

Subject card

Subject name and code	Internet Techniques, PG_00143806						
Field of study	Informatics						
Date of commencement of studies	October 2025		Academic year of realisation of subject		2026/2027		
Education level	Bachelor's studies		Subject group		Obligatory subject group in the field of study 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	2		Language of instruction		Polish		
Semester of study	4		ECTS credits		7.0		
Learning profile	academic		Assessment form		exam		
Conducting unit							
Name and surname of lecturer (lecturers)	Subject supervisor		dr Andrzej Borzyszkowski				
	Teachers						
Lesson types	Lesson type	Lecture	Tutorial	Laboratory	Project	Seminar	SUM
	Number of study hours	30.0	0.0	30.0	0.0	0.0	60
	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	60		0.0		130.0	190
Subject objectives	Familiarizing students with current Internet standards and methods of using them in their projects.						
Learning outcomes	Course outcome		Subject outcome		Method of verification		
	[INFL3_W08] has knowledge of network technologies, including basic communication protocols, security and construction of network applications		has knowledge of network technologies, including basic communication protocols, security, and building network applications		[SW4] test/exam - oral or written [SW2] presentation/project/paper/report		
	[INFL3_U02] can precisely formulate questions to deepen one's understanding of a given topic or find missing elements of reasoning		is able to precisely formulate questions to deepen his/her own understanding of a given topic or to find missing elements of a reasoning		[SU2] presentation/project/paper/report		
	[INFL3_U06] is able to design, create, run and test programs using dedicated tools and adequate templates		is able to design, create, run and test programs using dedicated tools and adequate patterns		[SU2] presentation/project/paper/report		
	[INFL3_W10] knows the basic principles of occupational health and safety in the IT profession		knows the basic principles of health and safety rules for IT professionals		[SW2] presentation/project/paper/report		
Subject contents	1. Introduction to HTML5. 2. Basics of CSS3. 3. Basics of JavaScript. 4. Selected issues responsive web design, graphics and multimedia, offline applications, real-time communication. Student will become familiar with terminology in English.						

Prerequisites and co-requisites			
Assessment methods and criteria	Subject passing criteria	Passing threshold	Percentage of the final grade
	test	51.0%	30.0%
	project	51.0%	10.0%
	exam	51.0%	60.0%
Recommended reading	Basic literature	- HTML5 Rocks: slides, webpage. W3C strona World Wide Web Consortium. - HTML i CSS. Zaprojektuj i zbuduj witrynę WWW. Podręcznik Front-End Developera, Jon Duckett. - Responsywne strony WWW dla każdego, Clarissa Peterson. - Podręcznik projektantów WWW. Smashing Magazine, Smashing Magazine	
	Supplementary literature	none	
	eResources addresses		
Example issues/ example questions/ tasks being completed	Implementation of a static website, e.g. about personal interests, meeting HTML5 and CSS3 standards according to the guidelines provided.		
	Implementation of a web application allowing the input and/or change of parameter values for a selected mathematical problem and presenting the complete solution step by step on the screen (correctly displaying mathematical formulas in LaTeX).		
	Implementation of a website based on the WordPress system (e.g., corporate site, blog, simple online shop).		
Work placement	Not applicable		

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