

## Subject card

Subject name and code	Cybersecurity Management, PG_00068299							
Field of study	Engineering Management							
Date of commencement of studies	October 2025		Academic year of realisation of subject			2027/2028		
Education level	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						działy	
Name and surname	Subject supervisor							
of lecturer (lecturers)	Teachers							
Lesson types and methods	Lesson type	Lecture	Tutorial	Laboratory	<del>                                     </del>		Seminar	SUM
of instruction	Number of study hours	15.0	0.0	30.0	0.0		0.0	45
	E-learning hours inclu	ided: 0.0	•		•		•	
Learning activity and number of study hours	Learning activity	Participation in classes include plan			Participation in onsultation hours		udy	SUM
	Number of study hours	45		5.0		25.0		75
Subject objectives	For a student to acqu	ire the fundame	ental knowledg	e on cybersecu	urity ma	nageme	ent in organis	ations.
Learning outcomes	Course outcome Subject outcome Method of verification							
	[K6_U06] acquires specialized knowledge in the field of engineering management, demonstrating the ability to effectively plan individual work and pursue lifelong learning.					[SU5] Assessment of ability to present the results of task [SU3] Assessment of ability to use knowledge gained from the subject		
	[K6_W03] knows reliable sources of information and utilizes advanced knowledge to explain contemporary management issues.		is familiar with approaches and information sources that support understanding of key digital security challenges in organizations and can analyze their impact on modern management structures			[SW3] Assessment of knowledge contained in written work and projects		
	[K6_K01] is ready to fulfill professional roles responsibly, taking legal, ethical, and cultural aspects into account in decision-making processes.					[SK5] Assessment of ability to solve problems that arise in practice		
Subject contents	<ul> <li>Basic concepts, fundamentals of cybersecurity</li> <li>Usable cybersecurity</li> <li>Cybersecurity management process</li> <li>Cybersecurity risk management</li> <li>Cybersecurity threats</li> <li>Selected cybersecurity standards and guidelines</li> <li>Protection controls</li> </ul>							
Prerequisites and co-requisites	Communicative English							

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Assessment methods	Subject passing criteria	Passing threshold	Percentage of the final grade			
and criteria	knowledge examination	60.0%	45.0%			
	lab exercises	60.0%	50.0%			
	active participation in the course meetings	60.0%	5.0%			
Recommended reading	Basic literature  Supplementary literature	<ol> <li>ISO/IEC 27001:2017</li> <li>NIST SP 800-53 Revision 5</li> <li>Computer security handbook, ed Kabay and Eric Whyne. 6th ed. Noss Anderson, Security Engine www.cl.cam.ac.uk/~rja14/book.h</li> <li>David Kennedy, Jim OGorman, Metasploit: The Penetration Test</li> </ol>				
	eResources addresses	Adresy na platformie eNauczanie:				
Example issues/ example questions/ tasks being completed	<ol> <li>Analyse an enterprise. Identify and describe its cyberassets.</li> <li>Identify independent lists of cybersecurity threats and develop your proprietary list of cyberthreats.</li> <li>Calculate cybersecurity risks.</li> <li>Explain a systematic approach of cybersecurity management in an enterprise.</li> <li>Choose a cybersecurity standard, justify the choice.</li> <li>Provide an example of violating the integrity of a cyberasset.</li> <li>Provide an example of a security control to reduce the risk of copying accounting data by unauthorised users.</li> <li>Provide and explain the cybersecurity risk formula.</li> <li>Enlist and explain the most common cybersecurity risk treatment strategies.</li> <li>Describe principal characteristics of access control.</li> </ol>					
Work placement	Not applicable					

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