Basic data of the subject						
Academic unit:	Faculty of Engineering and Informatics					
	Applied Informatics					
Title of the subject:	Connecting Computer Networks					
Level:	Bachelor					
Course Status:	Elective					
Year of studies:	III					
Number of hours per week:	3					
Value of Credits - ECTS:	5					
Time / location:						
Course lecturer:	Prof.Dr.Ibrahim Çunaku					
Contact details:	Ibrahim.cuna	aku@ushaf.n	<u>et</u>			
Course Description:		•		ical and practical		
	knowledge configuring global networks. Delves into the					
	internal LAN connection to the external WAN networks.					
	Learning to configure PPP, Frame Relay, ANT, VPN. Different					
	methods of NAT broadcasting are tested. Learning to					
		Serial Links.				
Objectives of the course:	Aim of the course – learn to troubleshoot links, configure PAP					
	and CHAP, PPP, Frame Relay, find out principle of NAT,					
	configure static and dynamic NAT and configure the VPN.					
Expected learning outcomes:	Upon successful completion of this course, student will be able					
	to:					
	Configure, diagnose and eliminate the problems of					
	global networks.					
	 Defines NAT methods of translation. 					
	 Configure VPN according to the requirements. 					
	 Find a suitable command to configure network 					
	equipment.					
	 Use network monitoring methods. 					
	 Identifies network faults and removes it. 					
	• Self-s	study using N	letacad environment	<i>t</i>		
Contribution to the stude	ent load (whic			,		
Activity		Hour	Day/Week	In total		
Lectures with numerical exercises		3	15	45		
Internship						
Contacts with teacher / consulta	tions					
Field exercises						
Midterm, seminars and projects.		3	2	6		
Homework						
Self-learning time student (at the	3	15	45			
at home)		7				
Final preparation for the exam			2	14		

Time spent on evaluation (tes	ts quiz and		1				
final exam)							
Projects and presentations.		3	5	15			
Total			125				
2000				120			
Teaching methodology:	The course t	akes 15 wee	ks with 2 hours of l	ectures and 2 hours			
	weekly individual and group exercises.						
		_	•	ual and group work			
	in which con	in which concrete examples will be discussed. Active participation is extremely important so students are encouraged to attend lectures and exercises regularly and					
	Active parti						
	encouraged						
	contribute to the discussions that take place in lectures. Lectures, exercise, individual work, discussions and group						
	work.						
Assessment methods:	Test 1, Test 2, Attendance and Activity.						
	Final exam:	Final exam: 100%					
The ratio of theory and	70% theory	70% theory with exercises and 30% laboratory work.					
practice:							
Literature	1 1 5 1	(2012		G : 1 20.4			
Basic Literature:		1. Balchunas (2013) Cisco CCNA Study Guide. 304 p.					
A 3 3 2 4 2 1 T 2 4 4	2. Cisco material in NETACAD system.						
Additional Literature:	A. T. Lammle (2013) CCNA Routing and Switching Study						
Designed learning plan	Guide. 1178 p.						
Week:	Lectures an	d evercises :	to he held				
Week one:	Lectures and exercises to be held Introduction						
Week two:	Global Networks.						
Week three:	WAN Technology.						
Week four:		Hierarchical Network Design.					
Week five:	Connect to WAN.						
Week six:	Point to point connection.						
Week seven:	Test 1						
Week eight:	Frame Retransmission.						
Week nine:	The network address translation IPv4.						
Week ten:	Broadband Solutions.						
Week eleven:	Securing site to site links.						
Week twelve:	Network Monitoring.						
Week thirteen:	Network Troubleshooting.						
Week fourteen:	Network Troubleshooting (continued).						
Week fifteen:	Test 2						
Academic policies and rules	of conduct						
D 1 1 C1	1 .						

Regular attendance of lectures and exercises is necessary, as well as active participation with discussion and solution of tasks. Not impeding the progress required for learning using mobile phones turned off or in silent mode.