

## Subject card

Subject name and code	Internet Programming, PG_00058934								
Field of study	Informatics								
Date of commencement of studies	October 2024		Academic year of realisation of subject			2026/2027			
Education level	first-cycle studies		Subject group			Optional subject group Subject group related to scientific research in the field of study			
Mode of study	Part-time studies		Mode of delivery			at the university			
Year of study	3		Language of instruction			Polish			
Semester of study	5		ECTS credits		5.0				
Learning profile	general academic profile		Assessme	ment form			assessment		
Conducting unit	Department of Metrology and Optoelectronics -> Faculty of Electronics, Telecommunications and Informatics								
Name and surname of lecturer (lecturers)	Subject supervisor		dr inż. Katarzyna Karpienko						
	Teachers		dr inż. Katarzyna Karpienko						
		mgr inż. Maciej Kraszewski							
Lesson types and methods of instruction	Lesson type	Lecture	Tutorial	Laboratory	Projec	Project Semina		SUM	
	Number of study hours	30.0	0.0	0.0	15.0		0.0	45	
	E-learning hours included: 0.0								
Learning activity and number of study hours	Learning activity Participation in classes include plan					Self-study		SUM	
	Number of study hours	45		7.0		73.0		125	
Subject objectives	To provide students with knowledge and skills in web application development by discussing the main techniques, languages and tools used on the server and client side.								

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understands, to an advanced extent, the operation and evaluation criteria of data processing, storage and transfer methods, including computational algorithms, artificial intelligence and data mining  [K6_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 programmable elements or systems specific to the field of study.  [K6_W04] knows and understands, to an advanced extent, the principles of computer software development or programming devices or controllers using microprocessors or programmable elements or systems specific to the field of study.  [K6_W04] knows and understands, to an advanced extent, 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 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  [K6_U41] can produce, test or evaluate software using modern programming platforms, tools, languages and paradigms of different levels, as well as use							
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 systems specific to the field of study  [K6_W04] knows and understands, to an advanced extent, the principles of computer software development or programming and the principles of computer software development or programmable elements or systems specific to the field of study, and organisation of systems using computers or controllers using microprocessors or programmable elements or systems specific to the field of study, and organisation of systems using computers or levels, and organisation of systems and paradigms of different levels, as well as use	[SW1] Assessment of factual knowledge						
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  [K6_U41] can produce, test or evaluate software using modern programming platforms, tools, languages and paradigms of different levels, as well as use  necessary to start working on creating a web application. Knows the network model and its layers. He knows the protocols necessary to transfer data across layers. Uses web browsers technologies - HTML, CSS, JavaScript, SVG, and those used on the server-side.    The student is able to develop a web application using the known languages and programming tools on the client and server-side.	[SU4] Assessment of ability to						
evaluate software using modern programming platforms, tools, languages and paradigms of different levels, as well as use  evaluate software using modern languages and programming tools on the client and server-side.  web application using the known languages and programming tools on the client and server-side.  [SU4] Assessment of ability use methods and tools	[SW1] Assessment of factual knowledge						
	[SÚ4] Assessment of ability to use methods and tools [SU5] Assessment of ability to present the results of task						
[K6_U03] can design, according to required specifications, and make a simple device, facility, system or carry out a process, specific to the field of study, using suitable methods, techniques, tools and materials, following engineering standards and norms, applying technologies specific to the field of study and experience gained in the professional engineering environment	k						
Subject contents  Scope of the material covered:the main protocols of the Internet,XHTML,Javascript,DOM + DHTML,SVG,Silverlight,web servers,PHP,Symfony,AJAX,security of applications and protocols,socistandards and their documentation.	DHTML,SVG,Silverlight,web servers,PHP,Symfony,AJAX,security of applications and protocols,sources of						
Prerequisites And co-requisites Knowledge of basic concepts and models related to distributed computing (client-server model, P2)	Knowledge of basic concepts and models related to distributed computing (client-server model, P2P).						
Assessment methods Subject passing criteria Passing threshold Percentage of the final	l grade						
and criteria kolokwium zaliczające 50.0% 50.0%							
projekt 50.0% 50.0%							
Protocols and Practice". Wyd. John Wiley & Sons, Ltd.	Shklar L., Rosen R.: "Web Application Architecture - Principles, Protocols and Practice". Wyd. John Wiley & Sons, Ltd.						
Supplementary literature Dokumenty RFC.							
eResources addresses Adresy na platformie eNauczanie:							
Example issues/ example questions/ tasks being completed							
Work placement Not applicable							

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