

UNIVERSITY "UKSHIN HOTI" PRIZREN FACULTY OF COMPUTER SCIENCE

PROGRAM: Information Technology and Telecommunication - Turkish

Curriculum SYLLABUS									
Level of studies		Bachelo	Program	TIT-TUR	Academic	year	2018/19		
SUBJECT		TCP/IP							
Year Semester	2 4	Status Of the subject	Obligatory	Code		E	CTS credits	6	
Teaching weeks			15	Hours teaching	45	L	ectures 2	Exercises	
Teaching Methodology		 Power point of course subjects. Exercises and homework exercises related to the course subjects. Course repetition, group work, discussion and analysis. 							
Consultation		Students with a grade of 40 or above can attend the interview.							
The teacher		PhD.Cand. Berkant Başa		E-mail	: <u>basaber</u>	basaberkant@gmail.com			
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Assistant		Mr. Sertaç Şalçin		E-mail	il: sertacsalcini@gmail.com				
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Study goal and table of content	Benefits of student
The aim of this course is to give the students basic information about Network concepts. In this course, network parameters, network devices, the necessary elements for the LAN installation, TCP / IP and internet to have information about and also in the course of the simulation program with the help of the project (network) will be given general information about all stages. The student is expected to have a general knowledge about network development.	 Explain the concepts of TCP / IP, Network, LAN Installation, Network management. Define the OSI Application Model and the tasks assigned to each layer. Describe the operation of network devices, computer or similar digital systems. Router configuration and Riverbed with simulation program be ready for case studies.

Methodology for the implementation of educational topics:

Lecture, slide show presentation, group work, discussion on the topics of the question and the student to analyze the topics, ideas to say, to do research about the subjects we are going to do in the course will be asked about the subjects we are going to do in the application course, problem solving and project preparation.

Conditions for realization of educational topics:

The course covers the theoretical issues in Computer Networks. For this purpose, the Internet uses the Hierarchy of Protocols and it goes down from Top to Down and builds on how the applications familiar to students work.

Ways of assessing of the student (in %):	Evaluation in%	Final grade	
HomeWork / Practice lesson	%10	51-60%-	6
Midterm	%40	61-70	7
Final exam	%50	71-80	8
Total	100.00 %	81-90	9
10tai		91-100	10

Obligations of student:							
	Lectures	Exercises					
practice lesson profess contrib rules at	udent is obliged to follow the courses and e courses. They have to come prepared for the based on the resources determined by the or. During the course, students must actively ute to improve the quality of the course. The nd ethical principles required by the university higher education should be taken into eration.	lecture	are required to repare homew	cation course, the to make exercises ork / projects w	on the su	ibjects	
Activit	ies	He	our/ weeks	Days/Weeks			
	ectures	2		15 weeks	30 hour		
La	aboratory exercises	2		15 weeks	30 hour		
Co	ontacts with teachers / consultations	0,5 15 weeks			7.5 hour		
Pr	actical work	0,!		15 weeks	7.5 hour		
Pr	rojects, presentations, etc.	1	· '		15 hour		
	wn study time	1	15 weeks		15 hour		
	reparation for final exam	1		15 weeks 15 ho			
	me spent in the assessment (tests, final exam, etc.			15 weeks	30 hour		
	1 ECTS credits= 25 hour commitment, e.g. if the		ct has 6				
	credits student must have 150 hours during the ser			Total load:	150)	
Week	Lectures	Hour		Exercises			
VV CCR	Topic	Hour		Topic			
1-2	 Network Concepts Complete network parameters (LAN, Campus, WAN, Remote Connection) OSI Application Model 	4	 Information and usage areas of Riverbed Modeler Academic Edition 17.5. Installation of Riverbet Modeler Academic Edition 17.5 			4	
3	Network Devices (Network card, HUB, Switch, Router, Gateway, Firewall, Modem device, Acces server, Transciever, Internet access sharing)	2	Editi appli	iverbed Modeler Academic dition to recognize the pplication of network evices.			
4-5	 Intranet / Extranet- (Internal / External Networks), VPN, vLAN, Physical connection between systems, Network Management. Network operating systems, Protocol and standards, Protocol sets, Ethernet & Token Ring Families. 	4	exter • Priva Virtu Netw	ication with int nal networks. Ite virtual netwonal network apploork manacation.	4		
6-7	 ISDN, ADSL, LMDS. Serial transmission, Dial-Up analog connection, Switching methods in data transmission, packet switching, circuit switching. QoS Service quality, Voice, Data, Image transmission, Voice over IP. 	4	 Riverbed Modeler Academic Edition with ISDN, ADSL, Dial-Up application Package switching application Voice, Data, Image transmission, Voice transmission over IP. 			4	
8	Midterm	2	Solution of Exam Questions			2	

9-10	 Requirements for setting up LAN TCP / IP and Internet 	4	 Simple LAN installation Application with Riverbed Sender and receiver port application 	4
11-12	 IP addresses and Subnets IP Routing IPv4	4	• IP addresses: symbolic, DNS applied, Class IP addressing, subnetting and subnet mask implementation	4
13-14	 Router Overview, Router configuration. IPv6. UNIX Architecture. 	4	Router installation and router configuration applied	4
15	Final Exam	2	Solution of Exam Questions	2

LITERATURE:

- 1. Bulut Bilişim Ders Notları-"Numan ÇELEBİ-2014", Sakarya Üniversitesi bilgisayar Mühendisliği Bölümü.
- 2.https://www.researchgate.net/publication/307545682_Bulut_Bilisim_Teknolojisi_ve_Bulut_CBS_Uygulamalari
- 3. Bulut Bilişim ve Eğitim Alanında Örnek Bir Uygulama, Onur Sevli, Yüksek Lisans Tezi, Bilgisayar Mühendisliği Anabilim Dalı, Isparta 2011.
- 4. Cloud Computing and Virtualization, Tarkan Eyerci, Cybersoft.
- 5. Bulut Bilişim Güvenliği 85, Evrim Furuncu, Gebze Yüksek Teknolojisi Enstitüsü

NOTICE:

- ✓ In general, the course will be run with Power Point and other resources.
- ✓ In addition, the Professor will provide additional resources other than the main sources (scientific studies, reports, national and international published articles).

Notice for the student:

- ✓ It is necessary to enter the course on time and prepared.
- ✓ other than this, students cannot enter the course.
- ✓ 80% attendance is required during the semester.
- ✓ In the course, discussion, ask questions, feedback, subject and presentation, taking an active role in the applications.
- ✓ Voice recorder, telephone, etc. The use of such devices is prohibited.