

## Subject card

Subject name and code	Informatics, PG_00055818								
Field of study	Ocean Engineering								
Date of commencement of studies	October 2022		Academic year of realisation of subject			2022/2023			
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		dr inż. Tacjana Niksa-Rynkiewicz						
	dr inż. Patrycja Puzdrowska								
			dr inż. Marcin Życzkowski						
			,						
	dr inż. Piotr Bzura								
Lesson types and methods of instruction	Lesson type	Lecture	Tutorial	Laboratory	Projec	:t	Seminar	SUM	
	Number of study hours	0.0	0.0	30.0	15.0		0.0	45	
	E-learning hours included: 0.0								
Learning activity and number of study hours	Learning activity Participation in classes include plan					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_W04] has a basic knowledge in IT, electronics, automation and control, computer graphics useful to understand the possibilities of their application in ocean technology		Learning to conduct basic analyzes using the created models in MATlab. Acquisition of the ability to design algorithms			[SW3] Assessment of knowledge contained in written work and projects [SW2] Assessment of knowledge contained in presentation			
	other sources, can verify and		language in the MATlab environment.			[SU5] Assessment of ability to present the results of task [SU4] Assessment of ability to use methods and tools [SU2] Assessment of ability to analyse information [SU1] Assessment of task fulfilment			
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	Subject passing criteria		Passing threshold			Percentage of the final grade			
and criteria	umiejętność rozwiązywań problemów. algorytmy		60.0%			100.0%			

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Recommended reading	Basic literature	<ul> <li>http://www.mathworks.com/</li> <li>Working with Matlab (or octave). A Tutorial (Chicago Univ.)</li> <li>Matlab Tutorial (Utah)</li> <li>Matlab Summary and Tutorial</li> <li>Microsoft Support</li> </ul>				
	Supplementary literature	<ul> <li>A Practical Introduction to Matlab (Updated for Matlab 5)</li> <li>CTM: Control Tutorials for Matlab</li> <li>MATLAB Tutorial (UMD)</li> <li>Scilab (free version of Matlab)</li> </ul>				
	eResources addresses	Adresy na platformie eNauczanie:				
		Informatyka, L+P, OCE, sem.2, lato 22/23 (PG_00055818) - Moodle ID: 28687 https://enauczanie.pg.edu.pl/moodle/course/view.php?id=28687				
		Informatyka, L+P, OCE, sem.2, lato 22/23 (PG_00055818) - Moodle ID: 28687 https://enauczanie.pg.edu.pl/moodle/course/view.php?id=28687				
		Informatyka, L+P, OCE, sem.2, lato 22/23 (PG_00055818) - Moodle ID: 28687 https://enauczanie.pg.edu.pl/moodle/course/view.php?id=28687				
Example issues/ example questions/ tasks being completed	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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