

Subject card

Subject name and code	Data Mining, PG_00049365								
Field of study	Informatics								
Date of commencement of	October 2024	Academic year of			2025/2026				
studies	OCIODEI 2024		Academic year of realisation of subject			2025/2026			
Education level	second-cycle studies		Subject gro	oup		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	Ir inż. Agata Kołakowska					
Lesson types and methods of instruction	Lesson type	Lecture	Tutorial	Laboratory	Projec	:t	Seminar	SUM	
	Number of study hours	18.0	0.0	15.0	0.0		0.0	33	
	E-learning hours included: 0.0								
Learning activity and number of study hours	Learning activity	_earning activity Participation in		Participation in consultation hours		Self-st	tudy	SUM	
	classes includ		led in study						
	Number of study hours	33	10.0			57.0		100	
Subject objectives	The aim of t	he cours	e is to in	troduce	stud	ents	with		
	knowledge a	and skills	s in the basics of data mining.						
Learning outcomes						Method of verification			
	[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			
	[K7_W41] Knows and		The student designs a data mining			[SW1] Assessment of factual			
	understands, to an increased		process. He or she knows the fundamental methods and algorithms used in the data mining process.			knowledge			
	extent, the standards methods, life cycle a								
	development trends well as information s								
	applications.								
Subject contents	Basis of data	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	database course, fundamentals of computer programming (C/								
and co-requisites									
	C++/Java)								

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Assessment methods	Subject passing criteria	Descine threshold	Derechtage of the final grade			
and criteria	l	Passing threshold	Percentage of the final grade			
and Citteria	laboratory	50.0%	40.0%			
	exam	50.0%	40.0%			
	test and assigments	50.0%	20.0%			
Recommended reading	Basic literature	Daniel T. Larose, Odkrywanie wiedzy z danych Wprowadzenie do eksploracji danych, PWN, 2006 Jiawei Han, Micheline Kamber, Data Mining: Concepts and Techniques, Morgan- Kaufmann, 2006 J. Rumi ski, Wprowadzenie do hurtownii i eskploracji danych, Wydawnictwo Politechniki Gda skiej, Gda sk, 2015.				
	Supplementary literature	brak				
	eResources addresses	Adresy na platformie eNauczanie:				
Example issues/ example questions/ tasks being completed						
Work placement	Not applicable					

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