**DESCRIPTION OF A STUDY COURSE – SYLLABUS**

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **Title of a course** | **Internet Communication** | | | | |
| **Study programme** | **Professional undergraduate study Telematics** | | | | |
| **Status of a course** | Obligatory | | | | |
| **Year of study** | 1 | **Semester** | W | **ECTS credits** | 5 |
| **Goals of a course** | | | | | |
| Acquire competencies for establishing wired and wireless computer networks, DHCP, DNS, WEB, FTP and E-mail server network services, and remote work systems. | | | | | |
| **Conditions for enrolling course** | | | | | |
| No conditions | | | | | |
| **Expected learning outcomes on a level of a course** | | | | | |
| 1. Establish a wired and wireless local area network with static and dynamic IP addresses connected to the Internet 2. Establish DHCP and DNS server network services 3. Establish WEB, FTP and E-mail server network services 4. Establish a system for remote work | | | | | |
| **Content of a course** | | | | | |
| ISO/OSI model; layers of TCP/IP model; construction of TCP/IP packages; network layer and IP addressing; Ipv4 and Ipv6; network routers and gateways; TCP/IP transport layer protocols – TCP and UDP; ports and network sockets; application layer in TCP/IP model – operating of services and protocols: telnet, ftp, e-mail, NNTP, chat, HTTP; WWW - HTML, CSS, Java Script, CGI, Perl. | | | | | |