



Subject card

Subject name and code	Internet Programming, PG_00058934						
Field of study	Informatics						
Date of commencement of studies	October 2026	Academic year of realisation of subject			2028/2029		
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	Assessment form			assessment		
Conducting unit	Metrology and Electronic Systems Department -> Faculty of Electronics Telecommunications and Informatics -> Faculties of Gdańsk University of Technology						
Name and surname of lecturer (lecturers)	Subject supervisor	dr inż. Bartłomiej Dec					
	Teachers	dr inż. Bartłomiej Dec mgr inż. Maciej Kraszewski					
Lesson types	Lesson type	Lecture	Tutorial	Laboratory	Project	Seminar	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 didactic classes included in study plan		Participation in consultation hours		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.						

Learning outcomes	Course outcome	Subject outcome	Method of verification
	[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 programming devices or controllers using microprocessors or programmable elements or systems specific to the field of study	The student knows how to use HTML, CSS, JavaScript, and tools such as the Node.js runtime environment and the React.js library to create a web application.	[SU3] Assessment of ability to use knowledge gained from the subject [SU4] Assessment of ability to use methods and tools [SU5] Assessment of ability to present the results of task
	[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	The student has the knowledge 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.	[SW1] Assessment of factual knowledge
	[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	The student can design and implement a web application, both on the client and server-side. knows how to prepare software documentation.	[SU1] Assessment of task fulfilment
Subject contents	Course content – lecture 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, sources of standards and their documentation.		
Prerequisites and co-requisites	Knowledge of basic concepts and models related to distributed computing (client-server model, P2P).		
Assessment methods and criteria	Subject passing criteria	Passing threshold	Percentage of the final grade
	projekt	50.0%	50.0%
	kolokwium zaliczające	50.0%	50.0%
Recommended reading	Basic literature	Shklar L., Rosen R.: "Web Application Architecture - Principles, Protocols and Practice". Wyd. John Wiley & Sons, Ltd.	
	Supplementary literature	Dokumenty RFC.	
	eResources addresses		
Example issues/ example questions/ tasks being completed			
Practical activities within the subject	Not applicable		

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