

1.	Course title	Networking services administration		
2.	Course code			
3.	Study program	KNI, MT, ET		
4.	Unit offering the course	FCSE		
5.	Undergraduate/postgraduate/PhD	Undergraduate		
6.	Year/semester 3/semester/elective	7. ECTS: 6		
8.	Teacher(s)	d-r Sonja Filiposka, d-r Vesna Dimitrova, d-r Boro Jakimovski, d-r Igor Mishkovski		
9.	Course prerequisites	Data and computer communications, Operating systems		
10.	Goals (competences): The aim of the course is to give detailed examination of network services that are available to users and systems in local and global networks. Students will be able to setup and manage standard network services.			
11.	Course content: Overview of Linux operating systems, their development, implementation and distribution. Administrator view of the organization of an operating system, main settings and configurations. Protocols, installation and management of network services (DNS, DHCP, LDAP), setting up Internet servers (HTTP, FTP), electronic mail (SMTP, POP, IMAP), database servers and network file systems (SAMBA, NFS), systems for network security (Firewalls, IPS). Centralized management and configuration of network computers, user management and user access rights.			
12.	Teaching methods: Teaching, supported by slides, interactive lecturing, exercises, projects, guest lectures, using online collaboration/communication environments.			
13.	Total available time	6 ECTS x 30 hours = 180 hours		
14.	Distribution of the available time	30+15+30+105 = 180		
15.	Teaching activities	15.1.	Lectures	30 hours
		15.2.	Training (labs, problem solving), seminar and team work	45 hours
16.	Other activities	16.1.	Project work	45 hours
		16.2.	Self study	20 hours
		16.3.	Home work	40 hours
17.	Grading			
	17.1.	Tests		40 points
	17.2.	Seminar work/project (written or oral presentation)		50 points
	17.3.	Active participation		10 points
18.	Grading criteria	to 49 points		5 (five) (F)
		from 50 to 59 points		6 (six) (E)

		from 60 to 69 points	7 (seven) (D)			
		from 70 to 79 points	8 (eight) (C)			
		from 80 to 89 points	9 (nine) (B)			
		from 90 to 100 points	10 (ten) (A)			
19.	Final exam prerequisites	15.1 and 15.2				
20.	Course language	Macedonian and English				
21.	Quality assurance methods	Mechanisms of internal evaluation and polls				
22.	Literature					
	22.1.	Compulsory				
		No.	Authors	Title	Publisher	Year
		1.	Tom Adelstein, Bill Lubanovic	Linux System Administration	O'Reilly Media	2007
		2.	James Turnbull, Peter Lieverdink, Dennis Matotek	Pro Linux System Administration	Apress	2009
	3.	Brian Desmond, Joe Richards, Robbie Allen and Alistair G. Lowe-Norris	Active Directory: Designing, Deploying, and Running Active Directory	O'Reilly Media	2008	
	22.2.	Mandatory				
		No.	Authors	Title	Publisher	Year
		1.	Terry Collings, Kurt Wall	RadHat Linux Networking and System Administration	RedHat press	2002
		2.				
3.						