GDAŃSK UNIVERSITY OF TECHNOLOGY

Subject card

Subject name and code	Informatics, PG_00041651
Field of study	Transport and Logistics, Transport and Logistics

Date of commencement of studies	October 2020	Academic year of realisation of subject	2020/2021
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	4.0
Learning profile	general academic profile	Assessment form	assessment

Conducting unit	Department of Marine Mechatronics -> Faculty of Ocean Engineering and Ship Technology
Name and surname of lecturer (lecturers)	**Subject supervisor** dr inż. Tacjana Niksa-Rynkiewicz
	Teachers mgr inż. Danuta Łutowicz
	dr inż. Marcin Życzkowski
	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	45.0	0.0	0.0	60

E-learning hours included: 0.0

Adresy na platformie eNauczanie:

INFORMATYKA PG_00041651 EXCEL - Moodle ID: 6983
https://enauczanie.pg.edu.pl/moodle/course/view.php?id=6983

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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	35.0	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 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 rozwiązywań problemów. algorytmy	60.0%	100.0%

Recommended reading	Basic literature	• http://www.mathworks.com/ • Working with Matlab (or octave). A Tutorial (Chicago Univ.) • Matlab Tutorial (Utah) • Matlab Summary and Tutorial • A Practical Introduction to Matlab (Updated for Matlab 5) • CTM: Control Tutorials for Matlab • MATLAB Tutorial (UMD) • Matlab - Indiana University • Numerical Analysis with MATLAB • GNU Octave Repository
	Supplementary literature	.
	eResources addresses	INFORMATYKA PG_00041651 EXCEL - Moodle ID: 6983 https://enauczanie.pg.edu.pl/moodle/course/view.php?id=6983 INFORMATYKA PG_00041651 EXCEL - Moodle ID: 6983 https://enauczanie.pg.edu.pl/moodle/course/view.php?id=6983 INFORMATYKA PG_00041651 EXCEL - Moodle ID: 6983 https://enauczanie.pg.edu.pl/moodle/course/view.php?id=6983

Example issues/ example questions/ tasks being completed	
Work placement	Not applicable