

Subject card

Subject name and code	Web Applications Development, PG_00178698						
Field of study	Informatics and Econometrics						
Date of commencement of studies	October 2025		Academic year of realisation of subject		2025/2026		
Education level	Bachelor's studies		Subject group		Obligatory subject group in the field of study 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	1		Language of instruction		Polish		
Semester of study	2		ECTS credits		5.0		
Learning profile	academic		Assessment form		credit		
Conducting unit							
Name and surname of lecturer (lecturers)	Subject supervisor		dr Sławomir Radomski				
	Teachers		dr Sławomir Radomski				
Lesson types	Lesson type	Lecture	Tutorial	Laboratory	Project	Seminar	SUM
	Number of study hours	8.0	0.0	24.0	0.0	0.0	32
	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	32		2.0		91.0	125
Subject objectives	1. Familiarizing students with the syntax of HTML. 2. Familiarizing students with the changes introduced in HTML 5. 3. Familiarizing students with CSS technology. 4. Familiarizing students with the RWD concept of responsive websites. 5. Familiarizing students with Flexbox and Grid. 6. Familiarizing students with Bootstrap technology. 7. Practical skills in using HTML, CSS, RWD, Flexbox, Grid and Bootstrap technologies in sample projects.						

Learning outcomes	Course outcome	Subject outcome	Method of verification
	[IiIEL3_W06] To an advanced degree, the student knows and understands the processes and methods of creating, developing, and providing appropriate conditions for using informatics or statistics tools, particularly those that improve human and organizational functioning.	The student at an advanced level knows and understands the processes and methods of creating, developing and ensuring appropriate conditions for the use of IT tools, in particular those that improve the functioning of people and organizations. For this purpose, he uses HTML, CSS, RWD, Flexbox, Grid and Bootstrap technologies.	[SW4] test/exam - oral or written [SW2] presentation/project/paper/report
	[IiIEL3_U02] Students can select or construct econometrics, informatics or statistics tools and apply them to describe and solve economic and social problems.	The student is able to select or construct IT tools and use them to describe and solve economic and social problems using HTML, CSS, RWD and Bootstrap.	[SU2] presentation/project/paper/report [SU5] implementation of a problem task
	[IiIEL3_U12] The student can design and implement IT systems to enhance business operations and effectively utilize modern ICT technologies for management and business communication.	The student is able to design and implement IT systems supporting enterprise operations and use modern technologies: such as HTML, CSS, RWD, Flexbox, Grid and Bootstrap.	[SU2] presentation/project/paper/report [SU5] implementation of a problem task
Subject contents	1. Introduction to HTML5: HTML basics, tags and attributes, Key principles, HTML5 document structure, HTML5 language elements. 2. Cascading Style Sheets (CSS) in web design: introduction to CSS; selectors, styling forms; comments, margins; element borders; element images and background colors; using classes, naming; absolute and relative positions. 3. Responsive Web Design (RWD) - Designing flexible websites in HTML5 and CSS3: Introduction to RWD, .container, @media; responsive navigation; introduction to flexbox; introduction to Grid. 4. Responsive websites using the Bootstrap framework: introduction to the Bootstrap framework; grid system for Bootstrap; text elements, tables, lists, buttons, forms in bootstrap; navigation, labels and alerts in bootstrap.		
Prerequisites and co-requisites	Basic knowledge of how the Internet works and how tags are interpreted by web browsers, and knowledge of operating systems.		
Assessment methods and criteria	Subject passing criteria	Passing threshold	Percentage of the final grade
	knowledge test	50.0%	30.0%
	work in class	50.0%	30.0%
	project	50.0%	40.0%
Recommended reading	Basic literature	Robbins J., Projektowanie stron internetowych. Przewodnik dla początkujących webmasterów po HTML5, CSS3 i grafice, Helion 2020 Lemay L., Colburn R., Kyrnin J., HTML, CSS i JavaScript dla każdego, Helion, 2017 Hudson C., Leadbetter T., HTML5. Podręcznik programisty, Helion, 2013 Frain B., Responsive Web Design. Projektowanie elastycznych witryn w HTML5 i CSS3, Helion, 2018	
	Supplementary literature	Wrycza S., J. Maślankowski (red.), Informatyka Ekonomiczna, PWN, 2019	
	eResources addresses		
	Example issues/ example questions/ tasks being completed		
Work placement	Not applicable		

Document generated electronically. Does not require a seal or signature.