



Subject card

Subject name and code	Informatics, PG_00055285						
Field of study	Transport and Logistics						
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	1		ECTS credits		5.0		
Learning profile	general academic profile		Assessment form		assessment		
Conducting unit	Faculty of Ocean Engineering and Ship Technology						
Name and surname of lecturer (lecturers)	Subject supervisor		dr inż. Tacjana Niksa-Rynkiewicz				
	Teachers		dr inż. Marcin Życzkowski dr inż. Paulina Strąkowska dr inż. Ewelina Ciba dr inż. Piotr Bzura dr inż. Patrycja Puzdrowska dr inż. Tacjana Niksa-Rynkiewicz				
Lesson types and methods of instruction	Lesson type	Lecture	Tutorial	Laboratory	Project	Seminar	SUM
	Number of study hours	15.0	0.0	30.0	15.0	0.0	60
	E-learning hours included: 0.0						
Learning activity and number of study hours	Learning activity	Participation in didactic classes included in study plan		Participation in consultation hours		Self-study	SUM
	Number of study hours	60		5.0		60.0	125
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 transport		The student is able to independently develop a solution using a block diagram and scripting language in the MATLAB environment		[SW3] Assessment of knowledge contained in written work and projects [SW1] Assessment of factual knowledge		
	[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		The student is able to find independently the information allowing to solve tasks and tests in the field of learning about programming, creating and building simple programs in the MATLAB environment		[SU3] Assessment of ability to use knowledge gained from the subject [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 and criteria	Subject passing criteria		Passing threshold		Percentage of the final grade		
	umiejętność rozwiązywać problemów. algorytmy		60.0%		100.0%		

Recommended reading	Basic literature	<ul style="list-style-type: none"> • http://www.mathworks.com/Working with Matlab (or octave). A Tutorial (Chicago Univ.) • Matlab Tutorial (Utah) • Matlab Summary and Tutorial
	Supplementary literature	<ul style="list-style-type: none"> • A Practical Introduction to Matlab (Updated for Matlab 5) • CTM: Control Tutorials for Matlab • MATLAB Tutorial (UMD)
	eResources addresses	<p>Podstawowe https://enauczanie.pg.edu.pl/moodle/course/view.php?id=24396 - Adresy na platformie eNauczanie:</p> <p>Informatyka, P1b,TiL, sem.01,zimowy 22/23 - Moodle ID: 26914 https://enauczanie.pg.edu.pl/moodle/course/view.php?id=26914 Informatyka, P1b,TiL, sem.01,zimowy 22/23 - Moodle ID: 26914 https://enauczanie.pg.edu.pl/moodle/course/view.php?id=26914 Informatyka, P1b,TiL, sem.01,zimowy 22/23 - Moodle ID: 26914 https://enauczanie.pg.edu.pl/moodle/course/view.php?id=26914</p>
Example issues/ example questions/ tasks being completed		
Work placement	Not applicable	