Course title: Advanced Routing Techniques
Course code: 50057
ECTS credits: 6
Requirements: None
Basic information
Level of studies: Master applied studies
Year of study: 1
Trimester: 2
Goal: Introducing advanced routing protocols used in larger computer networks as
well as on the Internet.
Outcome: Upon completion of the course, students should have theoretical and
practical knowledge of advanced routing traffic in computer networks.
Contents of the course
Theoretical instruction
THEOLETICAL HISTIACTION
1. Advanced functions of RIPv2 routing protocol
Advanced functions of Riff V2 routing protocol Advanced functions of EIGRP routing protocol
3. Advanced functions of OSPF routing protocol
4. OSPF multi-area
5. OSPF stub zone
6. Basics of BGP protocol
7. Basics of audio and video traffic routing via Multicast
7. Basics of audio and video traffic fouting via ividiticast
Practical instruction (Problem solving sessions/Lab work/Practical training)
rractical instruction (Froblem solving sessions/ Lab work/Fractical training)
Creating and configuring complex network topologies which use advanced
routing protocol functions.
Textbooks and References
TOALDOORS WHO NETERENCES

- 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: 3

Practical classes: 2

Other types of classes: 1

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: Nenad Krajnović, PhD

Associates: Marija Zajeganović, MSc; Radovan Mitričević