<p>Podstawowe</p> <p>https://enauczanie.pg.edu.pl/moodle/course/view.php?id=35983 - Adresy na platformie eNauczanie: 2023/2024 Enterprise Information Systems - Moodle ID: 35983</p> <p>Adresy na platformie eNauczanie:</p> <p>2023/2024 Enterprise Information Systems - Moodle ID: 35983</p> <p>https://enauczanie.pg.edu.pl/moodle/course/view.php?id=35983</p>																

<p>Example issues/ example questions/ tasks being completed</p>	<ol style="list-style-type: none"> 1. What are the strategic goals of enterprise information systems? 2. How does the information system realize value for the enterprise? 3. What disciplines study information systems and what do each of them bring? 4. How are business processes related to information systems? 5. How do information systems join and improve the effectiveness of an enterprise? 6. What is the role of information systems function in an enterprise? 7. How does organization influence the creation and use of information systems? 8. How do information systems affect the operation of the organization? 9. What are the ethical, social and political problems related to information systems? 10. What challenges does contemporary technology create for individual privacy? 11. What challenges does contemporary technology create for intellectual property? 12. How do information systems affect individual rights and obligations? 13. What are the main characteristics of digital commerce? 14. What are the digital commerce business and revenue models? 15. How does digital commerce transform marketing and transactions?
<p>Work placement</p>	<p>Not applicable</p>