

## Subject card

	Florida I Down Foot and Orbital for a DO 0000051								
Subject name and code	Electrical Power Equipment and Substations, PG_00038354								
Field of study	Electrical Engineering								
Date of commencement of studies	October 2024		Academic year of realisation of subject			2024/2025			
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 Electri	ineering -> Faculty of Electrical and Control Engineering							
Name and surname	Subject supervisor		prof. dr hab. inż. Zbigniew Lubośny						
of lecturer (lecturers)	Teachers prof. dr hab. inż. Zbigniev			nż. Zbigniew L	Lubośny				
Lesson types and methods of instruction	Lesson type	Lecture	Tutorial	Laboratory	y Project		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 didactic lasses included in study lan		Participation in consultation hours		udy	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_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] Assessment of factual knowledge			
	[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] Assessment of factual knowledge			
	[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] Assessment of ability to use knowledge gained from the subject			
[K7_K04] correctly resolves dilemmas with the exercise of profession, in partices responsibility for heard the safety of control of the safety of		ssociated he llar relating to own safety	Solves problems relating to the safety of persons and property that arise in practice.			[SK5] Assessment of ability to solve problems that arise in practice			
Subject contents	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	, ,		Passing threshold			Percentage of the final grade			
and criteria	Test		60.0%	60.0%			, o		

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	Adresy na platformie eNauczanie:		
Example issues/ example questions/ tasks being completed	Select current and voltage, measurement and protection transformers at the MV substation.			
Work placement	Not applicable			

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