

## Subject card

Subject name and code	Basic of Computer Sy	/stems Organiz	ation, PG_000	47821				
Field of study	Biomedical Engineeri	ng						
Date of commencement of studies	October 2022		Academic y realisation			2024/2	2025	
Education level	first-cycle studies		Subject group			Optional subject group Subject group related to scientific research in the field of study		
Mode of study	Full-time studies		Mode of de	livery		at the	university	
Year of study	3		Language of	of instruction	n	Polish		
Semester of study	5		ECTS cred	its		3.0		
Learning profile	general academic pro	ofile	Assessmer	nt form		exam		
Conducting unit	Department of Autom	atic Control ->	Faculty of Elec	tronics, Teleco	mmuni	cations	and Informatio	s
Name and surname	Subject supervisor		dr inż. Paweł I	Raczyński				
of lecturer (lecturers)	Teachers		dr inż. Paweł	Raczyński				
Lesson types and methods	Lesson type	Lecture	Tutorial	Laboratory	Projec	:t	Seminar	SUM
of instruction	Number of study hours	30.0	0.0	15.0	0.0		0.0	45
	E-learning hours inclu			<del> </del>		1		1
Learning activity and number of study hours	Learning activity	Participation in classes include plan		Participation i consultation h		Self-st	udy	SUM
	Number of study hours	45		3.0		27.0		75
Subject objectives	The main aim of the sand basic knowledge							rganization
Learning outcomes	Course out	come	Subj	ect outcome			Method of veri	fication
	[K6_W04] Knows an understands, to an a extent, the principles and techniques of principles of software development programming device controllers using mic or programmable elesystems specific to the study, and organisatis systems using compidevices	dvanced , methods ogramming computer nt or s or roprocessors ments or ne field of ion of uters or such	systems with I knows the rule PC104, VME buses. The str rules of practic Windows and systems. The techniques of interface softy knows the tec real-time softy knows the rule the elements of embedded co	creating software for embedded systems with PCs. The student knows the rules for using the PC104, VME and Compact PCI buses. The student knows the rules of practical use of Linux, Windows and other operating systems. The student knows the techniques of input and output interface software. The student knows the techniques of creating real-time software. The student knows the rules for implementing the elements of self-diagnosis of embedded computer systems.		f factual		
	[K6_U04] can apply programming method techniques as well as apply appropriate promethods and tools in software development programming device controllers using mic or programmable elesystems specific to the study	ds and s select and ogramming computer nt or s or roprocessors	software for ewith PCs. Students are PC104 PCI buses in plants with the systems Linux others. The stuse the input a software technic The student k put into practic creating real-t student knows diagnostic ele	nows how to combedded systedent and know, vME and Cororactice. The souse the operator, Windows and udent knows hand output inteniques in pract nows and is about the technique software. It is how to use the ments of emberems in practical control of the combet in practical control of the cont	ems s how mpact tudent ting d ow to erface ice. ble to ues of The eedded	use me	Assessment of thods and too Assessment of nt	ls

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communication interfaces 43. Dedicated software: mini kernel techniques, interrupt handling procedures techniques, software loop techniques 44. Software diagnostics 45. Embedded system examples  Prerequisites and co-requisites  Assessment methods and criteria  Subject passing criteria 2 partial exams 51.0% Practical exercise 51.0% 60.0%
Assessment methods and criteria  Subject passing criteria  Passing threshold  Percentage of the final grad  2 partial exams  51.0%  40.0%
and criteria 2 partial exams 51.0% 40.0%
2 partial coarris 01.070 40.070
Practical exercise   51.0%   60.0%
Recommended reading  Basic literature  A. Skorupski, Podstawy budowy i działania komputerów, WKŁ B. Zieliński, Układy mikroprocesorowe. Przykłady rozwiązań, Helion 2 Katalogi, strony WWW i podręczniki firmowe. Metzger P. "Anatomia PC", HELION, 2008. Niederliński A. Mikroprocesory mikrokomputer mikrosystemy. WSiP 1988. W. Komorowski, Krótki kurs architektury organizacji komputerów, Mikom 2004
Supplementary literature No requirements
eResources addresses Adresy na platformie eNauczanie:
Example issues/ example questions/ tasks being completed
Work placement Not applicable

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