

COURSE SPECIFICATION

Course code	full-time studies	Z-ZB-E-506b		
	part-time studies	-		
Course title in English	Digital security			
Course title in Polish	Bezpieczeństwo cyfrowe			
Valid from academic year	2025/2026			

PLACEMENT IN THE TEACHING PROGRAM

Programme of study	BUSINESS MANAGAMENT
Level of education	1 st degree
Studies profile	academic
Form and mode of study	full-time programme
Scope	e-commerce
Academic unit responsible for the course	Department of Management and Organization
Course coordinator	mgr inż. Artur Tusień
Approved by	dr hab. inż. Dariusz Bojczuk, prof. uczelni

GENERAL CHARACTERISTIC OF THE COURSE

Teaching block		Specialist subject
Course status		Obligatory
Language of instruction		English
Semester of delivery	full-time studies	Semester V
	part-time-studies	-
Prerequisites		The Fundamentals of Computer Science
Exam (YES/NO)		NO
ECTS		1

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



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LEARNING OUTCOMES

Category Outcome code		Course learning outcomes	Reference to the directional learning effect
	W01	The student has knowledge of secure storage, infor- mation and data processing, data control and data priva- cy.	ZB1_W03 ZB1_W08
	W02	The student has knowledge of how to recognize mal- ware threats and how to effectively protect against them.	ZB1_W03 ZB1_W08
Knowledge	W03	The student has knowledge of how to protect computer networks, how to protect the computer and devices working in the network.	ZB1_W03 ZB1_W08
	W04 The student has knowledge of security issues when w04 using password, email, social networks, VoIP telephony, instant messaging and mobile devices.		ZB1_W03 ZB1_W08
	U01	The student is skilled in recognizing security risks in terms of identity theft, threats to data from online use, including cloud computing.	ZB1_U05 ZB1_U10
Skills	U02	The student is skilled in identifying malware attacks.	ZB1_U05 ZB1_U10
JKIIIS	U03	The student has the ability to use web browsers and their settings securely, to confirm the identity of websites and to use online web services securely.	ZB1_U05 ZB1_U10
	U04	The student is skilled at archiving and restoring files locally and in the cloud and permanently deleting data.	ZB1_U05 ZB1_U10
Social	K01	The student is aware of environmental protection measures in terms of energy management and conser- vation and of the impact of information technology on the environment.	ZB1_K05
competences	K02	The student knows the rules of netiquette and correct behaviour when using social networks and group work online.	ZB1_K03

COURSE CONTENT

Method of conducting classes	Course content
lecture	Security: threats to data, value of information, personal security, file security. Malware: types of malware and methods of malware, malware protection, malware troubleshooting and methods of malware removal. Network security and network connections, wireless networks. Access control: methods of access control, password management. Security in the use of web technology: web browser settings, security-free browsing of web resources, Communication: use of e-mail (including encryption), social networking, VoIP tech- nology, instant messaging, tele- and video-conferencing, mobile devices. Secure data management: data security and archiving, secure deletion and destruc- tion of data. Environmental protection: energy saving, awareness of the environmental impact of computing technologies. The programme content is in line with the international ECDL - IT Security certificate. At the end of the training the student is prepared to obtain the above mentioned cer- tificate.



METHODS FOR VERIFYING LEARNING OUTCOMES

Outcome code	Learning outcomes verification methods						
	Oral examination	Written examination	Test	Project	Report	Other	
W01			Х				
W02			Х				
W03			Х				
W04			Х				
U01			Х				
U02			Х				
U03			Х				
U04			Х				
K01						Х	
K02						Х	

FORM AND CONDITIONS OF ASSESSMENT

Form of classes Assessment type		Assessment Criteria					
lecture	Credit with grade	Passing at least 50 % of the semester colloquium.					

STUDENT WORKLOAD

	ECTS Balance						
No	No. Activity type -		Stude	Unit			
NO.			f	ull-time	e		
1.	1. Scheduled contact hours		С	L	Р	S	h
1.		15					
2.	Other (consultations, exams)	2					h
3.	Total number of contact hours		17		h		
4.	Number of ECTS credits for contact hours		0,7		ECTS		
5.	Number of hours of independent student work		8			h	
6.	Number of ECTS points that a student ob- tains through independent work		0,3			ECTS	
7.	Workload related to practical classes		0			h	
8.	Number of ECTS credit points which a student receives for practical classes	0,0			ECTS		
9.	Total number of hours of a student's work			25			
10.	ECTS credits for the course 1 1 ECTS credit =25 student learning hours	1			ECTS		

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



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READING LIST

- 1. Mazur D., Żarnowska Mazur, A., (2014), ECDL IT Security, wyd. PWN, Warszawa.
- 2. Javidi, B. (Ed.). (2005). Optical and digital techniques for information security (Vol. 1). Springer Science & Business Media.
- 3. Caputo, A. C. (2014). Digital video surveillance and security. Butterworth-Heinemann