

<b>Study program:</b> Modern computer technologies / Communication technologies			
<b>Course title:</b> Network Services			
<b>Professor/assistant:</b> PhD Dušan M. Stefanović			
<b>Type of course:</b> elective			
<b>ECTS credits:</b> 7			
<b>Pre-requisites:</b> none			
<b>Aims of the course:</b> Students should be able to recognize different types, characteristics and functions of network services and successfully install, configure and administer them accordingly.			
<b>Learning outcomes:</b> Define different types of network services. Students should set, explain, and use various commands in order to install and set network services. Recognize and explain the usage of different protocols. Explain and deploy services and applications for network operating systems. Set and explain different tools for tshoot.			
<b>Syllabus</b>			
<i>Theoretical part</i> Network operating systems and protocols. Basic network operating system commands. Overview of the TCP / IP protocol set. TCP / IP services and applications. Troubleshooting and troubleshooting tools in TCP / IP networks. Network services (DHCP, DNS, Mail, Web, Print, NAT, NTP, Syslog, SSH and FTP). Multimedia services (voice and image transmission via TCP / IP protocol).			
<i>Practical part</i> Setting basic TCP / IP protocol parameters. TCP / IP basic network services installation and configuration in Packet Tracer and GNS3 software. Network infrastructure configuration in complex network topology.			
<b>Literature</b>			
1. INTERNETWORKING WITH TCP/IP Volume One (6th Edition) , Douglas E.Comer, CET, 2000. 2. NETWORKING, MSCE certification book, CET, 2015. 3. DEPLOYING IPV6 NETWORKS, Ciprian Popoviciu, Eric Lezv-Abegnoli, Patric Grossetete, Computer library, 2007.			
<b>Number of active classes</b>			Other forms of teaching:
Lectures: 30	Practical classes: 15+15	Research work:	
<b>Teaching methods</b>			
<b>Grading system</b> (maximum 100 points), <b>grading scale</b> from 5 to 10: below 51 points grade 5, grade 6 from 51-60 points, grade 7 from 61-70 points, grade 8 from 71-80 points, grade 9 from 81-90 points, grade 10 from 91-100 points.			
<b>Pre-exam obligations</b>	<b>points</b>	<b>Final exam</b>	<b>points</b>
activity during theoretical lectures	<b>10</b>	written exam	<b>30</b>
practical training	<b>10</b>	oral exam	
colloquium(s)/seminar papers	<b>40+10</b>		
<b>Sum</b>	<b>70</b>	<b>Sum</b>	<b>30</b>