

## Subject card

Subject name and code	Wind Power Plants, PG_00042323							
Field of study	Electrical Engineering							
Date of commencement of studies	October 2023		Academic year of realisation of subject			2023/2024		
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			2.0		
Learning profile	general academic profile		Assessment form			assessment		
Conducting unit	Department of Electrical Power Engineering -> Faculty of Electrical and Control Engineering							
Name and surname	Subject supervisor prof. dr hab. inż. Zbigniew Lubośny							
of lecturer (lecturers)	Teachers							
Lesson types and methods of instruction	Lesson type	Lecture	Tutorial	Laboratory	Project	t	Seminar	SUM
	Number of study hours	10.0	0.0	0.0	0.0	0.0 0.0 10		10
	E-learning hours incl			<u> </u>				
Learning activity and number of study hours	Learning activity	Participation in classes include plan		Participation in consultation hours		Self-study		SUM
	Number of study 10 hours			6.0		34.0		50
Subject objectives	Get knowledge related to wind energy plants and cooperation of the plants with electric power systems,							
Learning outcomes	Course outcome		Subject outcome			Method of verification		
	K7_W01		Has knowledge related to mathematics, related to numerical methods for solving electrotechnical problems.			[SW1] Assessment of factual knowledge		
	K7_U03		Can retrieve knowledge form various sources of information. Can define directions of future selflearning.			[SU4] Assessment of ability to use methods and tools		
	K7_U02		Can prepare and present presentation related to technical issues.			[SU5] Assessment of ability to present the results of task		
	K7_W02		Has knowledge related to measurement methods used in electric grid.			[SW1] Assessment of factual knowledge		
Subject contents	Wind energy - development, resources. Calculation of energy resources in a given location for a given type of wind farm. Wind farm constructions. Wind farms. Ways of the wind farms connection to the power system. Control of the power plant and wind farms.							
Prerequisites and co-requisites	No needed							
Assessment methods	Subject passing criteria		Passing threshold			Percentage of the final grade		
and criteria	Coloquium Coloquium		60.0%			100.0%		
Recommended reading	Basic literature		Lubośny Z.: Farmy wiatrowe w systemie elektroenergetycznym. WNT Warszawa 2009. 2. A. Flaga: Inżynieria wiatrowa. Podstawy i zastosowania. Wydawnictwo Arkady 2008. 3. T. Boczar: Wykorzystanie energii wiatru. Wydawnictwo PAK, Warszawa 2010.					
	Supplementary literature		Lubośny Z.: Elektrownie wiatrowe w systemie elektroenergetycznym. WNT Warszawa 2006. 2. Poradnik inżyniera elektryka. WNT Warszawa 2011 (tom 3), 2007 (tom 2).					m 3), 2007
	eResources addresses		Adresy na platformie eNauczanie:					

Data wydruku: 20.05.2024 03:46 Strona 1 z 2

Example issues/ example questions/ tasks being completed	Calculate energy produced by a given wind turbine during a year.
Work placement	Not applicable

Data wydruku: 20.05.2024 03:46 Strona 2 z 2