

## SDAŃSK UNIVERSITY 的 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, Telecommur				nications 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 Projec		t	Seminar	SUM	
	Number of study hours	0.0	0.0	0.0	70.0	70.0 30.0		100	
	E-learning hours included: 0.0								
Learning activity and number of study hours	Learning activity	Participation in classes includ plan	n didactic ed in study	Participation i consultation h	n Iours	Self-study		SUM	
	Number of study 100 hours			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 out	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	Fypes 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								