COMMUNICATION NETWORKS										
1	Course Title:	COMMUNICATION NETWORKS								
2	Course Code:	EEM4410								
3	Type of Course:	Optional								
4	Level of Course:	First Cycle								
5	Year of Study:	4								
6	Semester:	8								
7	ECTS Credits Allocated:	4.00								
8	Theoretical (hour/week):	3.00								
9	Practice (hour/week):	0.00								
10	Laboratory (hour/week):	0								
11	Prerequisites:	-								
12	Language:	Turkish								
13	Mode of Delivery:	Face to face								
14	Course Coordinator:	Doç. Dr. SAİT ESER KARLIK								
15	Course Lecturers:	-								
16	Contact information of the Course Coordinator:	E-posta:ekarlik@uludag.edu.tr Tel: (224) 294 20 95 Adres: Elektronik Mühendisliği Bölümü 5. Kat, No:529								
17	Website:									
18	Objective of the Course:	To gain sufficient background about architectures, implementation an operational principles of current communication networks; to determine and solve basic problems in communication networks; to determine performance of a communication network; to design a basic network; to develop and select proper transmission methods and devices for communication networks								
19	Contribution of the Course to Professional Development:									
20	Learning Outcomes:									
		1	To gain sufficient background about architectures, implementation an operational principles of current communication networks							
		2	To determine basic problems in communication networks							
		3	To solve basic problems in communication networks							
		4	To determine performance of a communication network and to design a basic network							
		5	To develop proper transmission methods for communication networks							
		6	To select proper devices for communication networks							
		7								
		8								
		9								
		10								
21	Course Content:									
10.		Co	ourse Content:							
Week	Theoretical Practice									

a		oloce								
Jr	network types (LAN, MAN, WAN, wire and private networks), OSI and TCP/ reference models									
2	Network examples and standardization	on								
3 F	Physical layer standards									
l p	Data-link layer- basic data-link protoco protocol authentication, high level dat control (HDLC), Internet data-link laye	ta-link								
s	Medium access control (MAC) sublay static and dynamic channel allocation and MANs, multiple access protocols	in LANs								
6	Data-link layer switching devices									
l p	Network layer- network layer design principles, routing and congestion cor algorithms	ntrol								
<b>8</b> F	Repeating courses and midterm exar	n								
	Network layer - Quality of service (Qonteroperability, internet network layer									
l p	Fransport Layer- Basic transmission protocols, Internet transmission proto JDP	cols:								
	nternet transmission protocols: TCP, performance	network								
	Application layer- DNS and e-mail									
Activite	es			Number	Duration (hour)	Total Work Load (hour)				
Theoretic	മൽtocols, e-mail and web security	<del>, ,</del>		14	3.00	42.00				
Practical	ls/Labs			0	0.00	0.00				
Self stud	<i>Waterial</i> seperation		91	MÆd., Prentice Hall, 2	<b>M.0</b> 0	56.00				
Homewo	orks			0	0.00	0.00				
Projects			3.	Bilgisayar Haberleşm	sio∕oe Ağ Teknolojil	erio Rifat				
Field Stu	udies			0	0.00	0.00				
Midterm	exams		0	nzur Osman, Nobel Yay	/2 <b>0.00</b> jit., 2006.	40.00				
Others				0	0.00	0.00				
Final Exa				1	27.00	27.00				
Total Wo						165.00				
Total wo	rk load/ 30 hr EARNING ACTIVITIES	NUMRE	W	FIGHT		5.50				
	redit of the Course	0		2.00		4.00				
Midterm Exam 2				50.00						
Quiz 0 Home work-project 0				0.00						
Final Exa	· ·	_	0.00 50.00							
Total	alli		100.00							
	tion of Term (Year) Learning Activities Grade	3 es to		50.00						
Contribu	tion of Final Exam to Success Grade	)	50.00							
Total			1(	100.00						
Measure Course	ement and Evaluation Techniques Us	ed in the								
24 E	ECTS / WORK LOAD TABLE									

25	CONTRIBUTION OF LEARNING OUTCOMES TO PROGRAMME QUALIFICATIONS															
	PQ1	PQ2	PQ3	PQ4	PQ5	PQ6	PQ7	PQ8	PQ9	PQ1 0	PQ11	PQ12	PQ1 3	PQ14	PQ15	PQ16
ÖK1	5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
ÖK2	0	5	0	0	0	0	0	0	0	0	0	0	0	0	0	0
ÖK3	0	5	0	0	0	0	0	0	0	0	0	0	0	0	0	0
ÖK4	0	0	5	0	0	0	0	0	0	0	0	0	0	0	0	0
ÖK5	0	0	0	5	0	0	0	0	0	0	0	0	0	0	0	0
ÖK6	0	0	0	5	0	0	0	0	0	0	0	0	0	0	0	0
		l	LO: L	.earr	ning (	bjec	tive	s P	Q: P	rogra	ım Qu	alifica	tions	<u>.                                    </u>		
Contrib ution Level:	n			2	2 low		3	3 Medium		4 High		5 Very High				