

WSB University				
Field of study: National security				
Course: Information Systems Security				
Educational profile: PRACTICAL				
Education level: second-cycle studies				
Number of hours per semester	1		2	
	I	II	III	IV
Full -time studies (L/C/lab/pr/e)				24 C
Part-time studies (L/C/lab/pr/e)				
LECTURER	dr inż. Krystian Mączka			
FORM	Classes			
COURSE OBJECTIVES	To familiarize students with comprehensive issues in the field of security and continuity of operation of modern information systems.			
Reference to learning outcomes		Description of learning outcomes		Method of verification of learning outcomes
Field-related learning outcome	PQF			
KNOWLEDGE				
BN2_W01	P7S_WG	The student understands the issues of ICT security and continuity of operation of information systems.		discussion and questions during classes, knowledge test to obtain credit
SKILLS				
BN2_U06	P7S_UK	The student demonstrates the ability to apply knowledge in this area, in particular by developing a solution to the problem.		discussion during problem tasks in classes; assessment of skills during the analysis of individual content related to the problem presented during the lecture
SOCIAL COMPETENCES				
BN2_K01	P7S_KK	The student is aware of the importance of security and the continuity of information systems.		assessing the student's attitudes while analyzing and solving specific practical problems during the lecture.
Students' own workload (1h teaching hour=45 minutes)**				
Full-time participation in lectures = participation in classes = 24h preparation for classes = 23h preparation for lectures/tutorial = preparation for an end-of-term test/examination = 24h project tasks = e-learning = credit/examination = 2h other (tutorials) = 4 Total:79 ECTS points: 3 Including practical skills:			Part-time participation in lectures = participation in classes = preparation for classes = preparation for lectures/tutorials = preparation for an end-of-term test//examination = project tasks = e-learning = credit/examination = other (tutorials) = Total: ECTS points: Including practical skills:	
PREREQUISITES	Knowledge of issues from the basics of computer science and the basics of computer networks.			

COURSE CONTENT	<p>Contact hours:</p> <ol style="list-style-type: none"> 1. Basic concepts. Security of information. Security attributes. 2. Cryptographic algorithms 3. Authentication of information systems users. 4. Security and continuity of information systems: case studies. 5. Summary. <p>E-learning: —</p>
LITERATURE	<ol style="list-style-type: none"> 1. D. Kim, Fundamentals of Information Systems Security, Jones & Bartlett Learning; 3rd edition (October 26, 2016). 2. D. Gibson , A. Igonor, Managing Risk in Information Systems (Information Systems Security & Assurance), Zones & Bartlett Learning; 3rd edition (November 20, 2020),
OPTIONAL LITERATURE	<ol style="list-style-type: none"> 1. G. L. Kovacich, The Information Systems Security Officer's Guide: Establishing and Managing a Cyber Security Program 3rd Edition, Butterworth-Heinemann; 3rd edition (February 15, 2016) 2. D. Kim, M. G. Solomon, Fundamentals of Information Systems Security, Jones & Bartlett Learning; 3rd edition, 2016.
TEACHING METHODS	<p>Contact hours:</p> <p>Introductory talk, brainstorming, Live show. Case studies.</p> <p>E-learning: —</p>
TEACHING AIDS	Software supporting the presentation of ICT security solutions.
PROJECT	Not applicable
FORM AND CONDITIONS OF ASSESSMENT	Credit with a grade

* L-lecture, C- classes lab- laboratory, pr- project, e- e-learning