		STUDY MODULE D	ESC	RIPTION FORM			
Name of the module/subject Introduction to programming				Code 1010341711010349406		19406	
Field of study Mathematics in Technology				Profile of study (general academic, practical) general academic	Year /Semester		
Elective	e path/specialty	-		Subject offered in: Polish	Course (compulsory, obligator	. ,	
Cycle o	f study:		Form	n of study (full-time,part-time)		-	
First-cycle studies (Polish Qualifications Framework level six)				full-time			
No. of h	nours				No. of credits		
Lectu	re: 30 Classe	s: - Laboratory: 30) Г	Project/seminars:	- 4		
Status	of the course in the study	program (Basic, major, other)	(u	iniversity-wide, from another f			
		Basic		unive	ersity-wide		
Educati	ion areas and fields of sci	ience and art			ECTS distribution (nu and %)	umber	
The s	The sciences					4 100%	
	Mathematical sciences					4 100%	
	Piotrowo 3A 60-965 Pe Pequisites in term	as of knowledge, skills and Basic knowledge of high school		-			
1	Knowledge		i li Qi	-]			
2	Skills	Computer skills. The ability to effectively self-education in a field related to the chosen field of study. [PQF 4]					
3	Social competencies	Knowledge of the limits of their knowledge and understanding of the need for further education. [PQF 4]					
Familia	arize students with the and prove their correct	jectives of the course: e concepts of algorithm and progra tness.				e them	
Know	•		euu	cational results for	a field of study		
	vledge:	ge about the use of mathematical t	toole [
		sics of computational and program			S_WG)]		
Skills	S:						
progra 2. The	mming environment [lostudent is able to ope	struct an algorithm for solving a si K_U04 (P6S_UW)] arate the devices in accordance wit in a computer laboratory [K_U09 (ith ger	neral requirements and kn			
Socia	al competencies:						
		e level of his knowledge [K_K01 (eepening and broadening the know			(P6S_KK)]		
		Assessment method	ds o	f study outcomes			

 assessment of knowledge gained during the lecture assessment of skills related to the implementation of project tasks 		
 assessment of student preparation for laboratory classes and assessment of s laboratory exercises 	skills related to the im	plementation of
assessment of teamwork skills		
Course description		
Computer arithmetic		
ntroduction to work in the Matlab environment Syntax and semantics of expressions		
Number representations		
nstructions: <i>if, for, while, switch</i> Graphics		
Correctness of programs / scripts		
Functions, local and global variables		
Introduction to algorithms		
Applied learning methods:		
lectures:	boord	
Lecture with multimedia presentation supplemented by examples given on the b Lecture conducted in an interactive manner with the formulation of student ques		
Student activity is taken into account during the course of the assessment,	50010,	
The initiating of discussion during the lecture,		
Theory presented in connection with practice,		
Theory presented in connection with the current knowledge of students,		
Taking into consideration various aspects of the presented issues,		
Presenting a new topic preceded by a reminder of related content known to stud	dents from other subj	ects;
Laboratories:		
Laboratories supplemented with multimedia presentations		
Detailed review of the reports by the teacher and discussion of the comments,		
Work in teams,		
Computational experiments.		
Undete 2019		
Update 2018.		
Basic bibliography:	Norozowa : Mudaw N	
 Ćwiczenia z Matlab : przykłady i zadania; Anna Kamińska, Beata Pańczyk, W MATLAB : środowisko obliczeń naukowo-technicznych; Jerzy Brzózka, Lech 		
2005.		
Additional bibliography:		
1. MATLAB : dla naukowców i inżynierów; Rudra Pratap, Warszawa : Wydawnie	ctwo Naukowe PWN,	2015.
Result of average student's wo	orkload	
Activity	Time (workin hours)	
1. Participation in lectures		30
2. Participation in laboratory classes		30
3. participation in lecture consultations	2	
4. participation in consultations regarding laboratories	2	
5. preparation for laboratory classes and for completion of laboratories	38	
6. Preparation for passing the lecture	12	
Student's workload		
Source of workload	hours	ECTS
Total workload	114	4
Total workload Contact hours	<u>114</u> 64	4