Course title: IP Local Networks
Course code: 50059
ECTS credits: 6
Requirements: None
Basic information
Level of studies: Master applied studies
Year of study: 2
Trimester: 4
Goal: Acquainting students with the basic and advanced traffic forwarding techniques in local computer networks.
Outcome: Upon completion of the course, students should be able to install, configure and monitor equipment in local computer networks.
Contents of the course
Theoretical instruction
1. The basic principles of VLAN environment
2. Preventing loops at the second layer of the OSI model
3. Private VLANs
4. Layer 2 security
5. InterVLAN routing
6. Layer 3 security
7. The basics of FHRP protocols (HSRP, VRRP, GLBP)
Practical instruction (Problem solving sessions/Lab work/Practical training)
1. Creating and establishing connectivity between workstations in a local computer network.
2. Testing basic and advanced functions of network equipment at layer 2 of the OSI model.
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, Rearson 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 Asociate 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: 0	
Activities on practical exercises: 50	
Seminary work: 0	
Colloquium: 20	
Final exam: Points	
Written exam: 30	
Oral exam: 0	
Lecturer Milan Pavlović, PhD	
Associates: Marija Zajeganović, MSc and Radovan Mitričević	