GDAŃSK UNIVERSITY OF TECHNOLOGY

Subject card

Subject name and code	Knowledge databases , PG_00062408		
Field of study	Biomedical Engineering		
Date of commencement of studies	February 2023	Academic year of realisation of subject	2023/2024
Education level	second-cycle studies	Subject group	
Mode of study	Full-time studies	Mode of delivery	at the university
Year of study	2	Language of instruction	Polish
Semester of study	3	ECTS credits	5.0
Learning profile	general academic profile	Assessment form	assessment
Conducting unit	Department of Multimedia Systems -> Faculty of Electronics, Telecommunications and Informatics		
Name and surname of lecturer (lecturers)	Subject supervisor	dr Michał Kucewicz	
	Teachers	dr Michał Kucewicz	

Lesson types and methods of instruction

Lesson type	Lecture	Tutorial	Laboratory	Project	Seminar	SUM
Number of study hours	0.0	0.0	0.0	70.0	30.0	100

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	100	0.0	0.0	100

Subject objectives

The aim of the course is to extend the student's knowledge of ontological methods of data description and to apply this knowledge in a research project in order to integrate the studied data into coherent databases for subsequent interpretation

Learning outcomes

Course outcome	Subject outcome	Method of verification
[K7_K71] is able to explain the need to apply knowledge from humanistic, social, economic or legal sciences in order to function in a social environment	Student understands the legal aspects of storing biomedical data	[SK5] Assessment of ability to solve problems that arise in practice
[K7_W71] has general knowledge in humanistic, social, economic or legal sciences, including their fundamentals and applications	The student knows the methods and needs of data collection and their importance in transfer of knowledge	[SW3] Assessment of knowledge contained in written work and projects
[K7_U71] is able to apply knowledge from humanistic, social, economic or legal sciences in order to solve problems	The student is able to use ontological methods in data processing	[SU5] Assessment of ability to present the results of task

Subject contents

Types of knowledge bases

Ontological methods for data description

Practical learning for structuring and integrating biomedical data

Prerequisites and co-requisites

Assessment methods and criteria

Subject passing criteria	Passing threshold	Percentage of the final grade
	50.0%	100.0%

Recommended reading

Basic literature	Data-Handling in Biomedical Science, Peter White, Cambridge University Press, ISBN: 9780521194556
Supplementary literature	Ontological Engineering, Springer, ISBN: 44742713
eResources addresses	Adresy na platformie eNauczanie:

Example issues/ example questions/ tasks being completed

Processing data from experiments aimed at exploring the cognitive functions of the brain into a coherent database using ontological methods

Work placement

Not applicable