



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

