

Subject card

Subject name and code	Intelligent Information Services, PG_00064511								
Field of study	Informatics								
Date of commencement of studies	October 2024		Academic year of realisation of subject			2025/2026			
Education level	second-cycle studies		Subject group			Optional subject group Specialty 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	3		ECTS credits			3.0	3.0		
Learning profile	general academic profile		Assessment form			exam			
Conducting unit	Department of Computer Architecture -> Faculty of Electronics, Telecommunications and Informatics							rmatics	
Name and surname	Subject supervisor		dr hab. inż. Julian Szymański						
of lecturer (lecturers)	Teachers		dr hab. inż. Julian Szymański						
Lesson types and methods of instruction	Lesson type	Lecture	Tutorial	Laboratory	Projec	:t	Seminar	SUM	
	Number of study hours	15.0	0.0	0.0	30.0		0.0	45	
	E-learning hours included: 0.0								
Learning activity and number of study hours	Learning activity	Participation i classes include plan		Participation in consultation hours		Self-study		SUM	
	Number of study hours	45		9.0		21.0		75	
Subject objectives	introduction to natural language processing information retrieval machine learning in text categorization 208/5000tworzy aplikacje graficzne,								

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Learning outcomes	Course outcome	Subject outcome	Method of verification				
	[K7_W03] knows and understands, to an increased extent, the construction and operating principles of components and systems related to the field of study, including theories, methods and complex relationships between them and selected specific issues - appropriate for the curriculum	knows methods of data visualisation	[SW1] Assessment of factual knowledge				
	[K7_K02] is ready to provide critical evaluation of received content and to acknowledge the importance of knowledge in solving cognitive and practical problems	knows ranking algorithms	[SK2] Assessment of progress of work				
	[K7_U43] can apply information technologies in market economy and information society conditions as well as algorithmize and computerize cognitive and decision-making processes in other areas of knowledge	if familiar with dictionary creation, spelling correction and text search,	[SU1] Assessment of task fulfilment				
	[K7_U08] while identifying and formulating engineering tasks specifications and solving these tasks, can: - apply analytical, simulation and experimental methods, - notice their systemic and non-technical aspects, - make a preliminary economic assessment of suggested solutions and engineering work	writes programs for text segmentation,	[SU1] Assessment of task fulfilment				
Subject contents	1. Pass conditions 2. Informatic and cognitive science 3. Intelligence, service, information - terms definitions 4. Text representation, VSM 5. Text classification - Naive bayes 6. Text classification - SVM 7. Dimension reduction 8. PCA Algorithm 9. SVD Algorithm and application to LSI 10. Web search engines architectire 11. Google and PageRank algorithm 12. HITS algorithm 13. Text clusterization 14. Natural language processing tools 15. Lexical sources: Wordnet 16. Knowledge representation methods 17. Description logic as ontology language 18. Final exam						
Prerequisites and co-requisites							
Assessment methods	Subject passing criteria	Passing threshold	Percentage of the final grade				
and criteria	Project	50.0%	50.0%				
	Written exam	50.0%	50.0%				
Recommended reading	Basic literature Mieczysław Alojzy Kłopotek, "Inteligentne wyszukiwarki interne Akademicka Oficyna Wydawnicza EXIT, Warszawa 2001 Rical Baeza-Yates Berthier Ribeiro-Neto Modern Information Retriev						
	Supplementary literature	FABRIZIO SEBASTIANI Machine Learning in Automated Text Categorization. S. Brin, L. Page The anatomy of a large-scale hypertextual Web search engine					
	eResources addresses	Adresy na platformie eNauczanie:					
Example issues/ example questions/ tasks being completed	e issues/ e questions/						
Work placement	Not applicable						

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