



Subject card

Subject name and code	Team Project, PG_00021232						
Field of study	Automation, Robotics and Control Systems						
Date of commencement of studies	October 2023	Academic year of realisation of subject	2025/2026				
Education level	first-cycle studies	Subject group					
Mode of study	Full-time studies	Mode of delivery	at the university				
Year of study	3	Language of instruction	Polish				
Semester of study	6	ECTS credits	8.0				
Learning profile	general academic profile	Assessment form	assessment				
Conducting unit	Department of Power Electronics and Electrical Machines -> Faculty of Electrical and Control Engineering -> Faculties of Gdańsk University of Technology						
Name and surname of lecturer (lecturers)	Subject supervisor	dr inż. Ireneusz Mosoń					
	Teachers	dr hab. inż. Piotr Musznicki mgr inż. Viola Gierszewska dr inż. Andrzej Augusiak dr inż. Filip Kutt dr inż. Tomasz Rutkowski					
Lesson types	Lesson type	Lecture	Tutorial	Laboratory	Project	Seminar	SUM
	Number of study hours	0.0	0.0	0.0	120.0	0.0	120
	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	120	10.0	70.0	200		
Subject objectives	The aim of the course is to prepare team projects together with employers and research teams composed of University employees. The projects can be used to prepare engineering diploma theses.						

Learning outcomes	Course outcome	Subject outcome	Method of verification
	[K6_W07] has basic knowledge related to control and automation systems	The student describes modern solutions of control and automation systems and the principles of their operation.	[SW3] Assessment of knowledge contained in written work and projects
	[K6_W06] knows the structure of computers and microprocessors and the tasks of operating systems, has basic knowledge of the basics of computer software, drivers, microprocessor technology, design of simple algorithms and the operation of information networks	The student presents the advantages and disadvantages of individual structures of microprocessor systems, their programming and data transmission through communication networks.	[SW3] Assessment of knowledge contained in written work and projects
	[K6_W11] knows the hazards arising from devices, installations, systems and technical systems, basic principles of occupational health and safety, taking into account the role of control and security systems in controlling automation and robotics facilities	The student knows the applicable regulations to ensure safety and defines the control and security systems of facilities. The student distinguishes the requirements of the Machinery Directive, including the categories of emergency stop, redundancy and diversification in engine power control systems.	[SW1] Assessment of factual knowledge
	[K6_K05] can think and act in an entrepreneurial way	After receiving a practical engineering task, the student begins to organize a team of contractors, assigns them roles and develops a schedule and accounts for the progress of work.	[SK5] Assessment of ability to solve problems that arise in practice
[K6_U04] has the ability to self-educate, among other things, in order to improve professional qualifications	He provides the basics for acquiring current knowledge and regulations in the field of industrial electrical engineering. Knows how to prepare for exams for qualifications to perform independent functions in construction.	[SU2] Assessment of ability to analyse information	
Subject contents	<p>Course content – project</p> <p>Team execution of a selected project in the field of automation, robotics and control systems, and electrical engineering. Cooperation with project teams from other fields/faculties.</p>		
Prerequisites and co-requisites			
Assessment methods and criteria	Subject passing criteria	Passing threshold	Percentage of the final grade
	Project	100.0%	100.0%
Recommended reading	Basic literature	1. Self-selection of literature appropriate to the topic of the selected project.	
	Supplementary literature	1. Grzybowski P.P., Sawicki K.: Pisanie prac i sztuka ich prezentacji. Oficyna wydawnicza "Impuls". Kraków 2010. 2. Wojciechowska R.: Przewodnik metodyczny pisanie pracy dyplomowej. Wydawnictwo Difin. 2010. 3. Wolański A.: Edycja tekstów. Praktyczny poradnik. Wydawnictwo PWN. Warszawa 2008.	
	eResources addresses		

Example issues/ example questions/ tasks being completed	<ol style="list-style-type: none">1. Development and launch of a master controller to manage the operation of the BMW station in the LINTE² Laboratory.2. Robot for automatic reading of analog measuring instruments.3. eGokart - dedicated drive system.4. Design and validation of mission supervision systems for autonomous multi-domain UxV platforms.
Practical activities within the subject	Not applicable

Document generated electronically. Does not require a seal or signature.