GDAŃSK UNIVERSITY OF TECHNOLOGY

Subject card

Subject name and code	Enterprise Information Systems, PG_00053097
Field of study	Data Engineering

Date of commencement of studies	October 2025	Academic year of realisation of subject	2027/2028
Education level	first-cycle studies	Subject group	Optional subject group 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	3	Language of instruction	English
Semester of study	5	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 Grażyna Musiatowicz-Podbiał

Lesson types and methods of instruction	Lesson type	Lecture	Tutorial	Laboratory	Project	Seminar	SUM
	Number of study hours	15.0	0.0	30.0	0.0	0.0	45
	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	45	4.0	76.0	125

Subject objectives	The aim of the course is to introduce the theory and practice of using information technologies and systems by organizations to achieve strategic goals and implement digital transformation.

Learning outcomes	Course outcome	Subject outcome	Method of verification
	[K6_W02] demonstrates advanced preparation in methods and techniques for formulating and solving problems	knows how to apply information systems to solve business problems facing the enterprise	[SW1] Assessment of factual knowledge
	[K6_W07] analyzes business processes in an advanced way in the technical, legal, economic, financial and social context	knows how information flows in the enterprise support its business processes	[SW1] Assessment of factual knowledge
	[K6_U07] uses information technologies to improve the acquisition, analysis and processing of data in business applications	is able to select information systems appropriate for business applications	[SU4] Assessment of ability to use methods and tools [SU3] Assessment of ability to use knowledge gained from the subject

Subject contents	LECTURES Introduction - digital enterprise Typology - types of enterprise information systems Organization - mutual impact of organizations on information systems and systems on organizations LABORATORY Applying the SAP system in organizational activities, modules: Sales and distribution, Materials management, Production planning and execution, and Financial accounting accounts receivable
Prerequisites and co-requisites	

Assessment methods and criteria	Subject passing criteria	Passing threshold	Percentage of the final grade
	Activity during labs	60.0%	25.0%
	Project	60.0%	20.0%
	Quiz	60.0%	45.0%
	Activity during lecture	0.0%	10.0%

Recommended reading	Basic literature	Kenneth C. Laudon and Jane P. Laudon. (2022). Management information systems: Managing the digital firm. 17th edition. Pearson Education. Introduction to SAP S/4HANA. Next Generation Business Suite, Last Update: July 2023, ©2023 SAP SE / SAP UCC Magdeburg
	Supplementary literature	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:

Example issues/ example questions/ tasks being completed	What are the strategic goals of enterprise information systems?How does the information system realize value for the enterprise?What disciplines study information systems and what do each of them bring?How are business processes related to information systems?How do information systems join and improve the effectiveness of an enterprise?What is the role of information systems function in an enterprise?How does organization influence the creation and use of information systems?How do information systems affect the operation of the organization?
Work placement	Not applicable