



## Subject card

Subject name and code	Team Project, PG_00033399						
Field of study	Automation, Robotics and Control Systems						
Date of commencement of studies	February 2023		Academic year of realisation of subject		2023/2024		
Education level	second-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	1		Language of instruction		Polish		
Semester of study	2		ECTS credits		4.0		
Learning profile	general academic profile		Assessment form		assessment		
Conducting unit	Department of Control Engineering -> Faculty of Electrical and Control Engineering						
Name and surname of lecturer (lecturers)	Subject supervisor		prof. dr hab. inż. Roman Śmierzchalski				
	Teachers		prof. dr hab. inż. Roman Śmierzchalski				
Lesson types and methods of instruction	Lesson type	Lecture	Tutorial	Laboratory	Project	Seminar	SUM
	Number of study hours	0.0	0.0	0.0	60.0	0.0	60
	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	60		15.0		25.0	100
Subject objectives	Student develops a project in the field of automation and robotics. Uses the software and hardware necessary to complete the project, catalogs for equipment selection. It combines knowledge from different areas. Accept work in the group.						
Learning outcomes	Course outcome		Subject outcome		Method of verification		
	K7_W14		The student analyses, models and describes the operation of real control objects and designs and implements advanced control algorithms in industrial systems.		[SW2] Assessment of knowledge contained in presentation		
	K7_U13		The student knows and understands the principles of teamwork, raising professional, personal and social competences, is aware of the responsibility for his or her own work and in a team, has the ability to present the results of task implementation.		[SU5] Assessment of ability to present the results of task		
	K7_U02		The student, working alone or in a teamwork, designs control systems, using dedicated techniques, estimates the scope and time needed to complete the project.		[SU1] Assessment of task fulfilment		
Subject contents	Solving the problem of automation and / or robotics. Depending on your task is to develop control algorithms, design and implementation of the selected system automation and robotics, construction and solving technical issues with automation and robotics, control systems design and controls, including alarm systems and security.						
Prerequisites and co-requisites							
Assessment methods and criteria	Subject passing criteria		Passing threshold		Percentage of the final grade		
	project evaluation		60.0%		100.0%		
Recommended reading	Basic literature		Literature given by lecturer design, adapted to the subject matter.				
	Supplementary literature		Literature given by lecturer design				
	eResources addresses		Adresy na platformie eNauczanie:				

Example issues/ example questions/ tasks being completed	The current implementation of the project and the implementation phase. The final presentation of the project.
Work placement	Not applicable