



## Subject card

Subject name and code	Accountancy in Power Engineering Industry, PG_00042201						
Field of study	Power Engineering, Power Engineering, Power Engineering, Power Engineering, Power Engineering						
Date of commencement of studies	October 2020		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	4		Language of instruction		Polish		
Semester of study	7		ECTS credits		2.0		
Learning profile	general academic profile		Assessment form		assessment		
Conducting unit	Faculty of Electrical and Control Engineering						
Name and surname of lecturer (lecturers)	Subject supervisor		dr inż. Marcin Jaskólski				
	Teachers		dr inż. Izabela Prażuch				
			dr inż. Wiktoria Stahl				
Lesson types and methods of instruction	Lesson type	Lecture	Tutorial	Laboratory	Project	Seminar	SUM
	Number of study hours	15.0	0.0	0.0	15.0	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		3.0		17.0	50
Subject objectives	The goal of this course is to gain the knowledge on the profitability assessment of energy investments.						
Learning outcomes	Course outcome		Subject outcome		Method of verification		
	K6_W07		Student is capable of determining annual electricity production from power plant and CHP plant, and calculating the costs of production. Knows how to calculate fuel consumption to electricity production. Is able to perform economic analysis of the project of power plant.		[SW3] Assessment of knowledge contained in written work and projects		
	K6_U05		Student is capable of determining annual electricity production from power plant and CHP plant, and calculating the costs of production. Knows how to calculate fuel consumption to electricity production. Is able to perform economic analysis of the project of power plant.		[SU1] Assessment of task fulfilment		
Subject contents	Money and the change of its value over time. Discounting. Capital recovery factor (CRF). Bank loans inbusiness activity. Methods of amortisation (depreciation). Annual cost calculation in power engineering.Methods of evaluation of economic viability of investment projects in power engineering. Preliminary analysisof economic viability of investment for selected energy technology.						
Prerequisites and co-requisites							

Assessment methods and criteria	Subject passing criteria	Passing threshold	Percentage of the final grade
	Evaluation test	60.0%	50.0%
	Preliminary analysis of investment project in power engineering	60.0%	50.0%
Recommended reading	Basic literature	Marecki J.: Economics in Power Engineering. Electrical Engineer Handbook vol.3 Kamrat W.: Investing effectiveness evaluation methods in electric power engineering. Gdansk University of Technology Publishing. Gdansk 2004 Sobczyk M.: Financial mathematics. Publishing Agency. Warsaw 1995	
	Supplementary literature	Warnecke H.J., Bullinger H.J., Hichert R., Voegelé A.: Cost calculations for engineers. WNT. Warsaw 1993. Siegel J.G., Shim J.K., Hartman S. W.: Financial guide. PWN, Warsaw 1995.	
	eResources addresses	Adresy na platformie eNauczanie:	
Example issues/ example questions/ tasks being completed	Assess the profitability of coal-fired power plant. Calculate NPV, IRR and DPBP.		
Work placement	Not applicable		