



COURSE SPECIFICATION

Course code	full-time studies	Z-ZB-E-304
	part-time studies	-
Course title in English	Internet technologies	
Course title in Polish	Technologie internetowe	
Valid from academic year	2025/2026	

PLACEMENT IN THE TEACHING PROGRAM

Programme of study	BUSINESS MANAGMENT
Level of education	1st degree
Studies profile	academic
Form and mode of study	full-time programme
Scope	all
Academic unit responsible for the course	Department of Information Technology
Course coordinator	dr eng. Damian Krzesimowski
Approved by	dr hab. inż. Dariusz Bojczuk, prof. uczelni

GENERAL CHARACTERISTIC OF THE COURSE

Teaching block	Subject of general education	
Course status	Obligatory	
Language of instruction	English	
Semester of delivery	full-time studies	Semester III
	part-time-studies	-
Prerequisites	Basics of information technologies	
Exam (YES/NO)	NO	
ECTS	2	

Method of conducting classes		lecture	classes	laboratory	project	other
Number of hours per semester	full-time	15		15		
	part-time					



LEARNING OUTCOMES

Category	Outcome code	Course learning outcomes	Reference to the directional learning effect
Knowledge	W01	The student has knowledge of the most important, modern technologies and standards used in the Internet.	ZB1_W09
	W02	The student has knowledge of creating websites in HTML5 and formatting their appearance using CSS3.	ZB1_W09
	W03	The student has knowledge of creating websites using the selected CMS content management system.	ZB1_W09
Skills	U01	The student can independently write a simple website in HTML5 and format its appearance using CSS3 cascading style sheets.	ZB1_U05 ZB1_U06
	U02	The student is able to independently create a semi-professional website using a selected CMS content management system and publish it on the Internet.	ZB1_U05 ZB1_U06
Social competences	K01	The student is able to work independently and in a group.	ZB1_K03
	K02	The student understands the need to continuously update knowledge in the field of Internet technologies.	ZB1_K02
	K03	The student understands that the Internet and the services it provides play a very important role in the modern world, allowing for the provision and acquisition of information on a selected subject area.	ZB1_K02

COURSE CONTENT

Method of conducting classes	Course content
lecture	1. History of the Internet development. OSI layered model. TCP/IP protocol stack. IP addressing. Application protocols. WWW system. HTTP protocol. 2. SGML standard. Framework structure of WWW document. The essence of using cascading style sheets. Selectors. Cascading. XHTML and HTML5. 3. Technologies for creating Internet applications. Page rendering. DOM tree. Methods of accessing e-mail. Sending and receiving e-mails. 4. Structure of search results for a phrase on the Internet. Search Engine Marketing. Benefits of high positioning of a WWW page. Parameters of indexing robots. Myths about positioning pages. Tips for preparing a WWW page to cooperate with indexing robots. 5. The concept of usability and ergonomics of WWW pages. Elements of usability. Accessibility of a WWW page. Structure of a WWW page. Usability errors. Elements of ergonomic design. Typography. 6. Basic concepts of computer networks. Units of digital data transmission. Topologies of computer networks. Ethernet standard. Data transmission scheme in Ethernet networks.
laboratory	1. Basics of HTML5. Reminder and deepening knowledge of selected elements. 2. Designing the structure of a document in HTML5. Selected elements of CSS3 cascading style sheets. 3. Detailed formatting of the appearance of a website using CSS3 cascading style sheets. Preparation of the concept of your own website. 4. Creation of a project of your own website using HTML5 and CSS3. 5. Familiarization with the selected CMS content management system. Development of an example WWW page. 6. Development of a project of a practical website with the possibility of publishing it on the Internet - implementation of exercise tasks and completion of individual tasks.



METHODS FOR VERIFYING LEARNING OUTCOMES

Outcome code	Learning outcomes verification methods					
	Oral examination	Written examination	Test	Project	Report	Other
W01			X			
W02			X			
W03			X			
U01			X			
U02			X			
K01						X
K02						X
K03						X

FORM AND CONDITIONS OF ASSESSMENT

Form of classes	Assessment type	Assessment Criteria
lecture	Credit with grade	Obtaining at least 50% points on the final test.
laboratory	Credit with grade	Obtaining at least 50% of the points in tests during classes.

STUDENT WORKLOAD

ECTS Balance							
No.	Activity type	Student workload					Unit
		full-time					
1.	Scheduled contact hours	W	C	L	P	S	h
		15		15			
2.	Other (consultations, exams)	2		2			h
3.	Total number of contact hours	34					h
4.	Number of ECTS credits for contact hours	1,4					ECTS
5.	Number of hours of independent student work	16					h
6.	Number of ECTS points that a student obtains through independent work	0,6					ECTS
7.	Workload related to practical classes	25					h
8.	Number of ECTS credit points which a student receives for practical classes	1,0					ECTS
9.	Total number of hours of a student's work	50					
10.	ECTS credits for the course <i>1 1 ECTS credit =25 student learning hours</i>	2					ECTS

W - LECTURE C - CLASSES L - LABORATORY P- PROJECT S - SEMINAR



READING LIST

1. Danowski B. (2012), Tablice informatyczne. CSS3, Helion, Gliwice..
2. MacDonald M. (2012), HTML5: Nieoficjalny podręcznik, Helion, Gliwice.
3. Mazur D. (2015), HTML5 i CSS3. Definicja nowoczesności, Wydawnictwo Naukowe PWN SA, Warszawa.
4. Gajda W. (2013), HTML5 i CSS3. Praktyczne projekty, Helion, Gliwice.
5. HTML(5) Tutorial, <http://www.w3schools.com/html>.
6. HTML and CSS course, <http://webmaster.helion.pl>.
7. HTML5 course, <http://how2html.pl>.