

Subject card

Subject name and code Electrical Power Engineering, PG_00038441	ect name and code
Date of commencement of studies	
Studies Fealisation of subject Education level first-cycle studies Subject group Mode of study Full-time studies Mode of delivery at the university	-
Mode of study	
Year of study Semester of study Learning profile Gonducting unit Name and surname of lecturer (lecturers) Lesson types and methods of instruction Learning activity and number of study hours Learning activity Course outcome Course outcome Learning outcomes Learning outcomes Learning outcomes K6_W09 K6_W09 Learning study semester of study hours Learning activity and number of study hours K6_W09 Student identifies be basic laws of electrical power engineering in application to electrical power engineering in application to electrical power engineering in application to electrical power engineering in the field of short-circuit in the field of short-circuit in the field of short-circuit in analyse information and some formation and some formation and some formation analyse information analyse information and some formation and some formation and some formation and some formation analyse information and some formation and some formation analyse information and some formation and some formation and some formation and some formation analyse information and some formation and some formation and some formation and some formation analyse information and some formation and some form	ation level
Semester of study 4 ECTS credits 4.0	of study
Learning profile general academic profile Assessment form exam Conducting unit Department of Electrical Power Engineering -> Faculty of Electrical and Control Engineering Name and surname of lecturer (lecturers) Lesson types and methods of instruction Learning activity and number of study hours E-learning hours included: 0.0 Learning activity and number of study hours E-learning activity and number of study hours Course outcome Course outcome Course outcome Course outcome Subject outcome Subject outcome Subject outcome Method of verification SKA2] Assessment of progress of the power system. K6_W09 Student identifies the basic laws of electrical power engineering in application to electrical power engineering in the power system. K6_W09 Student calculates current and power flows and voltage levels in the power system, uses standards in the field of short-circuit in the field of short-circuit analyse information SUBJECT OF STAND ASSESSMENT OF ABOLD ASSE	of study
Conducting unit Department of Electrical Power Engineering -> Faculty of Electrical and Control Engineering Name and surname of lecturer (lecturers) Teachers	ester of study
Name and surname of lecturer (lecturers) Lesson types and methods of instruction Learning activity and number of study hours Learning outcomes Course outcome K6_W09 K6_U006 K6_U006 Subject supervisor Teachers Itorial Laboratory Project Seminar SUM Laboratory Project Seminar SUM Laboratory Project Seminar SUM No.0 0.0 15.0 0.0 0.0 0.0 45 Subject Seminar SUM No.0 0.0 0.0 45 Participation in didactic classes included in study plan Participation in consultation hours consultation hours Subject objectives To acquaint students with the work of the power system. Course outcome Subject outcome Method of verification in application to electrical engineering in application to electrical engineering in application to electrical power engineering K6_W09 Student identifies basic power laws. K6_U06 Student calculates current and power flows and voltage levels in the field of short-circuit in the power system, uses standards in the power system, uses standards in the field of short-circuit analyse information analyse information.	ing profile
Teachers Lesson types and methods of instruction Lesson type sand methods of instruction Lesson type Lecture Tutorial Laboratory Project Seminar SUM Number of study hours E-learning hours included: 0.0 Learning activity and number of study hours Number of study hours Learning activity Rearning activity Participation in didactic classes included in study plan Number of study hours To acquaint students with the work of the power system. Learning outcomes Course outcome Subject outcome Subject outcome Method of verification (SK2] Assessment of progress of the power system in application to electrical engineering in application to electrical power engineering in application to electrical power engineering in application to electrical engineering in applicat	ucting unit
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and number of study hours Number of study hours Number of study hours Number of study hours 45 7.0 48.0 100	
Subject objectives To acquaint students with the work of the power system.	
Course outcome Subject outcome Method of verification	
K6_K01 The student identifies the basic laws of electrical engineering in application to electrical power engineering K6_W09 Student identifies basic power laws. K6_U06 Student calculates current and power flows and voltage levels in the power system, uses standards in the field of short-circuit [SK2] Assessment of progress of work [SW1] Assessment of factual knowledge [SU4] Assessment of ability to use methods and tools [SU2] Assessment of ability to analyse information	ect objectives
Iaws of electrical engineering in application to electrical power engineering	
Knowledge	
power flows and voltage levels in the power system, uses standards in the field of short-circuit use methods and tools [SU2] Assessment of ability to analyse information	
The Basic knowledge of the power system structure, main devices being the circuit elements of generation transmission and distribution of electrical energy. The construction of electrical power engineering of overhead and cable power-lines, wires and basic devices and equipment used for building the power-line Substitute schemes of transformers and overhead and cable power-lines. Calculating the current and power distributions, losses of power, tension levels in grids of uni- and bilateral supplies and in junction grids. Structure in electrical Power engineering grids, courses of short circuit currents, the principles and methods calculating the short circuit currents during symmetrical short circuits. Eatrthings/ gruondings? in grids with isolated stellar points of the transformers.	
Prerequisites and co-requisites The basics of electrical engineering, the basics of power industry	
Assessment methods Subject passing criteria Passing threshold Percentage of the final grade	
and criteria Written exam 60.0% 60.0%	and criteria
Midterm colloquium 60.0% 40.0%	
Recommended reading Basic literature Kujszczyk Sz.: Elektroenergetyczne sieci rozdzielcze, tom I i II, Oficy Wydawnicza PW, Warszawa 2004.	mmended reading
Supplementary literature Kremens Z., Sobierajski M.: Analiza systemów elektroenergetycznych WNT Warszawa 1996 Kacejko P., Machowski J.: Zwarcia w systema elektroenergetycznych WNT Warszawa 2002	
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example questions/ tasks being completed	Calculation of load flow in electricity grids. Calculation of short-circuit currents in electrical power systems.
Work placement	Not applicable

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