

Subject card

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Subject name and code	Electrical Power Equipment and Substations, PG_00038354								
Field of study	URZĄDZENIA I STACJE ELEKTROENERGETYCZNE								
Date of commencement of studies	October 2025		Academic year of realisation of subject			2025/2026			
Education level	second-cycle studies		Subject group						
Mode of study	Part-time studies		Mode of delivery			at the university			
Year of study	1		Language of instruction			Polish			
Semester of study	2		ECTS credits			1.0			
Learning profile	general academic profile		Assessment form			assessment			
Conducting unit	Department of Electrical Power Engineering -> Faculty of Electrical and Control Engineering -> Faculties of Gdańsk University of Technology								
Name and surname	Subject supervisor		prof. dr hab. inż. Zbigniew Lubośny						
of lecturer (lecturers)	Teachers								
Lesson types	Lesson type	Lecture	Tutorial	Laboratory Project		t	Seminar	SUM	
	Number of study hours	10.0	0.0	0.0	0.0		0.0	10	
	E-learning hours included: 0.0								
Learning activity and number of study hours	Learning activity	Participation in classes include plan		Participation in consultation hours		Self-study		SUM	
	Number of study hours	10		2.0		13.0		25	
Subject objectives	Acquiring detailed knowledge in the field of power station construction and principles of selecting equipment and station equipment.								
Learning outcomes	Course outcome		Subject outcome			Method of verification			
	[K7_K04] correctly identifies and resolves dilemmas associated with the exercise of the profession, in particular relating to responsibility for his own safety and the safety of others		Solves problems relating to the safety of persons and property that arise in practice.			[SK5] Ocena umiejętności rozwiązywania problemów występujących w praktyce			
	[K7_U10] is able to calculate short- circuit currents, select substation equipment including power system automation protection automatics		Uses mathematical methods to solve problems covered by the course.			[SU3] Ocena umiejętności wykorzystania wiedzy uzyskanej w ramach przedmiotu			
	[K7_W11] has detailed knowledge of substation construction, is familiar with the principles of selecting substation facilities and equipment, is familiar with technologies high voltage		Has structured knowledge of the construction of power stations.			[SW1] Ocena wiedzy faktograficznej			
	[K7_W05] has detailed knowledge of the regulatory processes in the electricity system electricity system, electricity safety and electricity safety automation		Analyses and interprets processes occurring in the power system.			[SW1] Ocena wiedzy faktograficznej			
Subject contents	Course content – lecture Power stations in the system, classification, components of power stations, station rail systems, features of rail systems, selection of rigid and flexible busbars, current and voltage transformers, selection of current and voltage transformers.								
Prerequisites and co-requisites	Electric power systems								
Assessment methods	Subject passin	Passing threshold			Percentage of the final grade				
and criteria	Test	60.0%			100.0%				

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Recommended reading	Basic literature	H. Markiewicz, Urządzenia elektroenergetyczne, WNT Warszawa 2006.			
		Poradnik inżyniera elektryka. WNT Warszawa 2011 (tom 3), 2007 (tom 2).			
	Supplementary literature	E. Musiał, Instalacje i urządzenia elektroenergetyczne, WSiP Warszawa1998.			
		A. Kanicki, J. Kozłowski: Stacje elektroenergetyczne. Politechnika Łódzka, Łódź 2004.			
	eResources addresses				
Example issues/ example questions/ tasks being completed	Select current and voltage, measurement and protection transformers at the MV substation.				
Practical activites within the subject	Not applicable				

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