

表 GDAŃSK UNIVERSITY OF TECHNOLOGY

Subject card

Subject name and code	, PG_00051066								
Field of study	Technical Physics								
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			3.0			
Learning profile	general academic profile		Assessment form			assessment			
Conducting unit	Department of Theore	etical Physics a	and Quantum Information -> Faculty of Applied Physics and Mathematics					nd Mathematics	
Name and surname of lecturer (lecturers)	Subject supervisor		dr inż. Patryk Jasik						
	Teachers		dr hab. Jan Franz						
		dr inż. Patryk Jasik							
Lesson types and methods	Lesson type	Lecture	Tutorial	Laboratory	Projec	t	Seminar	SUM	
of instruction	Number of study hours	15.0	0.0	30.0	0.0		0.0	45	
	E-learning hours included: 0.0								
	Adresy na platformie eNauczanie: Proceduralne języki programowania I - Moodle ID: 12597 https://enauczanie.pg.edu.pl/moodle/course/view.php?id=12597								
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	45		5.0		25.0		75	
Subject objectives	Student learns procee	nt learns procedural programming in the selected programming language (e.g C language).						ge).	
Learning outcomes	Course outcome		Subject outcome			Method of verification			
	К6_К01		The student understands the need to learn and get to know well-known technologies.			[SK2] Assessment of progress of work			
	K6_W05		The student can write programs in the C language using appropriate libraries.			[SW3] Assessment of knowledge contained in written work and projects			
	K6_U03		The student is able to program in C language.			[SU1] Assessment of task fulfilment			
Subject contents	Lecture: Classification, similarities, and differences between programming languages. Introduction to programming in C language. Programming technique using procedural programming languages. Classification and description of the basic libraries used in programming in C. Discussion of the lexical units occurring in C. Classification and description of the main control blocks in C. Discussion of the syntax and mode of action: functions, tables, and pointers. Description of the preprocessor and its fundamental directives. Classification and description of operations on files. Action on strings. Discussion of the structure, union, and bit-fields.								
Prerequisites and co-requisites	Exercises in the computer laboratory: the lecture contents are realized in the practical examples. Basic knowledge of operating systems Unix / Linux and MS Windows.								

Assessment methods	Subject passing criteria	Passing threshold	Percentage of the final grade			
and criteria	Five very short tests of the practical skills of programming	50.0%	25.0%			
	A written knowledge test of the lecture	50.0%	25.0%			
	Two tests of the practical skills of programming	50.0%	50.0%			
Recommended reading	Basic literature	B.W. Kernighan, D.M. Ritchie, "C Programming Language", Prentice Hall C.L. Tondo, S.E. Gimpel, "The C Answer Book: Solutions to the Exercises in "The C Programming Language", Prentice Hall I. Sommerville, "Software Engineering", Addison Wesley "C Programming", from Wikibooks, the open-content textbooks collection				
	Supplementary literature	N. Wirth, "Algorithms + Data Structures = Programs", Prentice Hall S. Prata, "C Primer Plus", Sams S. Oaulline, "Practical C Programming", O'Reilly Media				
	eResources addresses	Proceduralne języki programowania I - Moodle ID: 12597 https://enauczanie.pg.edu.pl/moodle/course/view.php?id=12597				
Example issues/ example questions/ tasks being completed						
Work placement	Not applicable					