

Subject card

Subject name and code	Markets of energy, PG_00055957								
Field of study	Power Engineering, Power Engineering								
Date of commencement of studies	October 2021		Academic year of realisation of subject			2023/2024			
Education level	first-cycle studies		Subject group			Optional subject group Subject group related to scientific research in the field of study			
Mode of study	Full-time studies		Mode of delivery			at the university			
Year of study	3		Language of instruction			Polish			
Semester of study	5		ECTS credits			2.0			
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. Waldemar Kamrat						
of lecturer (lecturers)	Teachers		dr inż. Wiktoria Stahl						
	dr inż. Izabela Prażuch								
Lesson types and methods of instruction	Lesson type	Lecture	Tutorial	Laboratory	Projec	t	Seminar	SUM	
	Number of study hours	15.0	15.0	0.0	0.0		0.0	30	
	E-learning hours included: 0.0								
Learning activity and number of study hours	Learning activity	Participation in didactic classes included in study plan		Participation in consultation hours		Self-study		SUM	
	Number of study hours	30	30		2.0			50	
Subject objectives Learning outcomes	The aim of the course is to present students with issues concerning the most important problems related to the creation and functioning of energy markets Energy markets - principles, essence, directions of development. Management of energy markets. Outlays and costs of energy markets development. Energy markets in terms of fuel base and energy demand								
Learning outcomes	Course outcome [K6_W08] has basic knowledge in		Subject outcome The student knows and		Method of verification [SW1] Assessment of factual				
	the field of intellectual property protection and patent law, knows and understands the basic processes of energy production and use, knows and understands the principles of modern heating and power systems		understands the basic processes of energy production and use, the principles of operation of modern heating and power systems			knowledge [SW3] Assessment of knowledge contained in written work and projects			
	[K6_W07] knows the basics of economic calculus in the energy sector; knows the legal, organizational and economic principles of the functioning of energy markets, knows the basic principles of management and running a business		The student is able to present the principles of operation of energy markets			[SW3] Assessment of knowledge contained in written work and projects [SW1] Assessment of factual knowledge			

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Subject contents	Energy markets - principles, essence, directions of development.							
	Management of energy markets.							
	Outlays and costs of energy markets development.							
	Energy markets in terms of fuel base and energy demand							
Prerequisites and co-requisites								
Assessment methods and criteria	Subject passing criteria	Passing threshold	Percentage of the final grade					
		60.0%	100.0%					
Recommended reading	Basic literature	1.Energy Markets edit. Wł.Mielczarski. 2.Energy economics edit. W. Kamrat .PWN ,2022						
	Supplementary literature	Selected problems of decision making madelling in power engineering.						
		SETA , Elsevier , 2021						
	eResources addresses	Adresy na platformie eNauczanie: RYNEK ENERGII [2023/24] - Moodle ID: 31953 https://enauczanie.pg.edu.pl/moodle/course/view.php?id=31953						
Example issues/ example questions/ tasks being completed								
Work placement	Not applicable							

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