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Faculty of Electrical Engineering						
		STUDY MODULE D	ESCRIPTION FORM			
Name of the module/subject Computer-Aided Design of Electromechanical Devices			Code 1010321261010324797			
Field of	study :rical Engineeri	24	Profile of study (general academic, practical) (brak)			
Elective path/specialty			Subject offered in:	3 / 6 Course (compulsory, elective)		
		Systems in Mechatronics	polish	obligatory		
Cycle of	study:	-	Form of study (full-time,part-time)			
First-cycle studies			full-time			
No. of he		es: - Laboratory: -	Project/seminars:	No. of credits		
Status o	f the course in the study	y program (Basic, major, other) (brak)	(university-wide, from another f	ield) (brak)		
Education areas and fields of science and art				ECTS distribution (number and %)		
techn	ical sciences			2 100%		
Technical sciences				2 100%		
Resp	onsible for sub	ject / lecturer:				
ema tel. + Wyd	ż. Krzysztof Kowalsk il: Krzysztof.Kowalsk -486652595 ział Elektryczny iotrowo 3A 60-965 F	i@put.poznan.pl				
Prere	quisites in tern	ns of knowledge, skills an	d social competencies:			
1	Knowledge	Basic knowledge of electrical engineering, electrical machines and system Windows.				
_		Basics of engineering structures at a general level. Ability to effectively self-education in a field				

competencies Assumptions and objectives of the course:

The ability to correctly formulate the task of synthesis and analysis of the technical object. Understanding the stages of the design process. The ability to identify and formulate design task. Acquisition of computer skills mapping of simple construction.

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

The need to broaden their competence, willingness to work together as a team.

Knowledge:

Skills

Social

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

Skills:

2

3

- 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 ++]

related to the chosen field of study.

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	2
Contact hours	45	1
Practical activities	45	0