

## Subject card

Subject name and code	TEXT MINING METHODS, PG_00060825							
Field of study	Economic Analytics							
Date of commencement of	October 2024	Academic year of			2025/2026			
studies			realisation of subject					
Education level	second-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	2		Language of instruction			English		
Semester of study	4		ECTS credits			3.0		
Learning profile	general academic profile		Assessment form			assessment		
Conducting unit	Department of Statistics and Econometrics -> Faculty of Management and Economics							
Name and surname	Subject supervisor		dr hab. Michał Pietrzak					
of lecturer (lecturers)	Teachers	s						
Lesson types and methods of instruction	Lesson type	Lecture	Tutorial	Laboratory	ratory Project		Seminar	SUM
	Number of study hours	15.0	0.0	30.0	0.0		0.0	45
	E-learning hours inclu	ıded: 0.0						
Learning activity and number of study hours	Learning activity	Participation in classes include plan		Participation in consultation hours		Self-study		SUM
	Number of study hours	45		4.0		26.0		75
Subject objectives	Assesses the situation of economic phenomena, creating scenarios based on Text Mining research							
Learning outcomes	Course outcome Subject outcome Method of verificati					rification		
	[K7_U04] Prepares and delivers convincing presentations of the results of specialized analyses, providing in-depth interpretations during debates and meetings with diverse audiences.		critically evaluate the results of analyzes by presenting persuasive presentations along with their in- depth interpretation			[SU5] Assessment of ability to present the results of task		
	[K7_W06] Knows and understands the principles of evaluating the reliability of utilized data, applying in-depth specialized knowledge in the field of economic analysis		analyzes economic phenomena on the basis of textual sources, selecting appropriate methods and techniques			[SW1] Assessment of factual knowledge		
Subject contents	Introduction to Text Mining. Economic phenomena analyzed on the basis of textual sources - characteristics, empirical examples  Text mining in business context. The process of obtaining text data by researchers, institutions, enterprises, official statistics services and their publication in databases  The problem of accessibility and distribution of text data due to various criteria  Scope and types of text data research, classification criteria, examples of research  Methods and techniques used in Text Mining research Text categorization  Topic Modelling  Using Web Crawling in Text Mining Research  Fundementals of Machine Learning Algorithms for Text Mining  Document Summarization methods  Sentiment Analysis  Name Entity Recognition (NER) technique  The problem of presenting text data and the results of Text Mining analysis  The problem of assessing the situation of economic phenomena and creating scenarios based on Text  Mining research							
Prerequisites and co-requisites								
Assessment methods and criteria	Subject passin	g criteria	Pass	ing threshold		Per	centage of the	e final grade
	Exam					70.0%		
	Test		60.0%			30.0%		

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Recommended reading	Basic literature	Jo, T. (2019). Text mining. Cham, Switzerland: Springer International Publishing Hofmann, M., & Chisholm, A. (Eds.). (2016). Text mining and visualization: Case studies using open-source tools. CRC Press Miner, G. (2012). Practical text mining and statistical analysis for non-structured text data applications. Academic Press
	Supplementary literature	Silge, J., & Robinson, D. (2016). tidytext: Text mining and analysis using tidy data principles in R. Journal of Open Source Software, 1(3), 37 Silge, J., & Robinson, D. (2017). Text mining with R: A tidy approach. "O'Reilly Media, Inc." Munzert, S., Rubba, C., Meißner, P., & Nyhuis, D. (2014). Automated data collection with R: A practical guide to web scraping and text mining. John Wiley & Sons Aydin, O. (2018). R Web Scraping Quick Start Guide: Techniques and tools to crawl and scrape data from websites. Packt Publishing Ltd.
	eResources addresses	Adresy na platformie eNauczanie:
Example issues/ example questions/ tasks being completed		
Work placement	Not applicable	

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