

Subject card

Subject name and code	Business Informatics, PG_00178897						
Field of study	Finance and Accounting						
Date of commencement of studies	October 2025		Academic year of realisation of subject		2025/2026		
Education level	Bachelor's 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	1		ECTS credits		5.0		
Learning profile	academic		Assessment form		exam		
Conducting unit							
Name and surname of lecturer (lecturers)	Subject supervisor		dr Marek Markowski				
	Teachers						
Lesson types	Lesson type	Lecture	Tutorial	Laboratory	Project	Seminar	SUM
	Number of study hours	8.0	0.0	24.0	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		2.0		91.0	125
Subject objectives	Educational objectives						
	To provide knowledge and teach the student: - to prepare the student for effective and safe use of information technologies, - the correct usage of terminology related to information technology, - to acquire skills in creating documents, spreadsheets and multimedia presentations, principles of visual communication, - to teach the principles of safe usage of the Internet, searching for information and critically evaluating and selecting it.						

Learning outcomes	Course outcome	Subject outcome	Method of verification
	[FiRL3_W06] To an advanced degree, the student knows and understands the objectives, essence, nature and interrelationships of financial processes, ways of recording them, and the principles of rational decision-making and implementation of changes in this area.	The student identifies and explains the need to use appropriate IT tools in the process of rational decision-making. Is able to calculate, evaluate and vary the results in the analysis of resources, areas and connections of financial processes.	[SW4] test/exam - oral or written [SW2] presentation/project/paper/report
	[FiRL3_U12] The student can utilize IT tools to enhance finance and accounting tasks.	The student is able to select, choose and use software tools (spreadsheets, text editors, graphic processing and visualization software) and selected information technologies supporting the processes of collecting, storing, sharing and processing data supporting work in the area of finance and accounting.	[SU2] presentation/project/paper/report
	[FiRL3_U03] The student can obtain data and verify its accuracy from appropriately selected sources and use these data to analyse and evaluate economic processes and phenomena in management and quality sciences, economics and finance.	The student correctly and critically selects data sources, selects and uses data and, as appropriate, processes and visualizes information in the analysis, evaluation, design and construction of IT tools supporting the understanding of managerial, economic and financial phenomena and processes.	[SU2] presentation/project/paper/report
	[FiRL3_W05] To an advanced degree, the student knows and understands the tools and techniques for obtaining, compiling, and analyzing the data necessary to assess the financial situation of various entities in management, quality sciences, economics, and finance.	The student recognizes and selects methods and techniques for collecting, storing, analyzing and processing data in the context of assessing the financial situation of an enterprise. He is able to find, examine, verify, question and reject erroneous data.	[SW4] test/exam - oral or written [SW2] presentation/project/paper/report

Subject contents	Lectures (8 hours):		
	1. Introduction to economic informatics, 2. Teleinformatics technologies (including: Computer hardware, Computer networks, Internet of Things) 3. Computer software and programming and Cloud Computing 4. Creating IT systems (including: business process modeling, methodologies for creating IT systems, databases and Big Data) 5. IT project management. Management IT systems 6. Digital economy (including: tools supporting knowledge management, information society, e-business, e-learning, communication and cooperation tools). 7. Advanced techniques for searching for information on the Internet. White intelligence, legality. 8. Public presentations of business data - principles, "good practices", selection of tools 9. CMS tools. Wordpress. Principles of creating websites. Visual identification. Hosting, Administration. Website security. SEO elements.		
	Labs (24 hours):		
	1. Advanced use of MS Excel -12 hours: • Spreadsheet - principles of working with spreadsheets in solving business problems, optimizing work with large amounts of data, preparing business reports Solving business problems using conditional, date and time, text and financial analysis functions. • Pivot tables and charts based on the data model • Data visualization and creation of dashboards. Automation of work in the spreadsheet, creation of forms, use of macros, advanced data filtering • Solver tool, multidimensional analysis, conditional analysis, scenario manager, optimization of the objective function 2. Visual communication - 4 hours: • Tools and techniques for effective content delivery. Preparing business reports • Audience interaction tools, graphic elements, infographics, visual notes. Teamwork tools. • Forms, surveys, reports, presentations, stories. Google Forms and Sway application. 3. Advanced information retrieval techniques - 4 hours: • Sources of information, quality of information, verification of information credibility, • White intelligence on the Internet, WWW browsers, selected web search engines, elements of Google Hacking 4. CMS Systems - 4 hours: • Acquiring, processing and presenting business data using Internet services • Working with the CMS system. WordPress configuration. Administrative activities. Personalization of appearance. • Content creation. Wordpress management, user management, Plug-in installation.		
Prerequisites and co-requisites	Basic computer skills and the ability to use the Internet.		
Assessment methods and criteria	Subject passing criteria	Passing threshold	Percentage of the final grade
	Visual Communication Project	51.0%	10.0%
	WWW Design and Implementation	51.0%	15.0%
	MS Word Report on Information searching	51.0%	15.0%
	MS Excel Project	51.0%	35.0%
	Lecture test	51.0%	25.0%

