

Subject card

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Subject name and code	Informatics, PG_00055818								
Field of study	Ocean Engineering								
Date of commencement of studies	October 2021		Academic year of realisation of subject		2021/2022				
Education level	first-cycle studies		Subject group		Obligatory subject group in the field of study				
Mode of study	Full-time studies		Mode of delivery			at the university			
Year of study	1		Language of instruction			Polish			
Semester of study	2		ECTS credits			4.0			
Learning profile	general academic profile		Assessment form			assessment			
Conducting unit	Faculty of Ocean Engineering and Ship Technology								
Name and surname	Subject supervisor		dr inż. Marcin Życzkowski						
of lecturer (lecturers)	Teachers	achers		dr inż. Marcin Życzkowski dr inż. Paulina Strąkowska					
Lesson types and methods	Lesson type	Lecture	Tutorial	Laboratory	Projec	t	Seminar	SUM	
of instruction	Number of study hours	0.0	0.0	30.0	15.0		0.0	45	
	E-learning hours inclu	E-learning hours included: 0.0							
	Adresy na platformie eNauczanie:								
Learning activity and number of study hours	Learning activity Participation in classes include plan			Participation in consultation hours		Self-study		SUM	
	Number of study hours	45		5.0		50.0		100	
Subject objectives	The aim of the course is to master the skills in the field of programming, problem solving and algorithm creation, building block diagrams and using pseudo code and scripting language in the Matlab environment. Writing programs, creating functions and procedures. Using tables and variables of various types. Using functions that allow you to visualize test results in the MAtlab and MsExcel environments								
Learning outcomes	Course outcome		Subject outcome			Method of verification			
	[K6_U01] can obtain information from literature, databases and other sources, can verify and organize the obtained information, interpret them and form conclusions and justified opinions					[SU1] Assessment of task fulfilment [SU2] Assessment of ability to analyse information [SU4] Assessment of ability to use methods and tools [SU5] Assessment of ability to present the results of task			
[K6_W04] has a bas in IT, electronics, au control, computer gr to understand the pot their application in o technology		omation and aphics useful ssibilities of	analyzes using the created models in MATlab. Acquisition of		[SW2] Assessment of knowledge contained in presentation [SW3] Assessment of knowledge contained in written work and projects				
Subject contents	The thematic scope of the classes includes the basics of computer science and science about programming, problem solving and algorithm creation, construction of block diagrams and using pseudo code and script language in the Matlab environment. Writing programs, creating functions and procedures. Using tables and variables of various types. Using functions that allow you to visualize test results.								
Prerequisites and co-requisites									
Assessment methods and criteria	Subject passing criteria		Passing threshold		Percentage of the final grade				
	umiejętność rozwiązywań problemów. algorytmy		60.0%						
Recommended reading	Basic literature		 http://www.mathworks.com/ Working with Matlab (or octave). A Tutorial (Chicago Univ.) Matlab Tutorial (Utah) Matlab Summary and Tutorial Microsoft Support 						
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	Supplementary literature	 A Practical Introduction to Matlab (Updated for Matlab 5) CTM: Control Tutorials for Matlab MATLAB Tutorial (UMD) Scilab (free version of Matlab) 			
	eResources addresses				
example questions/	Function construction. Input and output parameters. Application of functions and algorithms. Searching for vector and matrix elements that meet given conditions, sorting, checking if a given number is a prime number, compute greatest common divisor, calculating factorials, recursion.				
Work placement	Not applicable				

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