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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