



Subject card

Subject name and code	Data Mining, PG_00049365						
Field of study	Informatics						
Date of commencement of studies	October 2026	Academic year of realisation of subject			2027/2028		
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 Biomedical Engineering -> Faculty of Electronics Telecommunications and Informatics -> Faculties of Gdańsk University of Technology						
Name and surname of lecturer (lecturers)	Subject supervisor	dr inż. Agata Kołakowska					
	Teachers	dr inż. Agata Kołakowska					
Lesson types	Lesson type	Lecture	Tutorial	Laboratory	Project	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	Participation in didactic classes included in study 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 outcome		Subject outcome		Method of verification		
Subject contents	Course content – lecture 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)						
Assessment methods and criteria	Subject passing criteria		Passing threshold		Percentage of the final grade		
	exam		50.0%		40.0%		
	test and assignments		50.0%		20.0%		
	laboratory		50.0%		40.0%		

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	
Example issues/ example questions/ tasks being completed		
Practical activites within the subject	Not applicable	

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