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		STUDY MODULE D	FS	CRIPTION FORM			
Name of the module/subject Cod						de 10324381010324797	
Field of study			Profile of study (general academic, practical) Year /Semester				
Electrical Engineering			(brak)		4/8		
Elective path/specialty Electrical Systems in Mechatronics				Subject offered in: Polish		Course (compulsory, elective) obligatory	
Cycle of study: For			m of study (full-time,part-time)				
First-cycle studies			part-time				
No. of h	iours					No. of credits	
Lectur	re: 18 Classes	s: - Laboratory: -		Project/seminars:	-	1	
Status	of the course in the study	program (Basic, major, other)	(university-wide, from another	field)		
	((brak)			(br	ak)	
Education areas and fields of science and art						ECTS distribution (number and %)	
techr	nical sciences					1 100%	
Technical sciences					1 100%		
Responsible for subject / lecturer:							
dr inż. Krzysztof Kowalski email: Krzysztof.Kowalski@put.poznan.pl tel. +486652595 Wydział Elektryczny ul. Piotrowo 3A 60-965 Poznań							
Prerequisites in terms of knowledge, skills and social competencies:							
1	Knowledge	Basic knowledge of electrical engineering, electrical machines and system Windows.					
2	Skills	Basics of engineering structures at a general level. Ability to effectively self-education in a field related to the chosen field of study.					
3	Social competencies	The need to broaden their competence, willingness to work together as a team.					
Assu	mptions and obj	ectives of the course:					
	process. The ability to	late the task of synthesis and ana o identify and formulate design tas					
	Study outco	mes and reference to the	ed	ucational results for	r a f	field of study	
Knov	vledge:						
		aphic representation of the structupplications - [K_W17 ++]	ure, k	knows the rules of the project	ectio	on, creating sections,	
Skills	3:						
1. He o		ithm uses a programming langua	ge ar	nd related software tools u	sed i	in electrical engineering -	
		n development environments, sims of simple electrical circuits IK			uppo	ort the design serving to	

Social competencies:

1. Ability to act in an entrepreneurial manner in the area of ??electrical engineering - [K_K04 ++]

Assessment methods of study outcomes

Faculty of Electrical Engineering

Lecture

- assess the knowledge and skills listed on the written exam of a problematic,
- continuous evaluation for each course (rewarding activity and quality perception).

Get extra points for the activity in the classroom, and in particular for:

- propose to discuss further aspects of the subject;
- the effectiveness of the application of the knowledge gained during solving the given problem;
- comments related to the improvement of teaching materials.

Course description

Analysis and synthesis of a technical object. The implementation of the project tasks using AutoCAD system. The use of computer systems in the design of electromagnetic actuators. Issues two-dimensional and three-dimensional structures in computer recording technology.

Basic bibliography:

- 1. Dąbrowski M. Projektowanie maszyn elektrycznych prądu przemiennego, WNT, Warszawa 1994.
- 2. Chlebus E. ? Techniki komputerowe CAx w inżynierii produkcji, WNT, Warszawa 2000.
- 3. AUTOCAD technical documentation

Additional bibliography:

1. Autodesk programs - documentation

Result of average student's workload

Activity	Time (working hours)
1. participation in lectures	30
2. participation in the consultation	10
3. exam preparation	10
4. participation in the passing tests	5

Student's workload

Source of workload	hours	ECTS
Total workload	55	1
Contact hours	45	1
Practical activities	45	1