

Subject card

Subject name and code	Agent systems, PG_00045385							
Field of study	Data Engineering							
Date of commencement of studies	October 2024		Academic year of realisation of subject			2026/2027		
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	5		<u> </u>			4.0		
Learning profile	general academic profile		Assessment form			assessment		
Conducting unit	Department of Computer Architectur		re -> Faculty of Electronics, Telecommunications and Informatics					
Name and surname	Subject supervisor	dr inż. Mariusz Matuszek						
of lecturer (lecturers)	Teachers		dr inż. Mariusz Matuszek					
Lesson types and methods	Lesson type	Lecture	Tutorial	Laboratory	Project	t	Seminar	SUM
of instruction	Number of study hours	15.0	0.0	0.0	15.0		0.0	30
	E-learning hours included: 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	30		6.0		64.0		100
Subject objectives	The aim of the course is introduction to theory and practice of agent methodology in distributed systems.							
Learning outcomes	Course outcome Subject outcome Method of verification							
Subject contents	1. Explanation of criteria to successfully complete the course 2. Introduction to scope of the lecture and issues in multiagent systems 3. Definitions of agent and agent environment 4. Agent models and architectures 5. BDI agent properties 6. Rules of agent interactions 7. Agent algorithm properties 8. Agent search algorithms 9. Agent recommendation algorithms 10. Agent negotiation algorithms 11. Agent application structure 12. Lifecycle of agent application 13. Using services in an agent application 14. Agent development environments 15. Agent runtime environments 16. Examples of agent applications 17. Tests and exams							
Prerequisites and co-requisites	A basic knowledge of the Java programming language, as well as command line access to Linux helps.							
Assessment methods and criteria	Subject passing criteria		Passing threshold		Percentage of the final grade			
	practical exercises		50.0%		50.0%			
	written test	50.0% 50.0%						
Recommended reading	Basic literature		Woolridge Michael: An Introduction to Multiagent Systems. Weiss Gerhard (Ed.): Multiagent Systems - A Modern Approach to Distributed Artificial Intelligence.					
			JADE - Users Guide (*) JADE - Administrator Guide (*) (*) applies to hands-on exercises					
			() applied to flatido off excluded					

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	eResources addresses	Adresy na platformie eNauczanie:	
Example issues/ example questions/ tasks being completed	Implement a mobile agent with given Implement an agent service and pub Describe the use of ontologies in age	lish it in the agent's environment.	
Work placement	Not applicable		

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