**DESCRIPTION OF A STUDY COURSE – SYLLABUS**

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| **Title of a course** | **Communication Technique** | | | | |
| **Study programme** | **Professional undergraduate study Telematics** | | | | |
| **Status of a course** | Obligatory | | | | |
| **Year of study** | 1 | **Semester** | S | **ECTS credits** | 5 |
| **Goals of a course** | | | | | |
| Adopt basic concepts related to modern communication networks. Gain basic knowledge of network management and maintenance, and the basics of structural cabling and configuration of advanced network devices. | | | | | |
| **Conditions for enrolling course** | | | | | |
| No conditions | | | | | |
| **Expected learning outcomes on a level of a course** | | | | | |
| 1. Explain network and network hardware functions within OSI and TCP/IP models 2. Explain and apply the standards of modern communications networks 3. Explain routing technology and techniques in IP networks 4. Explain and apply common transport, network, and application layer protocols 5. Describe and configure advanced network devices and services, and explain access network technologies | | | | | |
| **Content of a course** | | | | | |
| Basics of digital communication; available infrastructures (LAN; WAN, Wireless and other); Models of communication; Open systems communication; ISO / OSI reference models; Seven layers; Layers 1-3 exemplary (LAN, ISDN, ATM); Transfer media; Economy in stratification; Network application. Client- Server Interaction; electronic mail; Data transfer and data retrieval; Network management, Network security; Systems of telecommunication, telephone, fax. | | | | | |