

ECTS credits
6

**1. Course name**

Computer Networks

**2. Course description**

Lecture

Design of local computer networks:  
cabling systems,  
devices,  
Ethernet,  
VLAN.

Examples of software and hardware solutions.

Wireless networks.

Advanced methods of network design..

**3. Learning outcomes**

Students can classify computer networks. Students can design a computer network including: initial analysis, selection of technology, devices and cables, IP configuration, security mechanisms.

**4. Education Methods:** multimedia presentation, computer activities

**5. Course structure**

Form	Number of hours	Semester
Lecture	15	Winter/Summer
Classes		
Laboratory	15	Winter/Summer
Project		
Seminar		
Total student's workload	150	

**6. Assessment methods:**

Project, documentation

**7. Language:**

English