BANKU AUGSTSKOLA

DESCRIPTION OF STUDY COURSE

Course unit title	**Cybersecurity and Critical Infrastructure Protection**
Programme	MBA in Cybersecurity Management
Year of study	**1.,2.**
Academic year	2022/2023
Level of course unit (e.g. first, second or third cycle)	2nd cycle
Course unit code	MKP010
Name of lecturer(s)	Dr. Nikos Komninos, Valdis Berziņš, Andris Ambults, N.Komninoss
Number of ECTS credits allocated	6 ECTS *2 Latvian credit points are multiplied by 1,5 to get ECTS credit points*
Credit points	4CP
Module	Cybersecurity
Language of instruction	English and Latvian
Type of course unit (compulsory, optional)	compulsory
Semester when the course unit is delivered	2., 4.
Mode of delivery	face-to-face
Aim of Course	to use and develop industry-related knowledge and skills in Critical Infrastructure Protection
Preliminary knowledge (prerequisites and co-requisites)	
Course content	Cybersecurity science concepts and aspects; Critical Infrastructure taxonomy; critical infrastructure strategies, standards, and policy analysis; Smart cities, IOE.
Planned learning activities and teaching methods	The student attends lectures, completes practical work, presents group and individual work. The total evaluation of the course consists of: 30% group work in classroom setting; 20% practical work in classroom setting;20% group work completion and presentation; 30% individual work completion and presentation.
Learning outcomes of the course unit	The student: 1. understands security requirements fro CIP; 2. is able to implement appropriate security controls; 3. is able to resolve CIP security issues.

Table within "Planned learning activities and teaching methods":

Teaching methods	Student workload
Lecture	48
Written group work	24
Seminars	48
Independent work/ work on a presentation	72
Work at the library, independent studies	48
total hours	240

Assessment methods and criteria	Learning outcomes The form of assessment	1.	2.	3.
	Written work in a classroom	●	●	
	Independent work and its presentation	●	●	●
	Written examination	●	●	●
Recommended or required reading	Science of Cyber-Security - http://www.fas.org/irp/agency/dod/jason/cyber.pdf Cybersecurity and Cyberpower: concepts, conditions and capabilities for cooperation - http://www.europarl.europa.eu/RegData/etudes/etudes/join/2011/433828/EXPO-SEDE_ET%282011%29433828_EN.pdf Critical Infrastructure Protection standart family - http://www.nerc.com/pa/Stand/Pages/CIPStandards.aspx CIP-003-5 — Cyber Security — Security Management Controls: - http://www.nerc.com/_layouts/PrintStandard.aspx?standardnumber=CIP-003-5&title=Cyber%20Security%20-%20Security%20Management%20Controls&jurisdiction=null NIST Releases Cybersecurity Framework Version 1.0 - http://www.nist.gov/itl/csd/launch-cybersecurity-framework-021214.cfm National Cyber Security Strategies - http://www.gns.gov.pt/media/1238/ENISANationalCyberSecurityStrategies.pdf http://policyreview.info/articles/analysis/europe%E2%80%99s-fragmented-approach-towards-cyber-security http://www.isaca.org/Knowledge-Center/Research/Pages/Cybersecurity.aspx http://www.isaca.org/Knowledge-Center/Research/Pages/Privacy.aspx			
Recommended optional programme components	To be agreed at the start of the course.			