

## DESCRIPTION OF A STUDY COURSE – SYLLABUS

<b>Title of a course</b>	<b>Computer Networks</b>				
<b>Study programme</b>	<b>Professional undergraduate study Information Science</b>				
<b>Status of a course</b>	Obligatory				
<b>Year of study</b>	2	<b>Semester (Winter/Summer)</b>	S	<b>ECTS credits</b>	5
<b>Goals of a course</b>					
Acquire competencies for establishing wired and wireless computer networks, DHCP, DNS, WEB, FTP and E-mail server network services, and remote work systems.					
<b>Conditions for enrolling course</b>					
No conditions					
<b>Learning outcomes on a level of a study programme which includes course</b>					
Outcome 3: Establish a computer network and network services. Outcome 12: Apply engineering methods and principles in information science. Outcome 14: Participate in teamwork.					
<b>Expected learning outcomes on a level of a course</b>					
<ol style="list-style-type: none"> <li>1. Establish a wired and wireless local area network with static and dynamic IP addresses connected to the Internet</li> <li>2. Establish DHCP and DNS server network services</li> <li>3. Establish WEB, FTP and E-mail server network services</li> <li>4. Establish a system for remote work</li> </ol>					
<b>Content of a course</b>					
Introduction to computer networks. Role of computer networks. Development of computer communications. Computer network architecture (ISO/OSI) reference models. Functional characteristics of computer network facilities. Data protecting during in transfer. Computer communications security. Data exchange protocols. Computer network architecture and protocols. Definition of standards and protocols. Communication system model for data transfer. System of Internet, its organization and standards, data transfer. Private networks-intranet. Internet access protection. Development and future of computer networks. Network maintenance, network news. User networks. Principles of users' activity.					
<b>Teaching modes</b>	<input checked="" type="checkbox"/> lectures <input type="checkbox"/> auditory exercises <input checked="" type="checkbox"/> seminars and workshops <input type="checkbox"/> distance learning <input type="checkbox"/> field classes		<input checked="" type="checkbox"/> individual assignments <input type="checkbox"/> multimedia and network <input type="checkbox"/> laboratory <input type="checkbox"/> supervisor's work <input type="checkbox"/> other _____		
<b>Grading, evaluation and monitoring of students' work continuously during lectures and exams</b>					
Grading is based upon evaluation course's learning outcomes' adoption. Grading is performed continuously during lectures and/or during exam, in compliance with the provisions of Regulation on the assessment of students.					