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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		program (Basic, major, other)	(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%	
ema tel. Wy	nż. Krzysztof Kowalski ail: Krzysztof.Kowalski +486652595 dział Elektryczny Piotrowo 3A 60-965 Po	@put.poznan.pl				
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

Labs with multimedia presentations, projects - analysis of various methods to solve the problem. 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. Jaskulski A. Autocad 2016 / LT2016 / 360 +. Kurs projektowania parametrycznego i nieparametrycznego 2D i 3D, Wydawnictwo Naukowe PWN SA, Warszawa 2015
- 2. Folega P., Wojnar G., Czech P.; Zasady zapisu konstrukcji Maszyn, Wydawnictwo Politechniki Śląskiej, Gliwice 2014.
- 3. Chlebus E. ? Techniki komputerowe CAx w inżynierii produkcji, WNT, Warszawa 2000.
- 4. Dąbrowski M. Projektowanie maszyn elektrycznych prądu przemiennego, WNT, Warszawa 1994.
- 5. AUTOCAD system documentation.

Additional bibliography:

1. Documentation CAD programs available on the web pages.

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