



KAMK • University
of Applied Sciences

Course 2: Cyber security essentials

Course description

Cyber security essentials
5 ECTS
Grading: 1-5
Language: Finnish or English

Cyber security threats are constantly present in today's world. Network infrastructure is vulnerable to various cyber attacks. This course contains essential information about the cyber world focusing especially on the servers and networks.

Learning outcomes:

1. Brute Force
2. Setting up a secure server
3. Setting up a web site with certificates
4. Testing WLAN-network's vulnerability
5. Honeypot
6. Wireshark and insecure website

Course contents:

A world of Experts and Criminals
The Cyber security Cube
Cyber security threats, vulnerabilities and attacks
The Art of Protecting secrets
The art of ensuring integrity
The five nines concept
Protecting a cyber security domain
Becoming a cyber security specialist

