STUDY MODULE DESCRIPTION FORM								
Name of the module/subject Introduction to computer-aided computations				Code 1010341711010349407				
Field of study				ofile of study		Year /Semester		
Mathematics in technology				(general academic, practical) (brak) 1		1/1		
	path/specialty	lology		ibject offered in:		Course (compulsory, elective)		
		-		Polish		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: 15 Classes	s: - Laboratory: 15	Pro	ject/seminars:	-	2		
Status o	-	program (Basic, major, other)	(univ	versity-wide, from another				
(brak)				(brak)				
Education	on areas and fields of sci	ence and art				ECTS distribution (number and %)		
technical sciences						2 100%		
Responsible for subject / lecturer:								
dr Marian Dondajewski email: marian.dondajewski@put.poznan.pl tel. 61 665-2805 FACULTY OF ELECTRICAL ENGINEERING ul. Piotrowo 3A, 60-965 Poznań tel.: 61 665-2320								
		s of knowledge, skills an	d soci	al competencies	:			
1	Knowledge	Basic knowledge of mathematics of secondary school						
2	Skills		er. Can the simple problems to formulate ways to solve them s of the implementation of these methods.					
3	Social competencies	It has a willingness to cooperate within the team. Understands the role of the process of computerization. Understands the need for lifelong learning.						
Assumptions and objectives of the course:								
To be f	amiliar with the capab	ilities of the Math package (MAT	LAB) ai	nd its use in solving ma	athen	natical problems.		
		assical computational algorithms.						
	tation of typical data s							
Develo	p skills to construct al	gorithms mes and reference to the	oduc	ational results for	rəf	ield of study		
Know			Guuc		al	icia di study		
Knowledge:1. He knows the basics of programming and can use the package supporting technical and scientific calculations (MATLAB)								
[K_W06] 2. Knows the basic data structures and algorithms of classical computing [K_W05]								
Skills:								
 Knows how to construct a simple calculation algorithms by selecting appropriate data structure [K_U08] 								
2. Able to solve mathematical problems using the software package supporting math [K_U20]								
Social competencies:								
1. Understands the need for lifelong learning [K_K01]								
2. Able to use the technical documentation and search for the information you need in the literature (also in foreign languages) [K_K05]								

Assessment methods of study outcomes

. praca zbiorowa pod redakcją Ewy Magnuckiej-Blandzi: Met Vydawanictwo Politechniki Poznańskiej, Poznań, 2013.	ody numeryczne w MatLabie ? Wybrane zagadnienia.
Additional bibliography:	
2. Mrozek B., Mrozek Z.; MATLAB i Simulink Poradnik użytko	wnika. Wydanie II, Helion, Wrocław, 2004.
. Brzóska J., Dobraczyński L.: MATLAB - Środowisko oblicze	-
Basic bibliography:	
Graphical presentation of the results of calculations.	
Opportunities mathematical package MATLAB.	
Examples of classical algorithms and their analysis.	
Basic instructions and data structures in MATLAB.	
Vays to write numbers in a computer and the properties of flo	ating point operations.
Course c	lescription
Developed aesthetic diligence reports and jobs - in the self-	•
Subsequent to the improvement of teaching materials;	
given problem;	
The effectiveness of the application of the knowledge gained	d during solving the
Propose to discuss further aspects of the subject;	
Get extra points for the activity in the classroom, and in partice	ular for:
your practice, the assessment report performed exercise.	
Assess the knowledge and skills associated with the implem	entation of the tasks
principles and methods	
Continuous evaluation for each course - rewarding gain skill	
⁹ Test and favoring knowledge necessary to perform the tasks	s of laboratory

Result of average student's workload

Activity	Time (working hours)	
1. Participation in class lecture		15
2. Participation in laboratory classes	15	
3. Participation in the consultations related to the implementation of particular laboratory / project	2	
4. Completion (within own work) reports on laboratory exercises	10	
5. Write a program / programs testing and verification (time outside	2	
6. Preparation for exercises / laboratory	2	
7. Preparation for tests	8	
8. Familiarization with the indicated literature / teaching materials	0	
Student's wo	rkload	
Source of workload	hours	ECTS
Total workload	58	2
Contact hours	34	1
Practical activities	27	1