

Study program: Informatics			
Course title: Computer Networks			
Professor/assistant: Vladimir M. Nedić			
Type of course: Compulsory			
ECTS credits: 6			
Prerequisites: none			
Aims of the course: Students acquire basic theoretical knowledge and get practical training about the Internet, LAN and WAN technologies, computer network components and computer network development.			
Learning outcomes: After passing the exam the student will be able to use LAN and WAN technology in developing and using computer networks.			
Syllabus: <i>Theoretical part:</i> <ol style="list-style-type: none"> 1. An introduction to computer networks – history. 2. Data transfer and basics of communication. 3. Basics of communication: hardware, software, protocols 4. Types of networks, topologies. 5. OSI networking model: layers, purpose and work. 6. Basic protocols: SNMP, NTP, VoIP. 7. Basics of computer network security/protection: firewall. 8. The Internet and Internet Cloud. 9. Network development. <i>Practical part:</i> Practical classes			
Literature: <ol style="list-style-type: none"> 1. Andrew S. Tanenbaum, David J. Wetherall, Računarske mreže, Mikro knjiga, 2012 2. Veinović Mladen, Aleksandar Jevremović, Uvod u računarske mreže ,Univerzitet Singidunum, Fakultet za poslovnu informatiku, 2007 3. Danka Pevac, 2012. Praktikum za tk mreže 1 i 2 i internet, ICT, Beograd 4. Green Paul ed. Computer network architectures and protocols. Springer Science & Bussiness Media, 2012 			
Total number of active classes: 60		Lectures: 30	Practical classes: 30
Teaching methods: Lectures and practical computer exercises			
Grading system (maximum 100 points) grading scale from 5 to 10: below 51 points – student fails the exam, 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.			
Pre-exam obligations:	Points:	Final exam:	Points:
Activity during theoretical lectures	max 5	Written exam	50
Practical training	max 5		
Written test(s)	max 30		
Term paper	max 10		
Minimum requirement for the final exam	30		