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		STUDY MODULE D	ESCRIPTION FORM				
Name o	of the module/subject	STODI WODOLL D	LOCKIF HON I OKW	Code			
Elec	trical Power Eng	ineering	T	1010321341010312426			
Field of	study		Profile of study (general academic, practical)	Year /Semester			
Elec	trical Engineerin	g	(brak)	2/4			
Elective path/specialty			Subject offered in: Polish	Course (compulsory, elective) obligatory			
Cycle of study:			Form of study (full-time,part-time)				
First-cycle studies			full-time				
No. of h	nours			No. of credits			
Lectu	re: 15 Classes	s: 15 Laboratory: 15	Project/seminars:	- 3			
Status	of the course in the study	program (Basic, major, other)	(university-wide, from another f	ield)			
		(brak)		(brak)			
Educati	on areas and fields of sci	ence and art		ECTS distribution (number and %)			
techr	nical sciences			3 100%			
Technical sciences				3 100%			
Resp	onsible for subj	ect / lecturer:	Responsible for subject	ct / lecturer:			
dr ir	nż. Krzysztof Sroka		dr hab. inż. Ryszard Frąck	owiak			
	ail: krzysztof.sroka@p	ut.poznan.pl	email: ryszard.frackowiak@	email: ryszard.frackowiak@put.poznan.pl			
	61 665 22 75		tel. 6652294				
	dział Elektryczny Piotrowo 3A 60-965 Po	oznań	Wydział Elektryczny ul. Piotrowo 3A 60-965 Poznań				
Prere	equisites in term	s of knowledge, skills an					
		Basic knowledge of mathematic	s nhysics and electrical engine	erina			
1	Knowledge	Dasic knowledge of mathematic	s, physics and electrical engine	oring.			
2	Skills	Programming principles of general. Ability to effective self education related to the chosen field of study.					
3	Social competencies	Asense of the need to broaden the competence and willingness to work together in a team.					
Assu	mptions and obj	ectives of the course:					
		cture and characteristics of electric types of power plants. Methods a					
	Study outco	mes and reference to the	educational results for	a field of study			
Knov	vledge:						
		the structure of the power system of electricity - [K_W24+++]	n and the understanding of the p	processes of generation,			
	ic knowledge of energ - [K_W18++K_W08+]	y conversion in various types of p	ower plants, in particular, conve	entional and nuclear power			
		ernative patterns of power system	components - [K_W08+]				
Skills	S:						
1. Able to evaluate the power generation technologies in terms of efficiency and environmental impact - [K_U12+]							
2. Able to perform basic calculations of currents and voltages in power system - [K_U11+]							
		simple energy systems and equip	oment - [K_U15+]				
Social competencies:							

Assessment methods of study outcomes

1. Able to work in a group in the performance of laboratory tests and present the results of the work - [K_K06+]

Faculty of Electrical Engineering

Classes:

- credit on the basis of the current check messages and two written tests of the accounting tasks Laboratory:
- tests verifying needed knowledge to realisation indicated problems in some field of laboratory tasks,
- grade of knowledge and skills related to realisation of laboratory tasks, grade of report,
- collection of extra points of collaboration in frame of team realising laboratory tasks.

Course description

Characterization of the electric power system. Characterization of the process of electric energy generation in various types of power plants. Intermediate processes of energy conversion in conventional power plants. Energy conversion in nuclear power plants. Power system equivalent schemes. Calculation rules for power flow and voltage/power looses in simple networks.

Basic bibliography:

Additional bibliography:

Result of average student's workload

Activity	Time (working hours)
1. participation in the lectures	15
2. participation in the laboratory exercises	15
3. participation in the auditorium exercises	15
4. preparation to the laboratory exercises	14
5. preparation to the auditorium exercises	14
6. preparation of practical exercises report	14
7. participation in the consulting on the auditorium exercises and laboratory exercises	5

Student's workload

Source of workload	hours	ECTS
Total workload	92	3
Contact hours	50	2
Practical activities	42	1