GDAŃSK UNIVERSITY OF TECHNOLOGY

Subject card

Subject name and code	ENTERPRISE INFORMATION SYSTEMS, PG_00040528		
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	Part-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 -> Wydziały Politechniki Gdańskiej		
Name and surname of lecturer (lecturers)	Subject supervisor	dr Tomasz Janowski	
	Teachers	dr Tomasz Janowski	
		dr inż. Bartosz Woliński	

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	8.0	85.0	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	LECTURES
	• Introduction - digital enterprise • Typology - types of enterprise information systems • Organization - impact of organization on information systems LABORATORY • 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 • Colloquium
Prerequisites and co-requisites	• Foundations of information technology • Information technology in management

Assessment methods and criteria	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%

Recommended reading	Basic literature	• 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	• 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	Adresy na platformie eNauczanie: 2023/2024 Enterprise Information Systems - Moodle ID: 35983 https://enauczanie.pg.edu.pl/moodle/course/view.php?id=35983

Example issues/ example questions/ tasks being completed	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?

| Work placement | Not applicable |

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