

Subject card

Subject name and code	CYBERSECURITY MANAGEMENT, PG_00061382								
Field of study	Engineering Management								
Date of commencement of									
studies	Ociobel 2023		Academic year of realisation of subject			2025/2026			
Education level	first-cycle studies	first-cycle studies		Subject group			Optional subject group		
						Subject group related to scientific research in the field of study			
Mode of study	Full-time studies		Mode of delivery			at the university			
Year of study	3		Language of instruction			Polish			
Semester of study	6		ECTS credits			3.0			
Learning profile	general academic profile		Assessment form			assessment			
Conducting unit	Department Of Informatics In Management -> Faculty Of Management And Economics -> Wydziały Politechniki Gdańskiej					ziały			
Name and surname	Subject supervisor		dr hab. inż. Rafał Leszczyna						
of lecturer (lecturers)	Teachers		dr hab. inż. Rafał Leszczyna						
Lesson types and methods	Lesson type	Lecture	Tutorial	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	ided: 0.0				_			
Learning activity and number of study hours	Learning activity	Participation in classes include plan		Participation i consultation h	articipation in onsultation hours		udy	SUM	
	Number of study hours	30		6.0		39.0		75	
Subject objectives	Analyzes and critically assesses threats to cybersecurity of the company's IT resources, designing appropriate protection measures								
Learning outcomes	Course out	Subject outcome			Method of verification				
	[K6_U07] applies information technology to improve critical analysis and evaluation of data and management processes		critically assesses the problems of cybersecurity threats in the enterprise and defines appropriate protection measures			[SU3] Assessment of ability to use knowledge gained from the subject			
	[K6_W03] identifies reliable sources of information relevant to the analyzed issues		analyzes the enterprise and its IT resources, identifying cybersecurity threats			[SW1] Assessment of factual knowledge			
Subject contents	Basic concepts and concepts of cyber security Usable cybersecurity Cybersecurity management proces Cybersecurity risk management Cyber security threats Selected standards and guidelines for cybersecurity Security								
Prerequisites and co-requisites									
Assessment methods	Subject passing criteria		Passing threshold		Percentage of the final grade				
and criteria	Laboratory exercises		60.0%		50.0%				
	Active participation in the lecture		60.0%			5.0%			
	Knowledge test		60.0%			45.0%			
Recommended reading	Basic literature		ISO/IEC 27001:2017 NIST SP 800-53 Revision 5 Computer security handbook, edited by Seymour Bosworth, M. E. Kabay and Eric Whyne. 6th ed. Wiley, 2014 Ross Anderson, Security Engineering Third Edition, https://www.cl.cam.ac.uk/~rja14/book.html David Kennedy, Jim OGorman, Devon Kearns, and Mati Aharoni, Metasploit: The Penetration Testers Guide, No Starch Press, 2011						

Data wygenerowania: 07.05.2025 18:11 Strona 1 z 2

	Supplementary literature	Stuart McClure, Joel Scambray, George Kurtz, Hacking Exposed: Network Security Secrets & Solutions, Osborne/McGraw-Hill, 2001 Matt Bishop, Introduction to Computer Security, Prentice Hall PTR 2004 Micki Krause, Harold F. Tipton, Information Security Management Handbook, Auerbach 2007 Steve Purser, A Practical Guide to Managing Information Security, Artech 2004 Matt Bishop, Computer Security: Art and Science, Addison Wesley 2002 ISO/IEC 15408 (Common Criteria) Sjaak Laan, IT Infrastructure Architecture Infrastructure Building Blocks and Concepts, Lulu Press Inc. 2017				
Example issues/ example questions/ tasks being completed	eResources addresses Adresy na platformie eNauczanie: Perform an enterprise analysis. Identify and describe its cyber resources Identify independent cybersecurity risk lists and develop your own cyberthreat list Estimate your cybersecurity risk Explain a systematic approach to enterprise cybersecurity management Choose a cybersecurity standard, justify your choice Give an example of a violation of the integrity of a cyber resource					
Work placement	Give an example of a security measure to reduce the risk of accounting data being copied by unautusers Provide and explain the formula for cybersecurity risk Point out and explain the most common strategies for dealing with cybersecurity threats Describe the basic features of access control					

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

Data wygenerowania: 07.05.2025 18:11 Strona 2 z 2