

Subject card

Cubicat name and sade	Fundamentals of computing I, PG_00020963								
Subject name and code									
Field of study	Electrical Engineering								
Date of commencement of studies	October 2021		Academic year of realisation of subject			2021/	2021/2022		
Education level	first-cycle studies		Subject gro	oup		Obliga	Obligatory subject group in the field of study		
						Subject group related to scientific research in the field of study			
Mode of study	Part-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	Department of Control Engineering -> Faculty of Electrical and Control Engineering								
Name and surname	Subject supervisor	dr inż. Paweł Kowalski							
of lecturer (lecturers)	Teachers		dr inż. Paweł Kowalski						
Lesson types and methods of instruction	Lesson type	Lecture	Tutorial	Laboratory	Projec	t	Seminar	SUM	
	Number of study hours	10.0	0.0	20.0	0.0		0.0	30	
	E-learning hours included: 0.0								
	Address on the e-learning platform: https://enauczanie.pg.edu.pl/moodle/course/view.php?id=21248 Adresy na platformie eNauczanie:								
Learning activity and number of study hours	Learning activity Participation in classes include plan				Self-study SUM		SUM		
	Number of study 30 hours		3.0		67.0		100		
Subject objectives	Acquire the skills to write and run a program in C.								
Learning outcomes	Course out	Subject outcome Method of verification							
	K6_K01		Student models simple electrical circuits in C language programs.			[SK5] Assessment of ability to solve problems that arise in practice [SK1] Assessment of group work skills			
	K6_U01		The student is able to search for the source of information; properly apply knowledge to his/her own needs; verify the obtained results.			[SU2] Assessment of ability to analyse information [SU4] Assessment of ability to use methods and tools			
	K6_W07		The student uses an integrated C programming environment. He uses appropriate data types in programs. Creates simple programs performing input / output operations. Applies program constructs of the C language in created programs. Creates the functions to which it passes parameters.			[SW1] Assessment of factual knowledge			
Subject contents	LECTURE Basics of computer architecture. Elements of C language: function main, constants, basic types (int, char, float, double), C operators (syntax rules, operation precedence), expressions in C, structured constructs (if, for, while, do while, goto, switch). Functions (definition, function call, parameter passing, returning values). LABS IDE of Code::Blocks, integer arithmetics, structured constructs of C, float-point arithmetics, single-index arrays, functions, characters and strings, bit arithmetics.								
Prerequisites and co-requisites	Information Technologies (04 21 10 00 04).								
Assessment methods and criteria	Subject passing criteria		Passing threshold			Percentage of the final grade			
	laboratory tasks		50.0%		60.0%				
	final test				40.0%				

Data wydruku: 05.05.2024 01:54 Strona 1 z 2

Recommended reading	Basic literature	 Drozdek A., Simon D. L.: Struktury danych w języku C, WNT, Warszawa Kernighan B., Richie D Język ANSI C, Helion, Gliwice 			
	Supplementary literature	Wróblewski P Algorytmy, struktury danych i techniki programowania, Helion, Gliwice			
	eResources addresses				
Example issues/ example questions/ tasks being completed	Write a program in C language generating pięciokolumnową array containing four-digit values of trigonometric functions: sine, cosine, tangent and cotangent, for angles in the range [0 ° + 90 °], the angle changes every five (5 minutes of arc). Write a program in C loading the legal parameters of date and time (year, month, day, hour, minute, second); program to calculate how many seconds have elapsed since the beginning of the year. Write a function, which will swap the pairs of numbers in an array of integers sent as a function parameter. Write a tic-tac-toe game				
Work placement	Not applicable				

Data wydruku: 05.05.2024 01:54 Strona 2 z 2