DESCRIPTION OF STUDY COURSE

Course unit title	Cybercrime Investigations	Cybercrime Investigations			
Programme	MBA in Cybersecurity Management				
Year of study	1.,2.				
Academic year	2022/2023				
Level of course unit (e.g.	2nd cycle				
first, second or third					
cycle)					
Course unit code	MKP011				
Name of lecturer(s)	Arnis Paršovs, Dr. Bruno Martužāns				
Number of ECTS credits	6 ECTS				
allocated	2 Latvian credit points are multiplied by 1,5 to get ECTS credit points				
Credit points	4CP				
Module	Technical				
Language of instruction	English and Latvian				
Type of course unit	compulsory				
(compulsory, optional)					
Semester when the course	2., 4.				
unit is delivered					
Mode of delivery	face-to-face				
Aim of Course	to develop knowledge, skills and practises about cyber-crimes, principles and				
	practices to the collection, preservation, examination, analysis and				
	presentation of digital evidence.				
Preliminary knowledge					
(prerequisites and co- requisites)					
Course content	Investigations forensics: cyber criminals history: r	andomness hash functions			
Course content	Investigations, forensics; cyber criminals history; randomness, hash functions, symmetric and asymmetric cryptography, encryption, authentication methods,				
	secure private key storage, digital signatures.				
Planned learning activities	The student attends lectures, completes practical work, presents group and				
and teaching	individual work.				
methods	The total evaluation of the course consists of: 309	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.			
	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			
Learning outcomes of the	The student:				
course unit	1. understands different practices to the collection of digital evidence;				
	2. is able to implement appropriate security controls;				
	3. is able to handling the incident.				

Assessment methods and	Learning outcomes				
criteria		1.	2.	3.	
	The form of assessment				
	Written work in a classroom	•	•		
	Independent work and its				
	presentation	•	•	•	
	Written examination	•	•	•	
Recommended or required reading	Written examinationNaval Postgraduate School: CyberCiege: "Cryptography Basics"http://www.cisr.us/cyberciege/movies/07CIEGE.htmlGary C. Kessler's An Overview of Cryptographyhttp://www.garykessler.net/library/crypto.html#pkchttp://www.garykessler.net/library/crypto.html#pkchttp://www.cl.cam.ac.uk/~rja14/book.htmlIntrusion Detection with SNORT: Advanced IDS Techniques Using SNORT, Apache,MySQL, PHP, and ACID Rafeeq Ur Rehman 2003Snort IDS and IPS Toolkit (Jay Beale's Open Source Security) Brian Caswell, Jay Beale,Andrew Baker 2007The Cyber-crime Science http://www.news.appstate.edu/2014/02/04/cyber-crime/New US Cybersecurity Framework Developed by NIST Features COBIT 5 in the Core -http://www.isaca.org/About-ISACA/Press-room/News-Releases/2014/Pages/New-US-Cybersecurity-Framework-Developed-by-NIST-Features-COBIT-5-in-the-Core.aspxhttp://www.isaca.org/Knowledge-Center/Research/Pages/Privacy.aspx				
Recommended optional	To be agreed at the start of the	e course.			
programme components					