		STUDY MODULE D	ESCRIPTION FORM			
Name of the module/subject Computer methods in control systems				Code 1010324381010322647		
Field of		-	Profile of study (general academic, practical)	Year /Semester		
	trical Engineerir	ng	general academic	4/8		
Elective path/specialty Microprocessor Control Systems in			Subject offered in: Polish	Course (compulsory, elective) obligatory		
Cycle of	f study:		Form of study (full-time,part-time)			
First-cycle studies			part-t	part-time		
No. of h	ours		•	No. of credits		
Lectur	e: 9 Classe	- 2				
Status o	of the course in the study	(university-wide, from another fie				
		other	unive	rsity-wide		
Educati	on areas and fields of sc	ience and art		ECTS distribution (number and %)		
techr	nical sciences			2 100%		
Technical sciences				2 100%		
Resp	onsible for subj	ect / lecturer:	Responsible for subject	t / lecturer:		
ema tel. Elec	nž. Michał Krystkowial ail: Michal.Krystkowial 061 665 2388 strical Piotrowo 3A, 60-965 F	k@put.poznan.pl	dr inż. Michał Krystkowiak email: Michal.Krystkowiak@put.poznan.pl tel. 061 665 2388 Electrical ul. Piotrowo 3A, 60-965 Poznań			
Prere	quisites in term	ns of knowledge, skills an	d social competencies:			
1	Knowledge		s to support analog-digital design of electronic circuits and e rules and declare modeling parameters and the types of			
2	Skills		in the field of electronics and power systems for the analysis of a simulation model to declare some types of analysis parameters. on studies			
3	Social competencies	He can think and act in an entre electronic circuits and electronic	preneurial manner in the use of s s.	simulation tools for design of		
Assu	-	jectives of the course:				
Acquis	ition of the ability to u	se simulation tools selected electra ameters selected analyzes. Acquis				
	Study outco	omes and reference to the	educational results for a	a field of study		
Knov	/ledge:					
		hoice of simulation tools for the im _W02 ++, K_W011+++]]	plementation of the specific mod	el, characterize the basic types		
	uld be able to: identify is - [[K_W02+++, K_	/ the criteria necessary for the prop W14++]]	per modeling of electronic contro	l systems and power electronic		
Skills						
Social competencies:						
Assessment methods of study outcomes						
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Lecture:						
- continuous evaluation for each course (rewarding activity and quality perception)						
Laboratory:						
- rewarding the knowledge necessary for the accomplishment of problems in the area of tasks in the laboratory,						
- continuous evaluation, rewarding gain skills they met the principles and methods						
 assess the knowledge and skills related to the implementation of laboratory exercises, the evaluation report made ??exercise. 						
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,						
- ability to work within a team performing a task specific practice in the laboratory.						
Course description						
Update 2017: discussion of simulation tools (capabilities and applications), principles of modeling of electronic systems and power electronics using selected tools, declaring parameters and the types of simulation analysis, carry out detailed research and analysis completed simulation models, verification of the accuracy of the results of simulations, different numeric algorithms.						
Basic bibliography:						
1. Artur KRÓL, Joanna MOCZKO: PSPICE symulacja i optymalizacja układów elektronicznych, WN, Poznań 2000						
2. Wiesława Regel: Wykresy i obiekty graficzne w MATLAB. Wyd.MIKOM 2013						
3. B.Mrozek, Zb.Mrozek: MATLAB i Simulink. Poradnik użytkownika. Wyd.HELION 2004						
Additional bibliography:						
Result of average student's workload						
Activity	Time (working hours)					
1. Lectures, laboratories, consulting	45					
2. Laboratory classes, preparation for classes, reports	35					
Student's workload						
Source of workload	hours	ECTS				

45

35

15

2

1

1

Total workload

Contact hours

Practical activities