

。 GDAŃSK UNIVERSITY OF TECHNOLOGY

Subject card

Subject name and code	, PG_00062079								
Field of study	Civil Engineering								
Date of commencement of studies	October 2022		Academic year of realisation of subject			2023/	2023/2024		
Education level	first-cycle studies		Subject group						
Mode of study	Part-time studies		Mode of delivery			at the	at the university		
Year of study	2		Language	of instructio	n	Polish	Polish		
Semester of study	3		ECTS credits			2.0	2.0		
Learning profile	general academic profile		Assessment form			assessment			
Conducting unit	Department Of Electrified Transportation -> Faculty Of Electrical And Control Engineering -> Wydziały Politechniki Gdańskiej								
Name and surname of lecturer (lecturers)	Subject supervisor	dr hab. inż. Ja	acek Skibicki						
	Teachers		dr inż. Izabela Prażuch dr hab. inż. Jacek Skibicki						
Lesson types and methods of instruction	Lesson type	Lecture	Tutorial	Laboratory	Project		Seminar	SUM	
	Number of study hours	10.0	5.0	0.0	0.0		0.0	15	
	E-learning hours inclu	uded: 0.0		1		-		-	
Learning activity and number of study hours	Learning activity	Participation in classes includ				Self-study SU		SUM	
	Number of study hours	15		0.0				15	
Subject objectives	The main purpose of the subject is to become familiar with the principles of using electrical installations and the basics of their design. Information on the construction of electrical installations, their types, protections, electric shock protection, etc. will be provided. In addition, students will learn the methods of energy transmission in the power system and how to produce it.								
Learning outcomes	Course out	Sub			Method of verification				
	(including drawings, graphic		The student is able to design elements of the electrical installation system in a residential building based on the assumed power of electrical loads.			[SU1] Assessment of task fulfilment			
	[K6_W03] Demonstrate knowledge and understanding of the processes, established standards and design methods in the civil engineering subject area and of their limitations.		The student is able to recognize the elements of the electrical installation, assign devices to particular protection classes, and is able to determine the conditions for conducting the electrical installation in the room.			[SW1] Assessment of factual knowledge			
	[K6_U03] Design engineering objects and details, processes and engineering systems by applying appropriate standards and methods of design.		The student is able to select elements of the electrical installation in a residential building and the power supply installation.			[SU1] Assessment of task fulfilment			
Subject contents	The concept of electrical installation. Construction of domestic and industrial installations. Electricity receivers. Overcurrent protection. Electric shock protection. Electrical installation in industry. Electricity transmission, overhead and cable lines. Electricity generation, conventional, nuclear, hydro, wind, solar and micro power plants. Prosument installations.								
Prerequisites and co-requisites									
Assessment methods and criteria	Subject passing criteria		Passing threshold			Per	Percentage of the final grade		
	Lecture final test		-			60.0%			
						00.070			

Recommended reading	Basic literature	Musiał. E.: Instalacje i urządzenia elektroenergetyczne. Warszawa. WSiP. Wiatr J., Orzechowski M.: Poradnik projektanta elektryka. Warszawa. Medium. Czapp S. Ochrona przeciwporażeniowa w sieciach i instalacjach niskiego napięcia. Warszawa PWN			
	Supplementary literature	Niestępski S, Parol M., Pasternakiewicz J., Wiśniewski T.: Instalacje elektryczne, budowa, projektowanie i eksploatacja. Warszawa OWPW. Lichnowski J.: Urządzenia elektryczne na placu budowy. Warszawa. Arkady.			
	eResources addresses	Adresy na platformie eNauczanie: Instalacje Budowlane Elektryczne [Niestacjonarne][WILiŚ][2023/24] - Moodle ID: 33222 https://enauczanie.pg.edu.pl/moodle/course/view.php?id=33222			
Example issues/ example questions/ tasks being completed	Selecting the cross section of electrical wiring. Selection of short-circuit protection.				
Work placement	Not applicable				

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