

## Subject card

Subject name and code	, PG_00051066								
Field of study	Technical Physics								
Date of commencement of studies	October 2021		Academic year of realisation of subject			2021/2022			
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 Theoretical Physics and Quantum Information -> Faculty of Applied Physics and Mathematics								
Name and surname of lecturer (lecturers)	Subject supervisor Teachers		dr inż. Patryk Jasik dr inż. Patryk Jasik						
Lesson types and methods of instruction	Lesson type	Lecture	Tutorial	Laboratory	Projec	:t	Seminar	SUM	
	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 (2022) - Moodle ID: 20209 https://enauczanie.pg.edu.pl/moodle/course/view.php?id=20209								
Learning activity and number of study hours	Learning activity Participation ir classes include plan				Self-study		SUM		
	Number of study 45 hours			5.0		25.0		75	
Subject objectives	Student learns procedural programming in the selected programming language (e.g C language).								
Learning outcomes	Course outcome		Subject outcome			Method of verification			
	K6_U03		C language.			[SU1] Assessment of task fulfilment			
	K6_W05		the C language using appropriate			[SW3] Assessment of knowledge contained in written work and projects			
	K6_K01					[SK2] Assessment of progress of work			
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.  Exercises in the computer laboratory: the lecture contents are realized in the practical examples.								
Prerequisites and co-requisites	Basic knowledge of operating systems Unix / Linux and MS Windows.								
Assessment methods and criteria	Subject passing criteria		Passing threshold		Percentage of the final grade				
	Two tests of the practical skills of programming		50.0%			50.0%			
	A written knowledge test of the lecture		50.0%		25.0%				
	Five very short tests of the practical skills of programming		50.0%			25.0%			

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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 (2022) - Moodle ID: 20209 https://enauczanie.pg.edu.pl/moodle/course/view.php?id=20209
Example issues/ example questions/ tasks being completed		
Work placement	Not applicable	

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