

## Subject card

Subject name and code	Information Security Management, PG_00048285								
Field of study	Informatics								
Date of commencement of studies	February 2023		Academic year of realisation of subject			2023/2024			
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, Telecommunicatio				ons and Inform	atics			
Name and surname	Subject supervisor	dr hab. inż. Rafał Leszczyna							
of lecturer (lecturers)	dr hab. inż. Rafał Leszczyna dr inż. Andrzej Wardziński				1				
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	uded: 0.0							
Learning activity and number of study hours	Learning activity Participation in diclasses included i plan			Participation in consultation hours		Self-study SI		SUM	
	Number of study hours	30		6.0		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						fication		
	[K7_W43] Knows an understands, to an ir extent, the nformal, t social aspects of the complex information the information sociel global information n	ncreased echnical and operation of systems in ety and in the	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			[SW3] Assessment of knowledge contained in written work and projects [SW2] Assessment of knowledge contained in presentation			
	methods, life cycle and		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.			[SW3] Assessment of knowledge contained in written work and projects [SW2] Assessment of knowledge contained in presentation			
	[K7_U02] can perforn related to the field of as formulate and soluphysics and other are	study as well ve problems wledge of	s well concepts related to security risk analysis and protectionagainst security threats and can use these			[SU5] Assessment of ability to present the results of task [SU4] Assessment of ability to use methods and tools [SU2] Assessment of ability to analyse information			
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 Managment 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								

Data wydruku: 03.05.2024 08:09 Strona 1 z 2

Assessment methods	Subject passing criteria	Passing threshold	Percentage of the final grade		
and criteria	Project	45.0%	45.0%		
	Written exam	45.0%	45.0%		
	Activity/presence	10.0%	10.0%		
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	1. Standard NIST SP 800-53 (http://nvlpubs.nist.gov/nistpubs/ SpecialPublications/NIST.SP.800-53r4.pdf)			
	eResources addresses	Adresy na platformie eNauczanie:			
		Zarządzanie bezpieczeństwem informacji - specjalność ISI -2024 - Moodle ID: 35301 https://enauczanie.pg.edu.pl/moodle/course/view.php?id=35301			
Example issues/ example questions/ tasks being completed					
Work placement	Not applicable				

Data wydruku: 03.05.2024 08:09 Strona 2 z 2