

Subject card

Subject name and code	Fundamentals of energy balances, PG_00055979									
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	6		ECTS credits			2.0				
Learning profile	general academic profile		Assessment form			assessment				
Conducting unit										
Name and surname	Subject supervisor									
of lecturer (lecturers)	Teachers									
Lesson types and methods	Lesson type	Lecture	Tutorial	Laboratory	poratory Project		Seminar	SUM		
of instruction	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 classes include plan		Participation in consultation hours		Self-study		SUM		
	Number of study hours	30		2.0		18.0		50		
Subject objectives										
Learning outcomes	Course outcome Subject outcome Method of verification					erification				
	[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 [K6 W06] knows classic and									
	developmental energy technologies, rules for the selection and operation of heat and energy devices and installations, basic principles of energy systems operation, basic issues regarding the reliability of energy devices and diagnostics, environmental effects of energy technologies used, methods of using renewable energy sources [K6_U08] can design the basic parameters of the selected technology related to energy conversion and select auxiliary devices and evaluate the project in terms of technical and economic [K6_U05] is able to formulate and carry out energy balances in devices and energy systems, also perform an energy audit of a									
Subject contents	simple building object perform a preliminary analysis of a planned investment									
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Prerequisites and co-requisites			
Assessment methods and criteria	Subject passing criteria	Passing threshold	Percentage of the final grade
		0.0%	0.0%
Recommended reading	Basic literature		
	Supplementary literature		
	eResources addresses		
Example issues/ example questions/ tasks being completed			
Work placement	Not applicable		

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