



Subject card

Subject name and code	Electrical equipment and installations, PG_00059108													
Field of study	Environmental Engineering													
Date of commencement of studies	October 2023	Academic year of realisation of subject		2025/2026										
Education level	first-cycle studies		Subject group		Obligatory subject group in the field of study									
Mode of study	Part-time studies		Mode of delivery		at the university									
Year of study	3		Language of instruction		Polish									
Semester of study	6		ECTS credits		1.0									
Learning profile	general academic profile		Assessment form		assessment									
Conducting unit	Partment of Metrology and Information Systems -> Faculty of Electrical and Control Engineering -> Faculties of Gdańsk University of Technology													
Name and surname of lecturer (lecturers)	Subject supervisor		dr inż. Ariel Dzwonkowski											
	Teachers													
Lesson types	Lesson type	Lecture	Tutorial	Laboratory	Project	Seminar	SUM							
	Number of study hours	15.0	0.0	0.0	0.0	0.0	15							
	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	15		0.0		15.0	30							
Subject objectives	The aim of the course is to provide students with basic knowledge of electrical devices and installations.													
Learning outcomes	Course outcome		Subject outcome			Method of verification								
	[K6_U01] has the ability to self-education, can obtain information from literature, databases and other sources, uses information technology, Internet resources; can integrate the obtained information, make their interpretation, as well as draw conclusions and formulate and justify opinions		Student classifies and distinguishes between DC and AC machines. The student defines the means of basic and additional protection against electric shock.			[SU3] Assessment of ability to use knowledge gained from the subject								
Subject contents	[K6_W11] has elementary knowledge of electrical devices and installations as well as basics of control and automation													
	The student defines and classifies the basic concepts of electrical engineering. Student solves simple DC and AC circuits.													
Prerequisites and co-requisites	[SW1] Assessment of factual knowledge													
Basic knowledge of physics.														

Assessment methods and criteria	Subject passing criteria	Passing threshold	Percentage of the final grade		
	Lecture - written tests.	60.0%	100.0%		
Recommended reading	Basic literature	1. Miedziński B.: Elektrotechnika. Podstawy i instalacje elektryczne. Warszawa: PWN 2000.  2. Orlik W.: Egzamin kwalifikacyjny elektryka w pytaniach i odpowiedziach. Wydawnictwo KaBe 2006.			
	Supplementary literature	1. S. Bolkowski Teoria obwodów elektrycznych, WNT 2007.  2. M. Krakowski Elektrotechnika teoretyczna, PWN.			
	eResources addresses				
Example issues/ example questions/ tasks being completed	1. What is conductance?  2. What is impedance?  3. Introduce Ohm's law.  4. Discuss the characteristics of a separately excited DC motor.  5. Describe the construction of the ring electrical motor.  6. How does a residual current device work?  7. Present the layout of the TT network.  8. What is the additional protection against electric shock in LV networks?				
Practical activites within the subject	Not applicable				

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