



Subject card

Subject name and code	BUSINESS INFORMATICS, PG_00058553						
Field of study	Economic Analytics						
Date of commencement of studies	October 2023	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	1	Language of instruction			Polish		
Semester of study	2	ECTS credits			4.0		
Learning profile	general academic profile	Assessment form			assessment		
Conducting unit	Department of Informatics in Management -> Faculty of Management and Economics						
Name and surname of lecturer (lecturers)	Subject supervisor	dr Grażyna Musiatowicz-Podbiał					
	Teachers	dr Grażyna Musiatowicz-Podbiał					
Lesson types and methods of instruction	Lesson type	Lecture	Tutorial	Laboratory	Project	Seminar	SUM
	Number of study hours	8.0	0.0	16.0	0.0	0.0	24
	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	24	10.0		66.0	100	
Subject objectives	Identifies IT systems defining their appropriate functioning and role of the organization						
Learning outcomes	Course outcome	Subject outcome			Method of verification		
	[K6_W03] identifies reliable sources of information relevant to the analyzed issues	uses information technology to solve specific economic problems, selecting appropriate data			[SW1] Assessment of factual knowledge		
	[K6_U07] uses information technologies to improve data analysis and decision-making processes	uses information technologies adequate to the problem to be solved, ensuring effective obtaining of the results needed to make a decision			[SU2] Assessment of ability to analyse information [SU3] Assessment of ability to use knowledge gained from the subject [SU4] Assessment of ability to use methods and tools		
Subject contents	<p>LECTURES</p> <p>Information technology as a tool supporting organizations. Information theory. Data, information, knowledge, information capital, knowledge-based economy. Information attributes and information security. Information system: structure, typology, development trends. Software Development Life Cycle. Integrated systems of the MRP / MRP (II) / ERP. CRM systems. Decision-support systems (incl. AI tools) E-business environment. Digital economy, digital business, digital transformation of organizations. Digital channels, multi-channeling, omnichanneling. Network and virtual organizations. Industry 5.0 and Society 5.0. SDLC.</p> <p>LABORATORIES</p> <p>Using Excel as an analytical tool (sorting, filtering, searching and selecting of data). Data structures: tables, lists and databases. The use of financial formulas (loans, investments, discount and depreciation functions). Data format and presentation (date and time functions, non-standard data formats). Case study assignment based on actual market data. Final assignment.</p>						

Prerequisites and co-requisites	Foundational ability to use office applications for the analysis and presentation of data and phenomena.		
Assessment methods and criteria	Subject passing criteria	Passing threshold	Percentage of the final grade
	Labs and assignments assessment	50.0%	50.0%
	Knowledge tests and assignments for lectures	50.0%	50.0%
Recommended reading	Basic literature	Ciesielska, C., Musiatowicz-Podbiał, G.(2021) Zarys problematyki zarządzania zasobami informatycznymi w przedsiębiorstwie. Gdańsk: Wydawnictwo PG. Kisielnicki, J., Sroka, H. (2005). Systemy informacyjne biznesu; Informatyka dla zarządzania. Warszawa: AW Placet. Laudon, J., Laudon, K. (2007). Management Information Systems Managing the Digital Firm. New Jersey: Prentice Hall. Olszak, C., Ziemia, E. (red.) (2019). Strategie i modele gospodarki elektronicznej. Warszawa: PWN. Wrycza, S., Maślankowski, J. (red.) (2021). Informatyka ekonomiczna; wyd II. Warszawa: PWN.	
	Supplementary literature	Afuah, A., Tucci, C. (2003). Biznes internetowy, strategie i modele; Kraków: Oficyna Ekonomiczna. Cieciura, M. (2006). Podstawy technologii informatycznych z przykładami zastosowań. Warszawa: VIZJA PRESS&IT Sp. z o.o. Grudzewski, W., Hejduk, I. (2002). Przedsiębiorstwo wirtualne. Warszawa: Difin. Januszewski, A. (2008). Funkcjonalność Informatycznych systemów zarządzania - Zintegrowane systemy transakcyjne. Warszawa: PWN.	
	eResources addresses	Adresy na platformie eNauczenie: INFORMATYKA BIZNESOWA NSTAC 23/24 - Moodle ID: 35327 https://enauczenie.pg.edu.pl/moodle/course/view.php?id=35327	
Example issues/ example questions/ tasks being completed	What does intellectual capital represent in the enterprise? What is the role of the IT system in an enterprise depending on the sector? What are the possible applications of the Business Intelligence system? How CRM systems support customer relationship management? List 5 advantages of using MRP II system? What are biggest challenges of IT system implementation?		
Work placement	Not applicable		