GDAŃSK UNIVERSITY OF TECHNOLOGY

Subject card

Subject name and code	Application Servers in Medicine, PG_00049303		
Field of study	Biomedical Engineering		
Date of commencement of studies	October 2024	Academic year of realisation of subject	2027/2028
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 Biomedical Engineering -> Faculty of Electronics, Telecommunications and Informatics		
Name and surname of lecturer (lecturers)	Subject supervisor	dr inż. Adam Bujnowski	
	Teachers	dr inż. Adam Bujnowski	

Lesson types and methods of instruction

Lesson type	Lecture	Tutorial	Laboratory	Project	Seminar	SUM
Number of study hours	15.0	0.0	15.0	0.0	0.0	30

E-learning hours included: 0.0

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	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
[K6_W04] knows and understands, to an advanced extent, the principles, methods and techniques of programming and the principles of computer software development or programming devices or controllers using microprocessors or programmable elements or systems specific to the field of study, and organisation of systems using computers or such devices	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	Student creates tematic service using given tools	[SU4] Assessment of ability to use methods and tools
[K6_U07] can apply methods of process and function support, specific to the field of study	Student creates selected elements of bigger system on the base of given information	[SU2] Assessment of ability to analyse information

Subject contents	Definition of a server Requirements for dervers, Methods of improving server's accesibility 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, programming of the www- CGI, servlets, applets Servlet contaINERS - EXAMPLES Principles of cloud computing Medical information services
Prerequisites and co-requisites	

Assessment methods and criteria

Subject passing criteria	Passing threshold	Percentage of the final grade
final writting class	50.0%	50.0%
laboratory achievements	50.0%	50.0%

Recommended reading	Basic literature	Multiple authors, Vademecum teleinformatyka, Tom 1, IDG 1999 Multiple authors, Vademecum teleinformatyka, Tom 2, IDG 1999 Multiple authors, Vademecum teleinformatyka, 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
	eResources addresses	Adresy na platformie eNauczanie:
Example issues/ example questions/ tasks being completed		
Work placement	Not applicable	