

表 GDAŃSK UNIVERSITY OF TECHNOLOGY

Subject card

Subject name and code	Internet Technologies in Mobile Applications, PG_00048058							
Field of study	Informatics, Electronics and Telecommunications, Biomedical Engineering, Biomedical Engineering, Biomedical Engineering							
Date of commencement of studies	February 2023		Academic year of realisation of subject			2023/2024		
Education level	on 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		2.0			
Learning profile	general academic profile		Assessment form		assessment			
Conducting unit	Department of Computer Communications -> Faculty of Electronics, Telecommunications and Informatics							
Name and surname of lecturer (lecturers)	Subject supervisor		dr inż. Wojciech Gumiński					
	Teachers		dr inż. Wojciech Gumiński					
Lesson types and methods of instruction	Lesson type	Lecture	Tutorial	Laboratory	Projec	t	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	ctivity Participation in classes include plan		I didactic Participation in consultation ho		Self-study		SUM
	Number of study hours	30		4.0		16.0		50
Subject objectives	The main objective of the course is to provide students with the web technologies and proper use of web technologies							

Learning outcomes	Course outcome	Subject outcome	Method of verification	
	[K7_U04] can apply knowledge of programming methods and techniques as well as select and apply appropriate programming methods and tools in computer software development or programming devices or controllers using microprocessors or programmable elements or systems specific to the field of study, making assessment and critical analysis of the prepared software as well as a synthesis and creative interpretation of information presented with it	Student selects authentication mechanisms. Student selects the right internet technologies. Student applies Internet standards.	[SU4] Assessment of ability to use methods and tools [SU1] Assessment of task fulfilment	
	[K7_K02] is ready to provide critical evaluation of received content and to acknowledge the importance of knowledge in solving cognitive and practical problems	Student selects the right internet technologies.	[SK2] Assessment of progress of work	
	[K7_U41] can select methods of modelling and analysis of information systems and applications using selected elements of theoretical computer science and modern programming tools	Student selects methods of cryptographic information security.	[SU4] Assessment of ability to use methods and tools [SU1] Assessment of task fulfilment	
	[K7_U41] can select methods of modelling and analysis of information systems and applications using selected elements of theoretical computer science and modern programming tools	Student selects methods of cryptographic information security.	[SU4] Assessment of ability to use methods and tools [SU1] Assessment of task fulfilment	
	[K7_W05] Knows and understands, to an increased extent, methods of process and function support, specific to the field of study.	Student develops implementations of internet technology mechanisms.	[SW1] Assessment of factual knowledge	
	[K7_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 develops implementations of internet technology mechanisms.	[SW1] Assessment of factual knowledge	
	[K7_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 develops implementations of internet technology mechanisms.	[SW1] Assessment of factual knowledge	
	[K7_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 develops implementations of internet technology mechanisms.	[SW1] Assessment of factual knowledge	

Subject contents	1. Standards and specifications in Internet programming. XHTML and XML. 2. Internet application - activity monitoring of servers, workstations and network hardware. 3. Concentration and dispersion of network flow: many servers one IP address - virtual HTTP servers. 4. Concentration and dispersion of network flow: one domain many IP addresses - DNS configuration. 5. Web caching proxy servers - Internet connection load control. 6. Web caching proxy servers - Internet access control. 7. Web caching - server load limiting. 8. Web switching basics. 9. Web switching - switching in layer 7. 10. User authorization with challenge response exchange. 11. Internet transactions security basics.					
Prerequisites and co-requisites						
Assessment methods and criteria	Subject passing criteria	Passing threshold	Percentage of the final grade			
	Practical exercise	50.0%	65.0%			
	Test	50.0%	35.0%			
Recommended reading	Basic literature	Lecture notes				
	Supplementary literature	Coggeschall J., PHP5 Księga eksperta, Helion 2005. w3c.org jquery.com getbootstrap.com angularjs.org w3schools.com				
	eResources addresses	Adresy na platformie eNauczanie:				
Example issues/ example questions/ tasks being completed	Web application implementation using Bootstrap and JQuery frameworks. Implementation of a multi-layered web application using the AngularJS frameworks. Web service implementation.					
Work placement	Not applicable					