

## 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			
Made of study	Full-time studies		Made of delivery			Humanistic-social subject group at the university			
Mode of study Year of study	1		Mode of delivery			Polish			
•	2		Language of instruction ECTS credits			1.0			
Semester of study	general academic profile		Assessment form			assessment			
Learning profile	,								
Conducting unit	Department of Decision Systems and Robotics -> Faculty of Electronics, Telecommunications and Informatics							anu	
Name and surname	Subject supervisor		dr inż. Michał Czubenko						
of lecturer (lecturers)	Teachers		dr inż. Michał						
Lesson types and methods of instruction	Lesson type	Lecture	Tutorial	Laboratory	Projec	t	Seminar	SUM	
	Number of study hours	0.0	0.0	0.0	0.0		15.0	15	
	E-learning hours inclu								
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	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:  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.								

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

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