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racuii	y of Electrical El	ngmeering				
		STUDY MODULE DI	ESCF	RIPTION FORM		
Name of the module/subject Computer-Aided Design of Electromechanical Devices				ces	Code 1010321371010324797	
Field of study				Profile of study (general academic, practical)		Year /Semester
Elec	trical Engineerin	g	((brak)		4/7
Elective path/specialty Electrical Systems in Mechatronics				ubject offered in: Polish		Course (compulsory, elective) obligatory
Cycle of study:				of study (full-time,part-tim	e)	
First-cycle studies			full-time			
No. of h	ours		II.			No. of credits
Lectur	e: - Classes	s: - Laboratory: 15	Pro	oject/seminars:	15	3
Status o	of the course in the study	program (Basic, major, other)		versity-wide, from anothe	er field)	
	((brak)			(br	ak)
Education areas and fields of science and art						ECTS distribution (number and %)
technical sciences						3 100%
Technical sciences 3 100%						
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Prere	quisites in term	s of knowledge, skills and	d soc	ial competencie	s:	
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:				
	of the design process	late the task of synthesis and anal . Acquisition of computer skills of t				
	Study outco	mes and reference to the	educ	ational results fo	or a f	ield of study
Knov	/ledge:					
		aphic representation of the structu	ıre, kno	ws the rules of the pro	ojectio	n, creating sections,

Skills:

- 1. He can formulate an algorithm uses a programming language and related software tools used in electrical engineering $-[K_004 +]$
- 2. The use of properly chosen development environments, simulators and software tools to support the design serving to simulate, design and analysis of simple electrical circuits. [K_U13 ++]

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

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. Folęga 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	15
2. participation in project activities	15
3. participation in the consultation	18
4. project preparation activities	22
5. participation in the passing tests	7

Student's workload

Source of workload	hours	ECTS				
Total workload	77	3				
Contact hours	48	2				
Practical activities	55	3				