

Subject card

Subject name and code	Multiagent Environments, PG_00047892								
Field of study	Informatics								
Date of commencement of	October 2023	Academic year of			2025/2026				
studies	00.0001 2020		realisation of subject			2025/2026			
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		ECTS credits			2.0			
Learning profile	general academic profile		Assessment form			assessment			
Conducting unit	Department of Comp	Department of Computer Architecture -> Faculty of Electronics, Telecommunications and Informatics						rmatics	
Name and surname	Subject supervisor	bject supervisor dr inż. Mariusz Matuszek							
of lecturer (lecturers)	Teachers		dr inż. Mariusz Matuszek						
Lesson types and methods	Lesson type	Lecture	Tutorial	Laboratory	Projec	t	Seminar	SUM	
of instruction	Number of study hours	15.0	0.0	15.0	0.0		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		2.0		18.0		50	
Subject objectives	Introduction to theory and practice of agent methodology in distributed systems.								
Learning outcomes	Course outcome		Subject outcome			Method of verification			
	[K6_U09] can carry out a critical analysis of the functioning of existing technical solutions and assess these solutions, as well as apply experience related to the maintenance of technical systems, devices and facilities typical for the field of studies, gained in the professional engineering environment		Student: - configures an agent environment - protects an agent environment against unauthorised access - implements and runs simple agent applications.			[SU1] Assessment of task fulfilment [SU4] Assessment of ability to use methods and tools			
			Student: - performs an indivdual assignment - takes part in a group assignment			[SU1] Assessment of task fulfilment			
[K6_W08] Knows and understands the fundame dilemmas of modern civili and basic economic, lega other conditions of various of activities related to the study, including the basic concepts and principles ir of industrial property and protection.			Student: - knows and differentiates between agent architectures - is able to classify agent interaction methods.			[SW1] Assessment of factual knowledge			
Subject contents	1. Introduction to agent systems. 2. Agent and agent environment definitions. 3. Agent models and architectures. 4. BDI agent properties and principles of operation. 5. Agent interaction rules. 6. Multiagent systems properties. 7. Agents search algorithms. 8. Agent recomendation algorithms. 9. Agent negotiation algorithms. 10. Agent applications structure. 11. Agent application lifecycle. 12. Use of services in agent applications. 13. Agent development environments. 14. Agent runtime environments. 15. Agent application examples. 16. Tests and exams.								
Prerequisites and co-requisites									

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Assessment methods and criteria	Subject passing criteria	Passing threshold	Percentage of the final grade		
	Practical exercise	50.0%	50.0%		
	Midterm colloquium	50.0%	50.0%		
Recommended reading	Basic literature	[1] Woolridge Michael: An Introduction to Multiagent Systems. [2] (Ed.) Weiss Gerhard: Multiagent Systems - A Modern Approach to Distributed Artificial Intelligence.			
	Supplementary literature	[1] JADE - Users Guide (*) [2] JADE - Administrator Guide (*) (*) literatura do części praktycznej przedmiotu / for exercises.			
	eResources addresses	Adresy na platformie eNauczanie:			
Example issues/ example questions/ tasks being completed					
Work placement	Not applicable				

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