GDAŃSK UNIVERSITY OF TECHNOLOGY

Subject card

Subject name and code	Data Mining, PG_00049365		
Field of study	Informatics		
Date of commencement of studies	October 2025	Academic year of realisation of subject	2026/2027
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 -> Wydziały Politechniki Gdańskiej		
Name and surname of lecturer (lecturers)	Subject supervisor	dr inż. Agata Kołakowska	
	Teachers	dr inż. Agata Kołakowska	

Lesson types and methods of instruction

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

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
laboratory	50.0%	40.0%
test and assigments	50.0%	20.0%
exam	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		
Work placement	Not applicable	

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