

## Subject card

0.1: (	Drogramming of Internet Applications, DC 00044402							
Subject name and code	Programming of Internet Applications, PG_00044103							
Field of study	Automation, Robotics and Control Systems							
Date of commencement of studies	February 2023		Academic year of realisation of subject			2023/2024		
Education level	second-cycle studies		Subject group					
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			3.0		
Learning profile	general academic profile		Assessment form			assessment		
Conducting unit	Department of Control Engineering -> Faculty of Electrical and Control Engineering							
Name and surname	Subject supervisor dr inż. Andrzej Kopczyński							
of lecturer (lecturers)	Teachers							
Lesson types and methods	Lesson type	• • • • • • • • • • • • • • • • • • • •		Laboratory Projec		t	Seminar	SUM
of instruction	Number of study hours	15.0	0.0	15.0	0.0		0.0	30
	E-learning hours inclu	uded: 0.0						
Learning activity and number of study hours	Learning activity	Participation in classes include plan		Participation in consultation hours		Self-study		SUM
	Number of study hours	30		10.0		35.0		75
Subject objectives	HTML5. Designing the visual layer of web applications - CSS styles (Bootstrap framework, dynamic language of LESS and SASS stylesheets). Practical use of JavaScript - jQuery library. Object document model DOM (Document Object Model). Programming of information systems working in the environment of the Internet network using the PHP language in the object version. Relational databases. Laravel - framework PHP.							
Learning outcomes	Course outcome		Subject outcome			Method of verification		
			The student uses general principles of project implementation - from the analysis phase, through design, to the programming phase. Uses HTML, CSS, PHP and database languages at work. The student uses general principles of project implementation - from the analysis phase through the design phase to the programming phase. Student uses HTML, CSS, PHP and database languages at work. Student designs and creates internet applications using databases. It appropriately combines technologies available on the client side (XHTML, DOM, Java Script) with programming on the server side (PHP, SQL).			[SU4] Assessment of ability to use methods and tools [SU2] Assessment of ability to analyse information		
	K7_U03		presentation and present the effects of his or her work. The student can justify the solutions used during the task.			[SU5] Assessment of ability to present the results of task [SU3] Assessment of ability to use knowledge gained from the subject [SU1] Assessment of task fulfilment		
Subject contents	Hypertext markup language - HTML. Designing the visual layer of web applications based on the Bootstrap framework. Css preprocessors. Programming of information systems working in the Internet environment using the PHP language. Relational databases and programming using the SQL language. Git - version control system.							
Prerequisites and co-requisites	Basic programming s	kills in the follo	wing language	s: HTML, CSS	PHP.			

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Assessment methods	Subject passing criteria	Passing threshold	Percentage of the final grade			
and criteria	Practical project	50.0%	60.0%			
	Theoretical test	50.0%	40.0%			
Recommended reading	Basic literature	<ol> <li>M. Lis, PHP7. Praktyczny kurs, Helion 2017</li> <li>W. Gajda, Git -rozproszony system kotroli wersji, Helion 2013</li> <li>T. Matula, Laravel. Tworzenie aplikacji. Receptury, Helion 2015</li> <li>R. Saunier, Laravel 4. Podstawy tworzenia aplikacji w PHP, Helion 2015</li> <li>L.Welling, L.Thomson, PHP and MySQL Web Development</li> <li>K. Tatroe, Programming PHP: Creating Dynamic Web Pages</li> </ol>				
	Supplementary literature	<ol> <li>J. Duckett, JavaScript i jQuery. Interaktywne strony WWW dla każdego, Helion 2015</li> <li>J.Lockhart, Modern PHP: New Features and Good Practices, O'Reilly Media; 1st edition (March 31, 2015)</li> </ol>				
	eResources addresses	Adresy na platformie eNauczanie:				
Example issues/ example questions/ tasks being completed	The definition of a rule in CSS.     Assumptions of MVC architecture.     Cascading in CSS.     The access specifiers in PHP.     The advantages of the Git system.					
Work placement	Not applicable					

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