



Subject card

Subject name and code	Network applications, PG_00031969						
Field of study	Technical Physics						
Date of commencement of studies	February 2024		Academic year of realisation of subject		2024/2025		
Education level	second-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	1		Language of instruction		Polish		
Semester of study	2		ECTS credits		4.0		
Learning profile	general academic profile		Assessment form		assessment		
Conducting unit	Katedra Fizyki Teoretycznej i Informatyki Kwant. -> Faculty Of Applied Physics And Mathematics -> Wydziały Politechniki Gdańskiej						
Name and surname of lecturer (lecturers)	Subject supervisor		dr inż. Bartosz Reichel				
	Teachers		dr inż. Bartosz Reichel				
Lesson types and methods of instruction	Lesson type	Lecture	Tutorial	Laboratory	Project	Seminar	SUM
	Number of study hours	15.0	0.0	30.0	0.0	0.0	45
	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	45		6.0		49.0	100
Subject objectives	Knowledge of network technology used in the creation of applications for both server and client side.						
Learning outcomes	Course outcome		Subject outcome		Method of verification		
	[K7_W08] Has the knowledge of ethical aspects of teaching, research and engineering. Knows industrial property rights and copyrights.		Use of legal software. Do not apply your knowledge for illegal purposes (hacking).		[SW2] Assessment of knowledge contained in presentation		
	[K7_U02] Has enhanced knowledge of programming languages and can use software packages.		Distinguishes between the scripting programming language and programming lang		[SU1] Assessment of task fulfilment		
Subject contents	1) What are web/network applications, and in what languages / scripts / platforms can be created 2) review of the most popular platform for creating web applications 3) Framework, ASP.NET MVC, together with the MVC elements 4) PHP scripting language 5) Review of frameworks for PHP 6) Create a web application using the UDP/TCP transport layer, implementing own application-layer protocols.						
Prerequisites and co-requisites	no						
Assessment methods and criteria	Subject passing criteria		Passing threshold		Percentage of the final grade		
	Practical exercise		50.0%		100.0%		
Recommended reading	Basic literature		S.Orłowski, C#. Tworzenie aplikacji sieciowych. 101 gotowych projektów, Helion D.E. Comer , Sieci komputerowe i intersieci, WNT, Warszawa, 2003 A. Sopala, Pisanie programów internetowych, Mikom, Warszawa, 2000				
	Supplementary literature		None				
	eResources addresses		Adresy na platformie eNauczanie:				
Example issues/ example questions/ tasks being completed	- Client-server application based on datagram / connection - Application: blocking and non-blocking base on TCP - WebService using REST architectural style						
Work placement	Not applicable						

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