

Specification for the book of courses

Study program		Computing and Informatics		
Module		Computer Systems Security		
Type and level of studies		Master studies		
The name of the course		Digital Forensics		
Lecturer (for lectures)		Rančić D. Dejan, Predić B. Bratislav		
Lecturer/associate (for exercises)		Predić B. Bratislav		
Lecturer/associate (for OFE)				
Number of ECTS	4	Course status (obligatory/elective)	Elective	
Prerequisites				
Course objectives				
Introduction to the process of identification, preservation and analysis of digital evidence, as well as preparing them for presentation in a court of proper forensic procedure on the correct way.				
Course outcomes				
Theoretical and practical knowledge of the process of identification, preservation and analysis of digital evidence. Knowledge of software and hardware tools for digital forensics. Knowledge of the legal components of digital forensics. Knowledge of basic principles, policies and methodologies of digital forensics.				
Course outline				
Theoretical teaching				
Identification, preservation and analysis of digital evidence. Basic principles, policies and methodologies of digital forensics. The legal component of digital forensics. Preparation and presentation of digital evidence in court in a proper procedure in forensic properly. Recover lost data. Password cracking and decryption of data. Forensics software. Forensics of operating system and file system. Forensics of digital devices. Network forensics. Forensics of mobile devices. Software and hardware tools for digital forensics (EnCase, Toolkit - FTK, VMware, ...).				
Practical teaching (exercises, OFE, study and research)				
Getting to know the software and hardware tools for digital forensics				
Textbooks/references				
1	Kanellis, Panagiotis. Digital crime and forensic science in cyberspace. IGI Publishing , 2008.			
2	Jones, Andrew. Building a Digital Forensic Laboratory. Butterworth-Heinemann, 2008.			
3				
4				
5				
Number of classes of active education per week during semester/trimester/year				
Lectures	Exercises	OFE	Study and research work	Other classes
2	1	0		
Teaching methods				
Lectures, exercises, individual student work on projects.				
Grade (maximum number of points 100)				
Pre-exam duties	Points	Final exam	Points	
Activity during lectures	10	Written exam		
Exercises	50	Oral exam	40	
Colloquia				
Projects				