

Subject card

Subject name and code	Application Servers in Medicine, PG_00049303								
Field of study	Biomedical Engineering								
Date of commencement of studies	October 2022		Academic year of realisation of subject			2025/2026			
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 delivery			at the university			
Year of study	4		Language of instruction			Polish			
Semester of study	7		ECTS credits			3.0			
Learning profile	general academic profile		Assessment form			exam			
Conducting unit	Department of Biome	dical Engineering -> Faculty of Electronics, Telecommunications and Informatics					rmatics		
Name and surname of lecturer (lecturers)	Subject supervisor		dr inż. Adam Bujnowski						
	Teachers dr inż. Adam Bujnowski								
Lesson types and methods	Lesson type	Lecture	Tutorial	Laboratory	Project		Seminar	SUM	
of instruction	Number of study hours	15.0	0.0	15.0			0.0	30	
	E-learning hours included: 0.0								
Learning activity and number of study hours	Learning activity Participation in classes includ plan				Self-study SUM				
	Number of study hours	30		3.0		42.0		75	
Subject objectives	The goal of the subject is to familiarize students with the typical techniques of serving in information services. There will be mentioned both, hardware issues to produce reliable datacenter and typical information services with their realisation.								
Learning outcomes	Course outcome		Subject outcome			Method of verification			
	extent, the principles and techniques of principles of software development programming device controllers using micror programmable elesystems specific to the study, and organisati	derstands, to an advanced ent, the principles, methods at techniques of programming at the principles of computer tware development or gramming devices or attrollers using microprocessors brogrammable elements or tems specific to the field of dy, and organisation of tems using computers or such		Student creates service for automated data collection.			[SU1] Assessment of task fulfilment		
	[K6_U02] can perform tasks related to the field of study in an innovative way as well as solve complex and nontypical problems, applying knowledge of physics, in changing and not fully predictable conditions [K6_U07] can apply methods of process and function support,		Student creates tematic service using given tools Student creates selected elements of bigger system on the base of			[SU4] Assessment of ability to use methods and tools [SU2] Assessment of ability to analyse information			
	specific to the field of study		given information			analy 30 information			

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Subject contents	Definition of a server							
	Requirements for dervers, Methods of improving server's accesibility							
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	Server-room - requirements							
	TCP/IP basics							
	Programming of the server and client side							
	Operating sytem an a network service							
	Electronic mail - principles of operation							
	FTP protocol							
	www - principles of operation, progr	ramming of the www- CGI, servlets, a	pplets					
	Servlet contaINERS - EXAMPLES							
	Principles of cloud computing							
	Medical information services							
Prerequisites and co-requisites								
Assessment methods	Subject passing criteria	Passing threshold	Porcontago of the final grade					
and criteria	final writting class	50.0%	Percentage of the final grade 50.0%					
	laboratory achievements	50.0%	50.0%					
Recommended reading	Basic literature	Multiple authors, Vademecum teleinformatyka, Tom 1, IDG 1999						
Recommended reading		inditiple authors, vademecum telelinormatyka, rom 1, ibo 1999						
		Multiple authors, Vademecum teleinformatyka, Tom 2, IDG 1999						
		nformatyka, Tom 3, IDG 1999						
	Barnett, Apache, Zabezpieczenia aplikacji i serwerów www, Helion 2007							
	Supplementary literature	Ford, Apache 2. Pocket reference. O'relly						
		www.ltsp.org						
		www.apache.org	.apache.org					
	eResources addresses Adresy na platformie eNauczanie:							
Example issues/ example questions/								
tasks being completed	Not applicable							
Work placement	Not applicable							

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