

Subject card

Subject name and code	Social and Psychological Aspects of Robotics & Automatic Controls, PG_00048422								
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			
NA 1 6 6 1	Full time studies		NA - d C d - U -			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			2.0			
Learning profile		ral academic profile Assessment form assessment							
Conducting unit	Department of Decision Systems and Robotics -> Faculty of Electronics, Telecommunications and Informatics							and	
Name and surname	Subject supervisor	ubject supervisor dr inż. Michał Czubenko							
of lecturer (lecturers)	Teachers		dr inż. Michał Czubenko						
Lesson types and methods	Lesson type	Lecture	Tutorial	Laboratory	Projec	t	Seminar	SUM	
of instruction	Number of study hours	30.0	0.0	0.0	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	The aim of the course is to familiarize participants with the philosophical, psychological and sociological aspects of the latest technological trends in the field of robotics, control systems and IT. The classes are based on oxford debates on specific topics. Content such as the three laws of robotics, aspects of robot autonomy, and legal issues of artificial intelligence, and many others may be discussed on the course. The course was modernized as part of the IDUB project.								
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			
			Student can refer to certain socio- psychological values at work. Student can present arguments in a debate.			[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 terms of the latest technologies related to ICT.			[SW1] Assessment of factual knowledge			
Subject contents									
	The following topics will be covered in the course: The introduction of parity in politics and companies will make equality happen. Widespread access to drugs would reduce the number of addicts. The publication of false information on the Internet makes people believe it after some time. Social media makes people more lonely and prone to suicidal depression. The development of robotics (personal and production) will force us to use exoskeletons in the future. In the near future, robots will completely replace manual workers in developed countries. Electric cars are environmentally friendly.								
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	Assessment of the debate	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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