

Subject card

Subject name and code Field of study Date of commencement of											
•	Automation, Robotics				Informatics I, PG_00038090						
Date of commencement of	Automation, Robotics and Control Systems										
studies			Academic year of realisation of subject			2021/2022					
Education level	first-cycle studies		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			4.0					
Learning profile			Assessment form			assessment					
Conducting unit	Faculty of Electrical and Control Eng										
Name and surname of lecturer (lecturers)	Subject supervisor dr inż. Robert Smyk										
	Teachers		dr inż. Daniel Wachowiak								
			dr inż. Robert	Smyk							
Lesson types and methods of instruction	Lesson type	Lecture	Tutorial	Laboratory Project		t	Seminar	SUM			
	Number of study hours	30.0	0.0	15.0	0.0		0.0	45			
	E-learning hours included: 0.0										
Learning activity and number of study hours	Learning activity	Participation in classes includ plan		Participation is consultation h		Self-study		SUM			
	Number of study 45 hours			10.0		45.0		100			
Subject objectives	Getting to know the components and working of computers, including binary arithmetics ad different representations of numbers. Gaining entry-level experience in programming using the C language.										
Learning outcomes	Course outcome		Subject outcome			Method of verification					
	K6_W06					[SW2] Assessment of knowledge contained in presentation					
	K6_U04					[SU1] Assessment of task fulfilment					
Subject contents	Internals and working of CPU, basics of C programming: basic program components, variables and constants, relational and boolean expressions, branch instrucion, loops, functions, passing parameters by value, return values, algorithm block diagrams, sorting algorithms, algorithm complexity assessmentaaa										
Prerequisites and co-requisites											
Assessment methods and criteria	Subject passing criteria		Passing threshold		Percentage of the final grade						
	Homeworks		60.0%		12.5%						
	Assessments - theory		60.0%		37.5%						
	Assessment - practical		60.0%		37.5%						
	Preparation checks		60.0%			12.5%					
Recommended reading	Basic literature		 B. Kernighan, D. Ritchie, Język C, WNT 1988. Niklaus Wirth, Algorytmy + struktury danych = programy, WNT 1989. William Stallings, Computer Organization And Architecture. Designing for performance. 8th-edition. 								

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	Supplementary literature	none				
	eResources addresses					
Example issues/ example questions/ tasks being completed	Enumerate the tasks of the operating Explain the difference between recurded Describe the rules of algorithm compresent the working of selected sort Present the approaches to programm	osive and iterative way of programming blexity analysis				
Work placement	Not applicable					

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