

STUDY MODULE DESCRIPTION FORM		
Name of the module/subject Computer-Aided Design of Electromechanical Devices		Code 1010324381010324797
Field of study Electrical Engineering	Profile of study (general academic, practical) (brak)	Year /Semester 4 / 8
Elective path/specialty Electrical Systems in Mechatronics	Subject offered in: Polish	Course (compulsory, elective) obligatory
Cycle of study: First-cycle studies	Form of study (full-time, part-time) part-time	
No. of hours Lecture: 18 Classes: - Laboratory: - Project/seminars: -		No. of credits 1
Status of the course in the study program (Basic, major, other) (brak)		(university-wide, from another field) (brak)
Education areas and fields of science and art technical sciences Technical sciences		ECTS distribution (number and %) 1 100% 1 100%
Responsible for subject / lecturer: dr inż. Krzysztof Kowalski email: Krzysztof.Kowalski@put.poznan.pl tel. +486652595 Wydział Elektryczny ul. Piotrowo 3A 60-965 Poznań		
Prerequisites in terms of knowledge, skills and 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 competencies	The need to broaden their competence, willingness to work together as a team.
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		
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		

<p>Lecture</p> <ul style="list-style-type: none"> - assess the knowledge and skills listed on the written exam of a problematic, - continuous evaluation for each course (rewarding activity and quality perception). <p>Get extra points for the activity in the classroom, and in particular for:</p> <ul style="list-style-type: none"> - 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		
<p>Lecture conducted in an interactive way. Computer aided design issues. Application of computer systems for digital prototyping. Introduction to AutoCAD. Issues two-dimensional structures in computer recording technology.</p>		
<p>Basic bibliography:</p> <ol style="list-style-type: none"> 1. Jaskulski A. Autocad 2016 / LT2016 / 360 +. Kurs projektowania parametrycznego i nieparametrycznego 2D i 3D, Wydawnictwo Naukowe PWN SA, Warszawa 2015 2. Fołęga 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. AUTOCAD system documentation. 		
<p>Additional bibliography:</p> <ol style="list-style-type: none"> 1. Documentation CAD programs available on the web pages. 		
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	1
Contact hours	45	1
Practical activities	45	1