

Subject card

Subject name and code	Information Security Management, PG_00048285								
Field of study	Informatics								
Date of commencement of studies	February 2024		Academic year of realisation of subject			2024/2025			
Education level	second-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	2		Language of instruction			Polish			
Semester of study	3		ECTS credits			3.0			
Learning profile	general academic profile		Assessment form			assessment			
Conducting unit	Department of Software Engineering -> Faculty of Electronics, Telecommunications and Informatics						atics		
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	0.0	15.0		0.0	30	
	E-learning hours inclu			i		1			
Learning activity and number of study hours	Learning activity	Participation in classes include plan		Participation in consultation hours 6.0		Self-study		SUM	
	Number of study hours	30				39.0		75	
Subject objectives	The objective of this module is to develop understanding and to acquire knowledge related to information security and privacy issues from the perspective of system analyst								
Learning outcomes	Course outcome		Subject outcome			Method of verification			
	[K7_U02] can perform tasks related to the field of study as well as formulate and solve problems applying recent knowledge of physics and other areas of science		Student understands basic concepts related to security risk analysis and protectionagainst security threats and can use these concepts while analysing a concrete IT system			[SU2] Assessment of ability to analyse information [SU4] Assessment of ability to use methods and tools [SU5] Assessment of ability to present the results of task			
	[K7_W41] Knows and understands, to an increased extent, the standards, production methods, life cycle and development trends of software as well as information systems and applications.		Student understands the concept of security lifecycle and the need of process based approach to security assurance. He/she also has knowledge about the objectives and scope of main security related standards, in particular the standards of ISO 27000 and IEC 62443 series.			[SW2] Assessment of knowledge contained in presentation [SW3] Assessment of knowledge contained in written work and projects			
[K7_W43] Knows and understands, to an increased extent, the nformal, technical and social aspects of the operation of complex information systems in the information society and in the global information n infrastructure.		Student understands the nature of information security threats and privacy threats, understands the interrelationships between trust and security, usabolity and security and the tradeoffs between safety, security and privacy			[SW2] Assessment of knowledge contained in presentation [SW3] Assessment of knowledge contained in written work and projects				
Subject contents	1.Information assets and their importance 2. Information and information security 3. Trust and security 4. Usable security 5. Information assets classification and labelling 6. Security threats and vulnerabilities 7. Selected security risk management techniques 8.Information Security Management System (ISMS) 9. Selected security risk analysis techniques - attack trees 10. ISO/IEC 27001:2013 – scope, requirements and compliance assessment 11. Privacy management 12. Security vs Safety vs Privacy 13. Development of secure software 14. Security of Industrial Automation and Control Systems (IACS)								
Prerequisites and co-requisites	Previous participation in the module Requirements Engineering								

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Assessment methods	Subject passing criteria	Passing threshold	Percentage of the final grade		
and criteria	Activity/presence	10.0%	10.0%		
	Written exam	45.0%	45.0%		
	Project	45.0%	45.0%		
Recommended reading	Basic literature	1. Standard ISO/IEC 27001(http://minf.vub.ac.be/marc/medinf/iso-27001-2013.pdf) 2. Standardy IEC/ISA 62443 (http://isa99.isa.org/ISA99%20Wiki/WP_List.aspx) 3. Ross Anderson, Security Engineering 2-nd edition, Wiley 2008 (online: http://www.cl.cam.ac.uk/~rja14/book.html)			
	Supplementary literature	Standard NIST SP 800-53 (http://nvlpubs.nist.gov/nistpubs/ SpecialPublications/NIST.SP.800-53r4.pdf)			
	eResources addresses	Adresy na platformie eNauczanie:			
Example issues/ example questions/ tasks being completed					
Work placement	Not applicable				

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