



Subject card

Subject name and code	COMPUTER SCIENCE IN MANAGEMENT, PG_00061446						
Field of study	Engineering Management						
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 (on-line)		Mode of delivery		blended-learning		
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 -> Wydział Politechniki Gdańskiej						
Name and surname of lecturer (lecturers)	Subject supervisor		dr inż. Anna Trzaskowska				
	Teachers		dr inż. Anna Trzaskowska				
Lesson types and methods of instruction	Lesson type	Lecture	Tutorial	Laboratory	Project	Seminar	SUM
	Number of study hours	0.0	0.0	24.0	0.0	0.0	24
	E-learning hours included: 20.0						
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		3.0		73.0	100
Subject objectives	Business data analysis and visualization - identifying sources of reliable data, analyzing and visualizing them, and using the results to evaluate and support management processes.						
Learning outcomes	Course outcome		Subject outcome		Method of verification		
	[K6_U07] applies information technology to improve critical analysis and evaluation of data and management processes		Uses known methods and tools to critically analyze and evaluate management processes. Presents the results of his work.		[SU1] Assessment of task fulfilment [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 [SU5] Assessment of ability to present the results of task		
	[K6_W03] identifies reliable sources of information relevant to the analyzed issues		Analyzes data and information from various sources.		[SW1] Assessment of factual knowledge [SW2] Assessment of knowledge contained in presentation [SW3] Assessment of knowledge contained in written work and projects		

Subject contents	Data acquisition.		
	Excel Power Query and Power BI as a tool for data analysis and visualization.		
	Gaining a competitive advantage through the use of methods business analytics.		
Prerequisites and co-requisites			
Assessment methods and criteria	Subject passing criteria	Passing threshold	Percentage of the final grade
	practical exercises	60.0%	50.0%
	mini project	60.0%	50.0%
Recommended reading	Basic literature	Radziszewski P., Business Intelligence, Poltex, Warszawa, 2016	
		Surma J., Business Intelligence, PWN, Warszawa, 2018	
		Surma J, Cyfryzacja życia w erze Big Data, PWN, Warszawa, 2017	
	Supplementary literature	Own materials for laboratories	
	eResources addresses	Adresy na platformie eNauczanie: Informatyka w Zarządzaniu - NSTAC online - 2023/2024 - Moodle ID: 36384 https://enauczanie.pg.edu.pl/moodle/course/view.php?id=36384	
Example issues/ example questions/ tasks being completed	Introduction to Power BI.		
	Data import.		
	Working with data in Power Query.		
	Creating relations.		
	Reports.		
	DAX functions.		
Work placement	Not applicable		

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