Course title: Cloud Linux
Course code: 61041
ECTS credits: 6
Requirements: None
Basic information
Level of studies: Undergraduate applied studies
Year of study: 3
Trimester: 7
Goal: Broadening knowledge acquired in the Linux System Administration course and performing complex tasks in server and workstation administration.
Outcome: Students should be able to perfom complex tasks in administration and optimization of server performance as well as of the other elements of a computer network in Linux environment.
Contents of the course
Theoretical instruction
1. Adding a computer to a network
2. IP address assignment
3. Network interface configuration
4. Configuring static routes
5. Linux network configuration - various Linux distributions
6. Network file system
7. Firewall
8. Managing printers
9. Installing and configuring Samba
10. DNS server configuration
11. DHCP server configuration
12. Installing and configuring Linux mail server
13. Linux cert management
14. System monitoring
15. Network Diagnostics
16. Virtualization
Practical instruction (Problem solving sessions/Lab work/Practical training)
1. Linux networking tools
2. Managing printers
3. Installing and configuring DHCP server

4. Installing and configuring DNS
5. Sendmail configuration
6. System security
7. Linux containers and virtualization
Textbooks and References
1. Evi Nemeth, Garth Snyder, Trent R. Hein, Linux Administration Handbook, Prentice Hall
2. Nick Wells, The Complete Guide to Linux System Administration (Paperback), Course Technology Ptr, 2004.
3. By Olaf Kirch , Terry Dawson, Linux Network Administrator's Guide, 2nd Edition, O'Reilly, 2000.
4. Benjamin Mako Hill, Jono Bacon, Ubuntu Official Guide, CET, Belgrade, 2008.
Number of active classes (weekly)
Lectures: 4
Practical classes: 2
Other types of classes: 1
Grading (maximum number of points: 100)
Pre-exam obligations: Points
Activities during lectures:
Activities on practical exercises: 20
Seminary work: 10
Colloquium: 20
Final exam: Points
Written exam: 50
Oral exam:
Lecturer: Goran Zajić, PhD
Associate: Slobodan Čabarkapa