



Subject card

Subject name and code	Social and Psychological Aspects of Robotics & Automatic Controls - Seminar, PG_00048418						
Field of study	Automatic Control, Cybernetics and Robotics						
Date of commencement of studies	February 2023	Academic year of realisation of subject			2023/2024		
Education level	second-cycle studies	Subject group			Obligatory subject group in the field of study Humanistic-social subject group		
Mode of study	Full-time studies	Mode of delivery			at the university		
Year of study	1	Language of instruction			Polish		
Semester of study	2	ECTS credits			1.0		
Learning profile	general academic profile	Assessment form			assessment		
Conducting unit	Department of Decision Systems and Robotics -> Faculty of Electronics, Telecommunications and Informatics						
Name and surname of lecturer (lecturers)	Subject supervisor	dr inż. Michał Czubenko					
	Teachers	dr inż. Michał Czubenko					
Lesson types and methods of instruction	Lesson type	Lecture	Tutorial	Laboratory	Project	Seminar	SUM
	Number of study hours	0.0	0.0	0.0	0.0	15.0	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	1.0		9.0		25
Subject objectives	The basic aim of the course is to acquaint participants with the philosophical, psychological and sociological aspects of robotics and automation. In particular, issues such as: three laws of robotics, transfer of natural systems to mechanized systems, humanoid currents in robotics, autonomy of robots, and legal issues related to autonomous robots will be raised.						
Learning outcomes	Course outcome	Subject outcome			Method of verification		
	[K7_U71] is able to apply knowledge from humanistic, social, economic or legal sciences in order to solve problems	Student is able to assess the long-term social effects of the aspects of robotization.			[SU5] Assessment of ability to present the results of task [SU2] Assessment of ability to analyse information		
	[K7_K71] is able to explain the need to apply knowledge from humanistic, social, economic or legal sciences in order to function in a social environment	Student can refer to certain socio-psychological values at work.			[SK4] Assessment of communication skills, including language correctness		
	[K7_W71] has general knowledge in humanistic, social, economic or legal sciences, including their fundamentals and applications	Student has the basics of psychological and sociological knowledge in the aspect of RIA.			[SW1] Assessment of factual knowledge		
Subject contents	The subject will cover issues such as: <ul style="list-style-type: none">• the progressive development of artificial intelligence and its impact on society• humanoid robotics• can robots have emotions• development of robotization in the context of human support• development of vehicle autonomy and its effects• the loss of society in social media						
Prerequisites and co-requisites	Basic knowledge of Robotics and Artificial Intelligence.						

Assessment methods and criteria	Subject passing criteria	Passing threshold	Percentage of the final grade
		60.0%	100.0%
Recommended reading	Basic literature	<p>Mori, Masahiro, Karl F. MacDorman, and Norri Kageki. "The uncanny valley." <i>Robotics & Automation Magazine</i>, IEEE 19.2 (2012): 98-100.</p> <p>Inoue, Hirochika, et al. "Overview of humanoid robotics project of METI." <i>Proc. of the 32nd ISR</i> (2001).</p> <p>Daisuke Chugo, Sho Yokota "Introduction to Modern Robotics" CreateSpace Independent Publishing Platform (2012)</p>	
	Supplementary literature	<p>Bekey, G. "Current trends in robotics: technology and ethics." <i>Robot ethics: the ethical and social implications of robotics</i>. MIT Press, Cambridge (2012): 17-34.</p> <p>Balaguer, Carlos, and Mohamed Abderrahim. <i>Trends in robotics and automation in construction</i>. INTECH Open Access Publisher, 2008.</p>	
	eResources addresses	Adresy na platformie eNauczanie:	
Example issues/ example questions/ tasks being completed			
Work placement	Not applicable		

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