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	y of Electrical E	37	Lui	Topean Gredit Transier Gysten		
			DESCRIPTION FORM			
	the module/subject	sign of Electromechanica	DESCRIPTION FORM al Devices	Code 1010321271010324797		
Field of study Electrical Engineering			Profile of study (general academic, practical) general academic	Year /Semester		
	path/specialty	ystems in Mechatronics	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	ours			No. of credits		
Lectur	e: - Classes	s: - Laboratory: 1	5 Project/seminars:	15 3		
Status o	Status of the course in the study program (Basic, major, other) (university-wide, from another field) other university-wide					
Education	on areas and fields of sci	ECTS distribution (number and %)				
techn	ical sciences			3 100%		
	Technical scie	ences		3 100%		
Resp	onsible for subje	ect / lecturer:				
ema tel Wyd	ż. Krzysztof Kowalski il: Krzysztof.Kowalski +486652595 Iział Elektryczny riotrowo 3A 60-965 Po	@put.poznan.pl				
Prere	quisites in term	ns of knowledge, skills ar	nd 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	The need to broaden their competence, willingness to work together as a team.				

Assumptions and objectives of the course:

competencies

The ability to correctly formulate the task of synthesis and analysis of the technical object, the implementation of selected stages of the design process. Acquisition of computer skills of technical design representation in two-and three-dimensional systems.

Study outcomes and reference to the educational results for a field of study

Knowledge:

1. Basic knowledge of the graphic representation of the structure, knows the rules of the projection, creating sections, dimensioning engineering applications - [K_W17 ++]

Skills:

- 1. He can formulate an algorithm uses a programming language and related software tools used in electrical engineering -[K_U04 +]
- 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

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	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		