STUDY MODULE DESCRIPTION FORM						
	the module/subject	trical power devices con	struction	truction 1010311371010303353		
Field of	•		Profile of study	Year /Semester		
Elect	trical Engineerin	a	(general academic, practica general academic			
	path/specialty	3	Subject offered in:	Course (compulsory, elective)		
Distribution Devices and Electrical			Polish	elective		
Cycle of	study:		Form of study (full-time,part-time)			
First-cycle studies			full-time			
No. of h	ours			No. of credits		
Lecture: - Classes: - Laboratory: -			Project/seminars:	1 2		
Status o	•	program (Basic, major, other)	(university-wide, from another field)			
Educatio		other				
Educatio	on areas and fields of sci	ence and art		ECTS distribution (number and %)		
Resp	onsible for subje	ect / lecturer:				
dr in	ż. Jerzy Janiszewski					
	il: jerzy.janiszewski@	put.poznan.pl				
	61 665 20 28					
	tryczny					
	Piotrowo 3A, 60-965 P					
Prere	quisites in term	s of knowledge, skills an	d social competencies	S:		
1	Knowledge	Basics of mathematics, physics,	electrical engineering.			
2	Skills	Ability to acquire information from in evaluative way. Ability to deal		d other sources and to analyze it and experimental tools.		
3	Social competencies	Has understanding of the need for creative and responsible activity.				
Assu	mptions and obj	ectives of the course:				
Getting	familiar with the cons	struction, operation principles and	technical requirements for typ	pical electric power devices.		
Study outcomes and reference to the educational results for a field of study						
Know	/ledge:					
1. Student has basic knowledge of the construction and operation of electric power devices regarding ergonomic, technical						
and non-technical aspects of their using as well as risks related to the operation and maintenance [K_W19++,]						
Skills: 1. Student is able to analyze applied effectiveness of solutions of the typical electric power devices construction as well as to read devices related devices and devices and devices construction as well as to						
read and develop related documentation [K_U07+, K_U09++] 2. Student is able to apply basic rules related to the construction of the application-safe devices [K_U21+]						
	Il competencies:			[·]		
	•	asic rules related to the construction	on of the application-safe dev	ices [K_K01 +]		
	,		· ·	· · ·		

Assessment methods of study outcomes

Design work:						
? Evaluation of the steps of progress and completion of an exemplary final design work or the evaluation of the effectiveness?s analysis of an existing solution of chosen construction of an electric power						
? On-line bonus for activity during each sections.						
Adding extra points for activity in discussions, especially for:						
? effectiveness of implementation of the knowledge acquired when solving a give						
? ability to cooperate in the team accomplishing in practice a specific task within the team-accomplished design.						
? remarks related to the educational materials? enhancement,						
? care and esthetic form of the works carried out individually.						
Course description						
1. Functions of the basic electric power devices and apparatus, application requirements as well as the operational and environmental risks						
2. Current paths construction in switches and electric power devices						
3. Constructions of the high-current paths and insulators in electric power switchgears.						
4. Mechanics of switches.						
5. Switch pairs and switch connections.						
6. Elements of Electric power devices? design and tests.						
Basic bibliography:						
Additional bibliography:						
Result of average student's workload						
Activity		Time (working hours)				
1. Design exercises in class		15				
2. Consultations	3					
3. Examination work presentation	3					
4. Elaboration of individual designs	15					
5. Preparation to the classes	4					
Student's workload						
Source of workload	hours	ECTS				
Total workload	40	2				
Contact hours	21	1				
Practical activities	30	1				