GDAŃSK UNIVERSITY OF TECHNOLOGY

Subject card

Subject name and code	Team Project, PG_00021232		
Field of study	Electrical Engineering		
Date of commencement of studies	October 2021	Academic year of realisation of subject	2023/2024
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 inż. Andrzej Augusiak dr hab. inż. Piotr Musznicki dr inż. Filip Kutt dr inż. Łukasz Sienkiewicz dr inż. Roland Ryndzionek	

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 diploma theses.

Learning outcomes

Course outcome	Subject outcome	Method of verification
K6_K01	The student is aware and understands the need for continuous education and self-improvement in the field of his/her profession. Is able to work individually and in a group. Understands the importance of appropriate division of roles and tasks among group members and the role of management when working on a project. The student has knowledge enabling the development of models of proper behavior in the work environment. Knows the possibilities of further education.	[SK1] Assessment of group work skills [SK2] Assessment of progress of work [SK3] Assessment of ability to organize work [SK5] Assessment of ability to solve problems that arise in practice
K6_U09	The student knows power systems and circuits and is able to select power equipment for various operating conditions.	[SU2] Assessment of ability to analyse information [SU3] Assessment of ability to use knowledge gained from the subject [SU4] Assessment of ability to use methods and tools [SU1] Assessment of task fulfilment
K6_W10	The student is able to design electrical systems and has knowledge of the principles of rational use of electric energy in various types of electrical systems and their applications.	[SW1] Assessment of factual knowledge [SW3] Assessment of knowledge contained in written work and projects
K6_K05	The student knows and applies occupational health and safety rules, in particular those related to the use of electrical equipment.	[SK5] Assessment of ability to solve problems that arise in practice [SK3] Assessment of ability to organize work

Subject contents

Team implementation of a selected project in the field of electrical engineering and automation. Cooperation with project teams from other 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 pisania pracy dyplomowej. Wydawnictwo Difin. 2010. 3. Wolański A.: Edycja tekstów. Praktyczny poradnik. Wydawnictwo PWN. Warszawa 2008.
eResources addresses	Adresy na platformie eNauczanie: PROJEKT ZESPOŁOWY [IM][ET][2023/24] - Moodle ID: 36061 https://enauczanie.pg.edu.pl/moodle/course/view.php?id=36061

Example issues/ example questions/ tasks being completed	1. PLC software for managing the Distribution Hybrid Transformer in the LINTE^2 Laboratory. 2. Construction and launch of a new Automatic Reserve Switching (SZR) controller in the LINTE^2 Laboratory power supply station. 3. Energy and communication adaptation of an energy storage tank with a rated capacity of 24kWh for operation in the LINTE^2 Laboratory research installation. 4. Design and construction of a universal wheelchair attachment.
Work placement	Not applicable