



Subject card

Subject name and code	Team Project, PG_00021232						
Field of study	Electrical Engineering						
Date of commencement of studies	October 2022		Academic year of realisation of subject		2024/2025		
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						
Name and surname of lecturer (lecturers)	Subject supervisor		dr inż. Ireneusz Mosoń				
	Teachers		dr hab. inż. Marek Turzyński dr inż. Filip Wilczyński dr inż. Andrzej Augusiak dr hab. inż. Dariusz Karkosiński dr hab. inż. Piotr Musznicki				
Lesson types and methods of instruction	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_U09	The student knows electrical power systems and arrangements and is able to select electrical power equipment for various operating conditions.	[SU4] Assessment of ability to use methods and tools [SU3] Assessment of ability to use knowledge gained from the subject [SU2] Assessment of ability to analyse information [SU1] Assessment of task fulfilment
	K6_W10	The student is able to design electrical engineering systems and has knowledge of the principles of rational use of electrical energy in various types of electrical systems and their applications.	[SW3] Assessment of knowledge contained in written work and projects [SW1] Assessment of factual knowledge
	K6_K05	The student knows and applies occupational health and safety regulations, in particular those related to the use of electrical devices.	[SK5] Assessment of ability to solve problems that arise in practice [SK3] Assessment of ability to organize work
	K6_K01	The student is aware of and understands the need for continuous education and self-improvement in the scope of the profession performed. Can work individually and in a group. Understands the importance of appropriate division of roles and tasks among group members and the role of management during project work. The student has knowledge allowing for the development of patterns of proper conduct in the work environment. Knows the possibilities of further education.	[SK5] Assessment of ability to solve problems that arise in practice [SK3] Assessment of ability to organize work [SK2] Assessment of progress of work [SK1] Assessment of group work skills
Subject contents	Team implementation of a selected project in the field of electrical engineering, automation, robotics and control systems. Cooperation with project teams from other fields/faculties.		
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	Adresy na platformie eNauczanie:	

Example issues/ example questions/ tasks being completed	<p>1. AREX BAT-01 energy storage controller with remote communication functions, storage management and cooperation with a photovoltaic power plant.</p> <p>2. Implementation of remote communication with devices in the photovoltaic installation in the building at ul. Sobieskiego 7 in order to read selected parameters in the SCADA system.</p> <p>3. Design and assembly of a power supply and control switchboard with an innovative 5-phase inverter for a laboratory stand with a 5-phase generator.</p> <p>4. Induction stove.</p> <p>5. Power electronics AC/AC converter with a wide range of output voltage parameter adjustment options.</p> <p>6. Laboratory stand with SEW Eurodrive converter drive.</p>
Work placement	Not applicable

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