

Subject card

Cubicat name and add	Building Installations I, PG_00062073							
Subject name and code								
Field of study	Civil Engineering							
Date of commencement of studies	October 2023		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	2		Language of instruction			Polish		
Semester of study	3		ECTS credits			1.0		
Learning profile	general academic profile		Assessment form			assessment		
Conducting unit	Department of Electrical Engineering of Transport -> Faculty of Electrical and Control Engineering					ering		
Name and surname of lecturer (lecturers)	Subject supervisor		dr hab. inż. Jacek Skibicki					
	Teachers		dr inż. Izabela Prażuch					
		dr hab. inż. Jacek Skibicki						
Lesson types and methods of instruction	Lesson type	Lecture	Tutorial	Laboratory	Projec	t :t	Seminar	SUM
	Number of study hours	7.0	8.0	0.0	0.0		0.0	15
	E-learning hours inclu	uded: 0.0		1			1	
Learning activity and number of study hours	Learning activity	Participation in classes include plan		Participation consultation h			tudy	SUM
	Number of study hours	15		0.0		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 outcome		Subj		Method of verification			
	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		
			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		
	technical drawing for preparing		The student is able to recognize and correctly interpret the elements and assumptions of the construction of an electrical installation in a residential building.			[SW1] Assessment of factual knowledge		
			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.							

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Prerequisites and co-requisites						
Assessment methods and criteria	Subject passing criteria	Passing threshold	Percentage of the final grade			
	Lecture final test	60.0%	60.0%			
	Colloquium on exercises	60.0%	40.0%			
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 I 2024/25 - Moodle ID: 42105 https://enauczanie.pg.edu.pl/moodle/course/view.php?id=42105				
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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