

## Subject card

Subject name and code	Artificial intelligence in computer games, PG_00061799							
Field of study	Automation, Robotics and Control Systems							
Date of commencement of studies	October 2021		Academic year of realisation of subject			2024/2025		
Education level	first-cycle studies		Subject group					
Mode of study	Full-time studies		Mode of delivery			at the university		
Year of study	4		Language of instruction			Polish		
Semester of study	7		ECTS credits			3.0		
Learning profile	general academic profile		Assessment form			assessment		
Conducting unit	Katedra Elektrotechniki i Inżynierii Wysokich Napięć -> Faculty of Electrical and Control Engineering							
Name and surname	Subject supervisor		dr inż. Paweł Kowalski					
of lecturer (lecturers)	Teachers							
Lesson types and methods of instruction	Lesson type	Lecture	Tutorial	Laboratory	Project	t	Seminar	SUM
	Number of study hours	10.0	0.0	0.0	20.0		0.0	30
	E-learning hours included: 0.0							
Learning activity and number of study hours	Learning activity	Participation in didact classes included in st plan		Participation in consultation hours		Self-study		SUM
	Number of study hours	30		5.0		40.0		75
Subject objectives	Exploring the application of artificial intelligence in computer games and developing an agent that plays a chosen computer game.							
Learning outcomes	Course outcome		Subject outcome			Method of verification		
Subject contents	Markov Decision Process Reinforcement learning							
Prerequisites and co-requisites								
Assessment methods and criteria	Subject passing criteria		Passing threshold		Percentage of the final grade			
	Lecture assignment		50.0%		40.0%			
	Project					60.0%		
Recommended reading	Basic literature		Neural Networks and Deep Learning by Michael A. Nielsen, http://neuralnetworksanddeeplearning.com/					
	Supplementary literature		Reinforcement Learning by Richard S. Sutton and Andrew G. Barto, http://incompleteideas.net/book/the-book-2nd.html					
	eResources addresse	es	Adresy na platformie eNauczanie:					
Example issues/ example questions/ tasks being completed	Development of a bot playing a selected computer game.							
Work placement	Not applicable							

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