

Subject card

Subject name and code	Data Mining, PG_00049365							
Field of study	Informatics							
Date of commencement of studies	October 2023		Academic year of realisation of subject			2024/2025		
Education level	second-cycle studies		Subject group			Optional subject group 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			Polish		
Semester of study	3		ECTS credits			4.0		
Learning profile	general academic profile		Assessment form			exam		
Conducting unit	Department of Biome	Department of Biomedical Engineering -> Faculty of Electronics, Telecommunications and Informatics						ormatics
Name and surname	Subject supervisor		dr inż. Agata Kołakowska					
of lecturer (lecturers)	Teachers		dr inż. Agata Kołakowska					
Lesson types and methods	Lesson type	Lecture	Tutorial	Laboratory	Projec	oject Seminar		SUM
of instruction	Number of study hours	18.0	0.0	15.0	0.0		0.0	33
		E-learning hours included: 0.0					l .	l
Learning activity and number of study hours	Learning activity	Participation in classes include plan		Participation in consultation hours		Self-study		SUM
	Number of study hours	33		10.0		57.0		100
Subject objectives	The aim of the course is to introduce students with knowledge and skills in the basics of data mining.							
Learning outcomes	Course out			ject outcome			Method of ve	rification
ŭ	[K7_W41] Knows and understands, to an increased extent, the standards, production methods, life cycle and development trends of software as well as information systems and applications.		The student designs a data mining process. He or she knows the fundamental methods and algorithms used in the data mining process.			[SW1] Assessment of factual knowledge		
	[K7_U05] can plan and conduct experiments related to the field of study, including computer simulations and measurements; interpret obtained results and draw conclusions		The student can analyse data sources -their contents and their formats. He or she knows how to design and implement the process of data preprocessing and is able to conduct the data mining process.			[SU1] Assessment of task fulfilment		
Subject contents	Basis of data mining—the role of data mining and methods. Data preprocessing methods. 11. Association rules—selected methods. Data classification in data mining. Measures and methods used for the evaluation of rules. Deep learning. Knowledge formulation, filtration and visualization. Examples of systems and applications. Multimedia data retrieval. Multimedia data mining.							
Prerequisites and co-requisites	database course, fundamentals of computer programming (C/C++/Java)							

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Assessment methods	Subject passing criteria	Passing threshold	Percentage of the final grade			
and criteria	test and assigments	50.0%	20.0%			
	exam	50.0%	40.0%			
	laboratory	50.0%	40.0%			
Recommended reading	Basic literature	danych Wprowadzer danych, PWN, 2006 Micheline Kamber, E Concepts and Techr Kaufmann, 2006 J. F Wprowadzenie do h	nniel T. Larose, Odkrywanie wiedzy z nych Wprowadzenie do eksploracji nych, PWN, 2006 Jiawei Han, cheline Kamber, Data Mining: oncepts and Techniques, Morgan- iufmann, 2006 J. Rumi ski, prowadzenie do hurtownii i eskploracji nych, Wydawnictwo Politechniki Gda			
	upplementary literature brak					
	eResources addresses	Adresy na platformie eNauczanie:				
Example issues/ example questions/ tasks being completed						
Work placement	Not applicable					

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