

Subject card

Subject name and code	Cloud computing, PG_00156662						
Field of study	Information Science and Econometrics						
Date of commencement of studies	October 2024		Academic year of realisation of subject		2025/2026		
Education level	postgraduate studies		Subject group		Obligatory subject group in the field of study Subject group related to scientific research in the field of study		
Mode of study	part-time studies		Mode of delivery		at the university		
Year of study	2		Language of instruction		Polish		
Semester of study	4		ECTS credits		2.0		
Learning profile	academic		Assessment form				
Conducting unit	Katedra Informatyki Ekonomicznej -> Faculty of Management						
Name and surname of lecturer (lecturers)	Subject supervisor		dr Dariusz Kralewski				
	Teachers						
Lesson types	Lesson type	Lecture	Tutorial	Laboratory	Project	Seminar	SUM
	Number of study hours	0.0	0.0	15.0	0.0	0.0	15
	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	15		10.0		25.0	50
Subject objectives	Students will learn about the technology, best practices, economic aspects of cloud computing and the benefits and risks of cloud computing deployment.						

Learning outcomes	Course outcome	Subject outcome	Method of verification
	[liEMU2_U08] The student can analyse business needs and, as appropriate, configure and apply modern information and communication technologies in business management and business communication.	Creates Big Data resources in the cloud Uses available Big Data solutions provided by cloud providers Uses Big Data services in the cloud infrastructure	[SU2] presentation/project/paper/report
	[liEMU2_W05] The student has an in-depth knowledge of socio-economic data sources, their databases and how to create them.	Knows the rules for building Big Data services in the cloud Knows the rules for building database services in the cloud Knows the security considerations involved in creating and using Big Data services in the cloud	[SW2] presentation/project/paper/report
	[liEMU2_W04] The student has an in-depth knowledge of advanced mathematical, statistical, econometric and IT methods that enable the acquisition, processing and analysis of data reflecting the functioning and growth of the national economy and its components, as well as the phenomena and processes occurring in their environment.	Knows the rules for building Big Data services in the cloud Knows the rules for building database services in the cloud Knows the security considerations involved in creating and using Big Data services in the cloud	[SW2] presentation/project/paper/report
	[liEMU2_U01] The student can comprehensibly, orally and in writing, present and justify in depth advanced economic theories and apply them to explain the functioning of the national economy and its components. Understands and can explain the content of communications from economic institutions, articles in the economic press and scientific journals.	Creates Big Data resources in the cloud Uses available Big Data solutions provided by cloud providers Uses Big Data services in the cloud infrastructure	[SU2] presentation/project/paper/report
	[liEMU2_K05] The student can think and act in an entrepreneurial manner and flexibly adapt to changing environmental conditions. Thinks creatively and can go beyond the usual patterns.	Collaborates openly in a team consisting of analysts as well as developers and designers of server-side services Maintains professional contact with the environment translates it into analytical functions	[SK2] presentation/project/paper/report
	[liEMU2_K02] The student can communicate freely with the public on specialised topics in the field of computer science and econometrics in and outside the workplace, communicate his knowledge and share his skills through various media. Culturally participates in discussions, is not afraid to ask questions and knows how to give constructive criticism.	Collaborates openly in a team consisting of analysts as well as developers and designers of server-side services Maintains professional contact with the environment translates it into analytical functions	[SK2] presentation/project/paper/report
	[liEMU2_U02] The student is able to proficiently acquire detailed information about economic processes and phenomena through direct observation, planned experimentation or database queries, as well as collect and process it using modern information technology tools.	Creates Big Data resources in the cloud Uses available Big Data solutions provided by cloud providers Uses Big Data services in the cloud infrastructure	[SU2] presentation/project/paper/report
	[liEMU2_K01] The student understands the need for continuous completion and deepening of acquired knowledge. The student inspires and organizes others' learning processes.	Collaborates openly in a team consisting of analysts as well as developers and designers of server-side services Maintains professional contact with the environment translates it into analytical functions	[SK2] presentation/project/paper/report

	<table><tr><th>Course outcome</th><th>Subject outcome</th><th>Method of verification</th></tr><tr><td>[liEMU2_W07] The student has an extended and established knowledge of ethical norms applicable to business, good practices for its conduct and legal regulations for the protection of intellectual property. The student has an extended knowledge of the risks and responsibilities associated with the computerization of business processes. The student knows the principles of netiquette.</td><td>Knows the rules for building Big Data services in the cloud Knows the rules for building database services in the cloud Knows the security considerations involved in creating and using Big Data services in the cloud</td><td>[SW2] presentation/project/paper/report</td></tr></table>	Course outcome	Subject outcome	Method of verification	[liEMU2_W07] The student has an extended and established knowledge of ethical norms applicable to business, good practices for its conduct and legal regulations for the protection of intellectual property. The student has an extended knowledge of the risks and responsibilities associated with the computerization of business processes. The student knows the principles of netiquette.	Knows the rules for building Big Data services in the cloud Knows the rules for building database services in the cloud Knows the security considerations involved in creating and using Big Data services in the cloud	[SW2] presentation/project/paper/report		
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Subject contents	• Cloud computing technologies and providers, division into public, private and hybrid clouds; • Applications of cloud computing technologies in business; • Application of cloud computing in Big Data; • Strategies to increase organizational efficiency when implementing cloud technologies; • Evaluation of the benefits of cloud implementation.								
Prerequisites and co-requisites									
Assessment methods and criteria	<table><tr><th>Subject passing criteria</th><th>Passing threshold</th><th>Percentage of the final grade</th></tr><tr><td>project</td><td>51.0%</td><td>100.0%</td></tr></table>	Subject passing criteria	Passing threshold	Percentage of the final grade	project	51.0%	100.0%		
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Recommended reading	Basic literature	• Tejaswi Redkar, Tony Guidici, Platforma Windows Azure, Helion, 2013 • Zoiner Tejada, Mastering Azure Analytics. Architecting in the Cloud with Azure Data Lake, HDInsight, and Spark , O'Reilly, 2018							
	Supplementary literature	• Guy Harrison, NoSQL, NewSQL i BigData. Bazy danych następnej generacji, Helion, 2019 • Nathan Marz, James Warren, Big Data. Najlepsze praktyki budowy skalowalnych systemów obsługi danych w czasie rzeczywistym, Helion, 2016							
	eResources addresses	Adresy na platformie eNauczanie:							
Example issues/ example questions/ tasks being completed									
Work placement	Not applicable								

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