		-	-	Bial	ystok Univ	ersity of	Technolog	у		
Field of study	Computer Science							Degree level and programme type	-	gree full-time amme
Specialization/ diploma path	Study profile								academic	
Course name	Programming Basics Course code								FCS-00031	
course name	Course type								obligatory	
Forms and number of hours	L	С	LC	Р	SW	FW	S	Semester		3
of tuition	30	30			30			No. of ECTS credits		6
Entry requirements Course objectives	To familiarize students with the basic techniques of structured programming and implementation of these techniques in C / C ++. Teaching the practical application of these techniques in simple programs written in C / C ++. Learning design, implement, track performance of the software and documentation of larger programs using structured programming. Education practice the use of literature and documentation programming language. Education habit of systematically acquiring knowledge of the lecture.									
Course content	Algorithm. Programming: algorithmization, coding. Flowcharts. Systems and programming aids. Structured data structures: constants, standard scalar types. Operators. Expressions. Defining variables, basic instruct lterations. Defining types. Arrays. Scalar types, flow of control. Functions. Passing parameters. Side effects program, structural types: structure, strings. Files. Formatting output. Pointers. Dynamic variables. Memory structures. Lists.									tructions. ucture of the
Teaching methods	lecture	problem,	programmi	ng, subjec	ct exercises	,				
Assessment method			-		-		•	Workshop and Classes); Speciali		
C	knowledge, evaluation of selected programs in the classroom, a larger program / project implemented out								Reference to the learning	
Symbol of learning outcome									outcomes for the field of study	
L01	familiar with the methodology, techniques and tools for structured programming								K_W04	
L02	knows and applies the principles of structured programming design of simple applications								K_W06 K_U04	
L03	is able to test a structural program, in case of detecting errors, is able to diagnose them								K_U04	
LO4	able to formulate an algorithm using a programming language to develop a computer program								K_W04	
C									K_U06 Type of tuition during which the	
Symbol of learning outcome	Iearning outcome Methods of assessing the learning outcomes LO1 exam, guiz								outcome is assessed	
L02	evaluation of programs and simple project								 L, C	
LO3	evaluation of programs									
LO4	exam, quiz								L, Sw, C	
Student workload (in hours)								No. of hours		
Calculation	1 - Attendance in lectures -								30	
	2 - Attendance in Classes and Specialistic workshops -								60	
	3 - Preparing to Classes and Sw -								13	
	4 - Attendance on the consultations -								5	
	5 - Preparation to the examination -								14	
	6 - Preparation to Classes -								13	
	7 - Preparing the project (including its presentation) - TOTAL:								15 150	
Quantitative indicators								HOURS	No. of ECTS credits	
Student workload - activities that require direct teacher participation								95	3.8	
Student workload - practical activities								(4)+(2)+(1) 101	4.0	
Basic references 1. Kernighan B.W., Richtie D.M.: The C Programming Language. 2. Code::Blocks (http://www.codeblocks.org/).								(7)+(3)+(2)+(6)	I	
	 Wirth N., Systematic Programming: An Introduction. Stephen Prata, C Primer Plus. Herbert Schildt, C/C++ Programmer's Reference. Dev-C++ (http://www.bloodshed.net/devcpp.html). Tondo C.L., Gimpel S. E., The C answer book. 									
Supplementary references	3. Herb 4. Dev-	ert Schildt, C++ (http:/	/www.bloo	dshed.net/o	devcpp.htm					
Supplementary references Organisational unit conducting the course	3. Herb 4. Dev-	ert Schildt, C++ (http:/	/www.bloo	dshed.net/o	devcpp.htm	I).	:		Date of issuing	the programme

L – lecture, C – classes, LC – laboratory classes, P – project, SW – specialization workshop, FW – field work, S – seminar

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