



## Subject card

Subject name and code	Introduction to computer science, PG_00020914						
Field of study	Nanotechnology						
Date of commencement of studies	October 2020		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	2		Language of instruction		Polish polish		
Semester of study	3		ECTS credits		2.0		
Learning profile	general academic profile		Assessment form		assessment		
Conducting unit	Department of Solid State Physics -> Faculty of Applied Physics and Mathematics						
Name and surname of lecturer (lecturers)	Subject supervisor		dr hab. Maciej Bobrowski				
	Teachers		dr inż. Marek Augustyniak				
Lesson types and methods of instruction	Lesson type	Lecture	Tutorial	Laboratory	Project	Seminar	SUM
	Number of study hours	0.0	0.0	30.0	0.0	0.0	30
	E-learning hours included: 0.0						
	Adresy na platformie eNauczanie:						
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	30		2.0		18.0	50
Subject objectives	Training to work with text processor program, spreadsheet program and a program for preparation of presentations. Training to work with Latex system: compiling, preamble, mathematics equations. Training basics of programming in C language: variables, logical instructions, loops, one- and two-dimensional arrays. Training capabilities of writing basic structural programs.						
Learning outcomes	Course outcome		Subject outcome		Method of verification		
	K6_U01		Student can for himself find solutions of exercises sent to students by teacher by learning from literature, teacher's materials and from other books.		[SU3] Assessment of ability to use knowledge gained from the subject [SU4] Assessment of ability to use methods and tools [SU1] Assessment of task fulfilment		
	K6_W04		Student can practically create and operate spreadsheets, multimedia presentations and word-processing documents.		[SW2] Assessment of knowledge contained in presentation [SW1] Assessment of factual knowledge		
	K6_U03		Student can on his own use elements of structural programming and can write programs.		[SU4] Assessment of ability to use methods and tools [SU1] Assessment of task fulfilment		
Subject contents	1. typesetting, spreadsheets, presentations, 2 classes. 2. test from part 1, 1 class, 3. Linux operating system and Latex, 4 classes, 4. test from part 2, 1 class, 5. C-language programming, 6 classes, 6. test from part 3, 1 class						
Prerequisites and co-requisites	No incoming requirements. One anticipates processing basic informations on operating systems and basics of programming.						
Assessment methods and criteria	Subject passing criteria		Passing threshold		Percentage of the final grade		
	tests on laboratories		51.0%		100.0%		

Recommended reading	Basic literature	1. Brian. W. Kernighan, Dennis. M. Ritchie, „ANSI C”.
	Supplementary literature	1. John S. Gray, „Communication between processes in Unix”, RM, Warszawa, 1998. 2. Dale Dougherty, Arnold Robbins, sed and awk, O'Reilly, 2002, 3. William H. Press, Saul. A. Teukolsky, William T. Vetterling, Brian P. Flannery, Numerical recipes in C, Cambridge Univ. Press, 1992, 4. Eleen Frisch, Unix, System Administration, O'Reilly, 1996,
	eResources addresses	
Example issues/ example questions/ tasks being completed	1. write a program, 2. make a document.	
Work placement	Not applicable	