

Subject card

Subject name and code	Team Project, PG_00033399							
Field of study	Automation, Robotics and Control Systems							
Date of commencement of studies	February 2024		Academic year of realisation of subject			2024/2025		
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 Contro	ineering -> Faculty of Electrical and Control Engineering						
Name and surname	Subject supervisor		dr hab. inż. Michał Grochowski					
of lecturer (lecturers)	Teachers							
Lesson types and methods	Lesson type	Lecture	Tutorial	Laboratory	Projec	t	Seminar	SUM
of instruction	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 classes include plan				Self-study SUM		SUM	
	Number of study hours	60		15.0		25.0		100
Subject objectives	The aim of the course is to develop or implement a technical or computer system project jointly by a group of students.							
Learning outcomes	Course outcome K7_U13		Subject outcome			Method of verification		
			A student is able to critically and objectively assess his work and team partners. The student is able to use the acquired skills in order to solve problems they encounter.			[SU2] Assessment of ability to analyse information [SU5] Assessment of ability to present the results of task [SU4] Assessment of ability to use methods and tools		
	K7_U02		a group in order to achieve a			[SU1] Assessment of task fulfilment [SU5] Assessment of ability to present the results of task		
	K7_W02		knowledge of computer science to develop stable and effective			[SW2] Assessment of knowledge contained in presentation [SW1] Assessment of factual knowledge		
Subject contents	Within the course, students jointly carry out a project task which may result in a physical device, a mathematical model, a control or decision making system.							
Prerequisites and co-requisites	no applied							
Assessment methods and criteria	Subject passing criteria		Passing threshold			Percentage of the final grade		
	Timeliness and method of project implementation		50.0%			100.0%		

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Recommended reading	Basic literature	1. Byrski W. (2007). Obserwacja i sterowanie w systemach dynamicznych. Uczelniane Wydawnictwa Naukowo Dydaktyczne Akademii Górniczo Hutniczej, Kraków. 2. Grega W. (2004). Metody i algorytmy sterowania cyfrowego w układach scentralizowanych i rozproszonych. Uczelniane Wydawnictwa Naukowo Dydaktyczne Akademii Górniczo Hutniczej, Kraków. 3. Holejko D., Kościelny W.J. (2012). Automatyka procesów ciągłych. Oficyna Wydawnicza Politechniki Warszawskiej, Warszawa. 4. Tatjewski T. (2016). Sterowanie zaawansowane obiektów przemysłowych. Wydanie drugie zmienione. Akademicka Oficyna Wydawnicza EXIT, Warszawa. 5. Korbicz Józef, Kościelny Jan M. Modelowanie, diagnostyka i sterowanie nadrzedne procesami. Wydawnictwo Naukowe PWN, 2020.			
	Supplementary literature	A. Giuseppe Bonaccorso. Igorytmy uczenia maszynowego.			
	eResources addresses	Zaawansowane techniki implementacji. Helion Adresy na platformie eNauczanie:			
Example issues/ example questions/ tasks being completed	3D crane control				
Work placement	Not applicable				

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