

## Subject card

Subject name and code	Business Data Semantics and Representation, PG_00053100							
Field of study	Data Engineering							
Date of commencement of studies	October 2022		Academic year of realisation of subject			2024/2025		
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	3		Language of instruction			Polish		
Semester of study	6		ECTS credits			5.0		
Learning profile	general academic profile		Assessment form			exam		
Conducting unit	Department of Informatics in Management -> Faculty of Management and Economics							
Name and surname	Subject supervisor		dr lic. Adegboyega Ojo					
of lecturer (lecturers)	Teachers		dr lic. Adegboyega Ojo					
Lesson types and methods of instruction	Lesson type	Lecture	Tutorial	Laboratory	Projec	:t	Seminar	SUM
	Number of study hours	30.0	0.0	30.0	0.0		0.0	60
	E-learning hours included: 0.0							
Learning activity and number of study hours	Learning activity	Participation in classes include plan			Self-study		SUM	
	Number of study hours	60		8.0		57.0		125
Subject objectives	The aim of the course is to present the possibilities of applying web intelligence methods in business.							
Learning outcomes	Course outcome		Subject outcome			Method of verification		
	[K6_K03] Knows how to cooperate or work in a project team and take managerial or executive functions.					[SK1] Assessment of group work skills		
	[K6_W03] Knows the applications of geoinformation systems, spatial data formats, methods of creating and analysing digital maps, architecture and services of satellite navigation systems.  [K6_U11] is able to use		Student is abl		40.010		Assessment	of task
	mathematical and IT tools in economics.		mathematical and computer tools in economics.			fulfilment		

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Subject contents	Idea of the Semantic Web						
	Monitoring of the Internet, brand protection						
	NI D as a knowledge discovery method of the Comentic Web, continued and the continue						
	NLP as a knowledge discovery method of the Semantic Web, sentiment analysis						
	Social networks analysis						
	Social fietworks affailysis						
	Introduction to ontologies						
	Resource Description Framework (RDF)						
	Web Ontology Language (OWL)						
	Semantic Web Rule Language (SWRL) as an extension of OWL						
	Description Logic (DL) and inference	tion Logic (DL) and inference algorithms					
	Knowledge bases vs. databases						
	Elements of ontology engineering						
	Application of compating to should rise in business						
	Application of semantic technologie	s in business					
Prerequisites	No requirements						
and co-requisites							
Assessment methods	Subject passing criteria	Passing threshold	Percentage of the final grade				
and criteria	Reports	60.0%	50.0%				
	Exam	60.0%	50.0%				
Recommended reading	Basic literature	Goczyła, K. (2011) Ontologie W Systemach Informatycznych, Exit					
		Mykowiecka, A (2007) Inżynieria Lingwistyczna, PJWSTK					
	Supplementary literature	Antoniou, G. (2004) A Semantic Web Primer					
		Baader, F. (2003) The description logic handbook: theory,					
		Cambridge University Press					
	eResources addresses Adresy na platformie eNauczanie:						
Example issues/	Application of sentiment monitoring tools fondness in brand protection						
example questions/ tasks being completed							
tasks being completed	Detection of trends in social networks						
	Station of Condo in Social Networks						
	Semantic data integration						
Work placement	Not applicable						

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