

Course title: Routing Techniques
Course code: 50055
ECTS credits: 6
Requirements: None
Basic information
Level of studies: Master applied studies
Year of study: 1
Trimester: 1
Goal: Training students to configure and maintain network devices and solve problems related to routing protocols.
Outcome: Acquainting students with the routing basics and router performance. Upon completion of the course, students should be able to independently configure a router and solve routing problems in a configured network.
Contents of the course
Theoretical instruction
1. WAN technologies and routing
2. Network devices
3. Routing protocols
4. Troubleshooting routing problems
5. Network management
Practical instruction (Problem solving sessions/Lab work/Practical training)
1. Subnetting (VLSM, CIDR)
2. Connecting a network
3. Configuring routers
4. Configuring switches
5. Solving routing problems
Textbooks and References

1. James F. Kurose, Keith W. Ross, Умрежавање рачунара од врха ка дну са Интернетом у фокусу, превод трећег издања, РАФ Рачунарски факултет, Београд, CET Computer Equipment and Trade, Београд, 2005, оригинално издање: Computer Networking: A Top-Down Approach Featuring the Internet, Pearson Education, Inc., 2005.
2. Douglas E. Comer, Povezivanje mreža – TCP/IP: Принципи, протоколи и архитектуре, превод четвртог издања, CET Computer Equipment and Trade, 2001, Београд, оригинално издање: Internetworking with TCP/IP, Vol I: Principles, Protocols, and Architecture, Fourth Edition, Prentice Hall, Inc., 2000.
3. Richard Deal, CCNA-Cisco Certified Network Associate Study Guide, McGraw-Hill, 2008.
4. Henry Benjamin, CCNP Practical Studies: Routing, Cisco Press, 2002.
Number of active classes (weekly)
Lectures: 4
Practical classes: 2
Other types of classes: 0
Grading (maximum number of points: 100)
Pre-exam obligations: Points
Activities during lectures: 5
Activities on practical exercises: 25
Seminary work: 0
Colloquium: 30
Final exam: Points
Written exam: 40
Oral exam: 0
Lecturer: Milan Pavlović, PhD
Associate: Marija Zajeganović, MSc