GDAŃSK UNIVERSITY OF TECHNOLOGY

Subject card

Subject name and code	Big Data analysis, PG_00045382						
Field of study	Data Engineering						
Date of commencement of studies	October 2024		Academic year of realisation of subject		2027/2028		
Education level	first-cycle studies		Subject group		Optional subject group Subject group related to scientific research in the field of study		
Mode of study	Full-time studies		Mode of delivery		at the university		
Year of study	4		Language of instruction		English		
Semester of study	7		ECTS credits		4.0		
Learning profile	general academic profile		Assessment form		assessment		
Conducting unit	Department of Software Engineering -> Faculty of Electronics, Telecommunications and Informatics						
Name and surname of lecturer (lecturers)	Subject supervisor	dr inż. Wojciech Waloszek					
	Teachers	dr inż. Wojciech Waloszek					

Lesson types and methods of instruction	Lesson type	Lecture	Tutorial	Laboratory	Project	Seminar	SUM
	Number of study hours	0.0	0.0	30.0	0.0	0.0	30
	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	30	5.0	65.0	100

Subject objectives	The aim of the course is to familiarize students with the methods of storing and analysis of big data. Practical tools for these tasks are presented.

Learning outcomes	Course outcome	Subject outcome	Method of verification

Subject contents	1. Big data characteristics 2. Open Linked Data 3. Acquiring linked data 4. Internet robots and semistructural data analysis 5. Storing big data 6. Data mining algorithms for big data 7. Methods and tools for analysing big data

Prerequisites and co-requisites	Basic knowledge about Map-Reduce paradigm.

Assessment methods and criteria	Subject passing criteria	Passing threshold	Percentage of the final grade
	Practical exercises	50.0%	70.0%
	Written test	50.0%	30.0%

Recommended reading	Basic literature	1. Liu B., "Web data mining", Springer, 2011 2. White T., "Hadoop, the definitive guide", O'Reilly, 2012 3. George L., "HBase, the definitive guide", O'Reilly, 2011
	Supplementary literature	none
	eResources addresses	Adresy na platformie eNauczanie:

Example issues/ example questions/ tasks being completed	

Work placement	Not applicable

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