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		STUDY MODULE D	ESCRIPTION FORM				
	of the module/subject	sign of Electromechanical		Code 1010324391010324797			
Field of	•	<u> </u>	Profile of study		ar /Semester		
Elec	trical Engineerin	g	(general academic, practica	al)	5/9		
Elective path/specialty Electrical Systems in Mechatronics			Subject offered in: Polish	Cou	urse (compulsory, elective) obligatory		
Cycle of study:			Form of study (full-time,part-time	e)			
First-cycle studies			part-time				
No. of h	nours			No.	of credits		
Lectu	re: - Classes	s: - Laboratory: 9	Project/seminars:	9	2		
Status	of the course in the study	(university-wide, from another field)					
		(brak)		(brak)			
Educat	ion areas and fields of sci	ence and art		ECT and	ΓS distribution (number %)		
techi	nical sciences			2	100%		
	Technical scie	ences			2 100%		
dr inż. Krzysztof Kowalski email: Krzysztof.Kowalski@put.poznan.pl tel. +486652595 Wydział Elektryczny ul. Piotrowo 3A 60-965 Poznań							
Prere	equisites in term	s of knowledge, skills and	d social competencies	»:			
1	Knowledge	Basic knowledge of electrical en	igineering, 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	imptions and obj	ectives of the course:					
The at stages	of the design process	late the task of synthesis and anal s. Acquisition of computer skills of	ysis of the technical object, the technical design representation	ne implem on in two-a	entation of selected and three-dimensional		
		mes and reference to the	educational results fo	r a field	d of study		
Knov	vledge:						
		aphic representation of the structuplications - [K_W17 ++]	ire, knows the rules of the pro	jection, cr	reating sections,		
Skills	s:						
1. He can formulate an algorithm uses a programming language and related software tools used in electrical engineering - [K_U04 +]							
		n development environments, sim sof simple electrical circuits [K]		support th	e design serving to		
	al competencies:		•				

Assessment methods of study outcomes

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

Faculty of Electrical Engineering

Project:

- checking and favoring the knowledge necessary to carry out the set of problems
- evaluation based on the current progress of the projects in the form of computer projects
- continuous evaluation for each course rewarding gain skills students met the principles and methods.

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 laboratory classes	9
2. participation in project activities	9
3. participation in the consultation	10
4. project preparation activities	22
5. participation in the passing tests	4

Student's workload

Source of workload	hours	ECTS			
Total workload	54	2			
Contact hours	32	1			
Practical activities	50	2			