

Subject card

Electrical Engineering		9,,. 0_0000					
	Electric Power Generation Technology, PG_00038432 Electrical Engineering						
		realisation of subject		2023/2024			
first-cycle studies		Subject group					
Full-time studies		Mode of delivery		at the university			
1		Language of instruction			Polish		
2		ECTS credits			2.0		
general academic profile		Assessment form			assessment		
Department of Electrical Power Engineering -> Faculty of Electrical and Control Engineering							
Subject supervisor		dr inż. Andrzej Augusiak					
Teachers		dr inż. Andrzej Augusiak					
Lesson type	Lecture	Tutorial	Laboratory	Projec	t	Seminar	SUM
Number of study hours	30.0	0.0	0.0	0.0		0.0	30
E-learning hours inclu	ided: 0.0						
			Participation in consultation hours		Self-study		SUM
		2.0			18.0		50
Acquiring knowledge of main energy conversion technologies and their practical implementation in fundamental types of power plants.							
Course outcome		Subject outcome			Method of verification		
K6_U06		can discuss the importance of energy generation in the modern world			[SU2] Assessment of ability to analyse information		
K6_W09		is able to discuss the main technologies of electricity production and discuss their most important features, including energy efficiency			[SW1] Assessment of factual knowledge		
Types and forms of primary energy, energy conversion processes and their efficiency, chains of energy conversion processes in power plants, efficiency of power plants and its components, gross and net efficiency of power plants, thermodynamic cycles in thermal power plants, Carnot cycle and its energy conversion efficiency, means of increase of energy conversion efficiency in thermal power plants, influence of fossil fuel energy use on environment, power plants using Renewable Energy Sources, construction and principle of work in hydro- and wind power plants, nuclear power plants - construction and principle of work of PWR-type power plants, cooperation of power plants with power system							
Subject passing criteria		Passing threshold		Percentage of the final grade			
Midterm colloquium		50.0%		100.0%			
		Marecki J.: Podstawy przemian energetycznych. WNT, Warszawa 2007					
		2. Chmielniak T.: Technologie energetyczne. WNT, Warszawa 2008					
		3. Pawlik M.,	Strzelczyk F.: E	lektrow	nie. WN	NT, Warszawa	2009
eResources addresse	Uzupełniające						
		TECHNOLOGIE WYTWARZANIA ENERGII ELEKTRYCZNEJ [2023/24] - Moodle ID: 28521					
	first-cycle studies Full-time studies 1 2 general academic pro Department of Electric Subject supervisor Teachers Lesson type Number of study hours E-learning hours inclu Learning activity Number of study hours Acquiring knowledge fundamental types of Course oute K6_U06 K6_W09 Types and forms of proconversion processes efficiency of power pla conversion efficiency, of fossil fuel energy u principle of work in hy of PWR-type power p Subject passin Midterm colloquium Basic literature Supplementary literat	first-cycle studies Full-time studies 1 2 general academic profile Department of Electrical Power Enging Subject supervisor Teachers Lesson type Lecture Number of study hours E-learning hours included: 0.0 Learning activity Participation in classes including plan Number of study hours Acquiring knowledge of main energy fundamental types of power plants. Course outcome K6_U06 K6_W09 Types and forms of primary energy, conversion processes in power plant efficiency of power plants, thermody conversion efficiency, means of increof fossil fuel energy use on environm principle of work in hydro- and wind of PWR-type power plants, cooperate Subject passing criteria Midterm colloquium Basic literature	realisation first-cycle studies Full-time studies Mode of de Language of ECTS cred general academic profile Assessmer Department of Electrical Power Engineering -> Fact Subject supervisor Teachers Lesson type Lecture Number of study hours Learning hours included: 0.0 Learning activity Participation in didactic classes included in study plan Number of study hours Acquiring knowledge of main energy conversion terfundamental types of power plants. Course outcome K6_U06 Subject passing criteria Subject passing criteria Pass Midterm colloquium Supplementary literature Resources addresses Pass Pass Pass Pass Pass Pass Pas	realisation of subject first-cycle studies Subject group Full-time studies Mode of delivery Language of instruction ECTS credits general academic profile Department of Electrical Power Engineering -> Faculty of Electrica Subject supervisor Teachers dr in2. Andrzej Augusiak Lesson type Lecture Tutorial Laboratory Number of study hours E-learning hours included: 0.0 Learning activity Participation in didactic classes included in study plan Number of study hours Acquiring knowledge of main energy conversion technologies and fundamental types of power plants. Course outcome K6_U06 Can discuss the importance of energy generation in the mod world K6_W09 Is able to discuss the main technologies of electricity production and discuss their important features, including energy efficiency Types and forms of primary energy, energy conversion processes onversion processes in power plants, efficiency of power plants a efficiency of power plants, thermodynamic cycles in thermal powe conversion efficiency, means of increase of energy conversion efficiency for fossif fluel energy use on environment, power plants using Rene principle of work in hydro- and wind power plants, nuclear power of PWR-type power plants, cooperation of power plants with power Subject passing criteria Passing threshold Midterm colloquium Subject passing criteria Passing threshold Midterm colloquium 3. Pawlik M., Strzelczyk F.: E eResources addresses Uzupełniające Adresy na platformie eNauc: TECHNOLOGIE VTWARZ (2023/24) - Moodle ID: 2852	realisation of subject first-cycle studies Subject group Full-time studies Mode of delivery Language of instruction ECTS credits general academic profile Assessment form Department of Electrical Power Engineering -> Faculty of Electrical and C Subject supervisor Teachers dr in2. Andrzej Augusiak Lesson type Lecture Tutorial Laboratory Project Number of study hours E-learning hours included: 0.0 Learning activity Participation in didactic classes included in study plan Number of study hours Participation in didactic classes included in study plan Number of study hours Course outcome K6_U06 Course outcome K6_U06 Subject outcome Course outcome Subject outcome K6_U06 Subject outcome Course outcome Subject outcome Types and forms of primary energy, energy conversion processes and the conversion processes in power plants, efficiency of power plants and its certificiency of power plants, thermodynamic cycles in thermal power plants on energy efficiency. Types and forms of primary energy, energy conversion processes and the conversion of power plants, efficiency of power plants and its certificiency, means of increase of energy conversion processes and the conversion processes and the conversion processes and the conversion p	realisation of subject first-cycle studies Subject group 1	realisation of subject first-cycle studies Subject group Full-time studies Mode of delivery 1 Language of instruction 2 ECTS credits 2 20 general academic profile Assessment form Department of Electrical Power Engineering -> Faculty of Electrical and Control Engineering Subject supervisor Teachers dr in2. Andrzej Augusiak Lesson type Lecture Tutorial Laboratory Project Seminar Number of study Pours E-learning hours included: 0.0 Learning activity Participation in didactic classes included in study plan Number of study Pours Acquiring knowledge of main energy conversion technologies and their practical implementatio fundamental types of power plants. Course outcome K6_U06 Subject outcome Subject outcome Method of verice of seminar most importance of energy generation in the modern world K6_W09 Is able to discuss the main technologies of electricity production and discuss the min technologies of electricity production and discuss the main technology energy efficiency Internation world K6_W09 Is able to discuss the main technology of the seminary o

Data wydruku: 18.07.2024 08:49 Strona 1 z 2

example questions/	What is the value of energy efficiency in classic thermal plants? What parameters of the plants' technology do influence that value? Which of these parameters are of crucial importance? How can one improve that efficiency? What is the value of energy efficiency in other types of power plants (hydro, wind, nuclear)? Why?
Work placement	Not applicable

Data wydruku: 18.07.2024 08:49 Strona 2 z 2