

SDAŃSK UNIVERSITY 的 OF TECHNOLOGY

Subject card

Subject name and code	Language C/C++, PG_00053211							
Field of study	Chemistry							
Date of commencement of studies	October 2023		Academic year of realisation of subject			2023/2024		
Education level	first-cycle studies		Subject group			Optional subject group		
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			3.0		
Learning profile	general academic profile		Assessment form			assessment		
Conducting unit	Department of Electrochemistry, Corrosion and Materials Engineering -> Faculty of Chemistry						1	
Name and surname	Subject supervisor	dr hab. inż. Artur Zieliński						
of lecturer (lecturers)	Teachers		dr hab. inż. Artur Zieliński					
			dr inż. Łukasz Gaweł					
Lesson types and methods	Lesson type	Lecture	Tutorial	Laboratory	Project		Seminar	SUM
of instruction	Number of study hours	15.0	0.0	15.0	0.0		0.0	30
	E-learning hours inclu							.
Learning activity and number of study hours	Learning activity	Participation in classes includ plan		Participation in consultation hours		Self-study		SUM
	Number of study hours	30		5.0		40.0		75
Subject objectives	Getting acquainted w	ith several mod	lern programm	ing languages.				
Learning outcomes	Course out	Subject outcome			Method of verification			
	[K6_K01] understands the need for lifelong learning, can inspire and organize the process of teaching other people		The student is able to translate the knowledge of the implementation of computer algorithms into the way of carrying out a task in a professional career.			[SK3] Assessment of ability to organize work		
	models which are necessary for the design of technological processes, knows chemical structure of contemporary materials and its relation to their properties, enabling the selection of the materials for sustainable development technology and material-efficient and energy- efficient methods		The student is able to make an algorithmization of the technological process.			[SW1] Assessment of factual knowledge		
	[K6_U08] is capable to design and carry out the experiment which is necessary to confirm a given hypothesis and sees wider context, often beyond-technical, of the analysed phenomena		The student is able to use the programming language to implement the algorithm necessary to perform a specific task.			[SU5] Assessment of ability to present the results of task [SU4] Assessment of ability to use methods and tools		
Subject contents	1. Introduction, histor Pointers and arrays.5	y of language.2 . Multidimensic	2. Functions an mal arrays.6. S	d operators.3. tructures and t	Controll unions.7	ing the 7. Progr	execution of amming of m	the program.4. icrocontrollers.

Prerequisites and co-requisites	General knowledge of computer science.						
Assessment methods and criteria	Subject passing criteria	Passing threshold	Percentage of the final grade				
	Laboratory	50.0%	50.0%				
	Lecture	50.0%	50.0%				
Recommended reading	Basic literature	B. W. Kernighan, D. M. Ritchie, Język C, programowanie, Helion, Gliwice, 2010.					
	Supplementary literature	The Internet					
	eResources addresses	Adresy na platformie eNauczanie:					
		ELEKTROCHEMICZNE ŹRÓDŁA ENERGII [2023/24] - Moodle ID: 36094					
		https://enauczanie.pg.edu.pl/moodle/course/view.php?id=36					
Example issues/ example questions/ tasks being completed	What are the disadvantages of compiled languages versus interpreted languages?How can I draw 16 real numbers with a C program?How can you implement a vector in C language?Describe the role and meaning of the main () function in a C program.						
Work placement	Not applicable	Not applicable					