



Subject card

Subject name and code	Computer Science I, PG_00050264						
Field of study	Mechatronics, Mechatronics						
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 Subject group related to scientific research 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			5.0		
Learning profile	general academic profile	Assessment form			exam		
Conducting unit	Department of Mechanics and Mechatronics -> Faculty of Mechanical Engineering and Ship Technology						
Name and surname of lecturer (lecturers)	Subject supervisor	dr hab. inż. Marek Galewski					
	Teachers	mgr inż. Piotr Duba dr hab. inż. Marek Galewski					
Lesson types and methods of instruction	Lesson type	Lecture	Tutorial	Laboratory	Project	Seminar	SUM
	Number of study hours	30.0	0.0	15.0	0.0	0.0	45
	E-learning hours included: 0.0						
Informatyka I - W/L, MTR, I st., sem. 02 (PG_00050264) - Moodle ID: 9225 https://enauzanie.pg.edu.pl/moodle/course/view.php?id=9225							
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	45	6.0		74.0		125
Subject objectives	Providing students basic knowledge about computer systems architecture, communication, data exchange and operating systems. Teach students basic structural programming with Matlab and elements of software engineering						
Learning outcomes	Course outcome	Subject outcome			Method of verification		
	K6_U09	Student writes simple structural programs in Matlab environment			[SU1] Assessment of task fulfilment		
	K6_U05	Student uses Matlab environment on basic level			[SU4] Assessment of ability to use methods and tools [SU1] Assessment of task fulfilment		
	K6_W11	Student presents waterfall model of IT system life			[SW3] Assessment of knowledge contained in written work and projects		
	K6_W06	Student presents elements of computer system architecture			[SW1] Assessment of factual knowledge		
Subject contents	Basics of computer systems architecture (CPU, memory, other hardware elements, data transfer and communication). Basics of operating systems architecture. Basics of software engineering. Data security. Structural programming in Matlab.						
Prerequisites and co-requisites							
Assessment methods and criteria	Subject passing criteria	Passing threshold			Percentage of the final grade		
	Written exam	52.0%			70.0%		
	Written colloquium - laboratory exercises	51.0%			30.0%		
	Completing of laboratory exercises	60.0%			0.0%		

Recommended reading	Basic literature	<p>Metzger P.: Anatomia PC, Helion, 2008 (i wcześniejsze wydania)</p> <p>Mrozek B., Mrozek Z.: MATLAB i Simulink. Poradnik użytkownika. Wydanie II, Helion, 2010</p> <p>Tanenbaum A., Wetherall D., Sieci komputerowe, Wyd. V, Helion, 2012</p>
	Supplementary literature	Sradomski W., MATLAB. Praktyczny podręcznik modelowania, Helion , 2015
	eResources addresses	
Example issues/ example questions/ tasks being completed	A list of 60 exemplary questions is provided to student 1 month before the exam	
Work placement	Not applicable	