

Subject card

Subject name and code			
Date of commencement of studies February 2024 Academic year of realisation of subject Education level second-cycle studies Mode of study Full-time studies Mode of delivery Year of study Semester of study Polish ECTS credits 1.0			
studies realisation of subject Education level second-cycle studies Subject group Mode of study Full-time studies Mode of delivery at the university Year of study 1 Language of instruction Polish Semester of study 2 ECTS credits 1.0			
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Learning profile general academic profile Assessment form assessment			
Conducting unit Department of Electrical Power Engineering -> Faculty of Electrical and Control Engineering	Department of Electrical Power Engineering -> Faculty of Electrical and Control Engineering		
Name and surname Subject supervisor dr hab. inż. Paweł Bućko			
of lecturer (lecturers) Teachers			
Lesson types and methods Lesson type Lecture Tutorial Laboratory Project Seminar	SUM		
of instructionNumber of study hours15.00.00.00.00.0	15		
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 didactic consultation hours	SUM		
Number of study hours 2.0 8.0	25		
Subject objectives Basic knowleges of technical-economics problems in power systems.			
Learning outcomes Course outcome Subject outcome Method of verif	cation		
K7_K03 The student is able to work in a group. [SK1] Assessment of skills	group work		
K7_K02 The student is able to assess the impact of energy installations on the environment. [SK5] Assessment of a solve problems that an practice			
coefficients and ratios. Economic implication of demand changes in the system. Losses in power Active and reactive power losses in power system elements. Energy losses. Methods for losses Costs of the losses. Losses minimization. Costs calculation in energy sector. Discount rate. Brie costs discounting. Investments processes. Costs of capital. Amortization possible ways of calcu Annual costs calculation. Fixed and production related costs. Costs minimization selected, typic related to energy sectors. Selected management problems in power sector.			
Prerequisites and co-requisites Brief knowledge of electrical engineering and power system			
Assessment methods Subject passing criteria Passing threshold Percentage of the	inal grade		
and criteria Midterm colloquium 50.0% 100.0%			
Energii, Warszawa 1999. 2. Poradnik inżyniera elektryka pr. zbiorowa, WNT. Wars 3. Paska J.: Ekonomika energetyki. PW, Warszawa, 200	Energii, Warszawa 1999. 2. Poradnik inżyniera elektryka pr. zbiorowa, WNT. Warszawa, 2000. 3. Paska J.: Ekonomika energetyki. PW, Warszawa, 2007.		
kosztów dla inżynierów. WNT. Warszawa 1993.	kosztów dla inżynierów. WNT. Warszawa 1993. 2. Siegel J.G., Shim J.K., Hartman S. W.: Przewodnik po finansach.		
eResources addresses Adresy na platformie eNauczanie:			

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Example issues/ example questions/ tasks being completed	Calculation of power losses in the transmission grid.
	2. Analyse of daily load change.
	3. Calculation of energy loses in the chosen transmission grid element.
Work placement	Not applicable

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