



KAMK • University
of Applied Sciences

Course 3: Practical aspects of Cyber security

Course description

Practical aspects of Cyber security
5 ECTS
Grading: 1-5
Language: English

Cyber Security is an increasing concern as we live in a digital world. The internet and usage of cloud services for storing personal information and sensitive data is on the rise. The heavy usage of internet and cloud services make us vulnerable to different types of attacks, privacy issues and cybercrimes. Cyber security has become a vital part of a secure digital world.

Course 3 covers the practical aspects of Cyber security. It includes lectures and practical tasks on sniffing, Cisco packet tracer, categorization of cyber security threats, CISSP security management, penetration testing, incident response, digital forensics and capturing and analysing traffic with Wireshark.

Learning outcomes:

1. An introduction to packet tracer to develop your skill set in networking and cybersecurity (Cisco academy -course access and materials)
2. Learning the process of capturing and analysing network traffic using Wire-shark.
3. Understanding what penetration testing is, incident response and digital forensics.
4. Getting familiar with different techniques for categorizing and prioritizing threats.
5. Understanding what CISSP risk management is.

Course contents:

Introduction to Cisco Packet Tracer
Web Application Security Risks
Prioritizing Security Threats
CISSP Risk Management
Penetration Testing
Incident Response
Digital Forensics
Analysing Traffic with Wireshark