INTEGRATED COMMUNICATION NETWORKS								
1	Course Title:	INTEGR	ATED COMMUNICATION NETWORKS					
2	Course Code:	EEM440	5					
3	Type of Course:	Optional						
4	Level of Course:	First Cyc	le					
5	Year of Study:	4						
6	Semester:	7						
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:	None						
12	Language:	Turkish						
13	Mode of Delivery:	Face to f	ace					
14	Course Coordinator:	Prof. Dr.	GÜNEŞ YILMAZ					
15	Course Lecturers:							
16	Contact information of the Course Coordinator:	Tel: (224	gunesy@uludag.edu.tr ) 294 20 16 lektronik Mühendisliği Bölümü 5. Kat, No:532					
17	Website:							
18	Objective of the Course:		n students about integrated communication networks ISDN, ATM, SDH, LAN, MAN and WAN systems.					
19	Contribution of the Course to Professional Development:	Learning of Integrated Communication networks.						
20	Learning Outcomes:							
		1	To have knowledge about signalling and switching systems, transmission media types and characteristics					
		2	To comprehend ISDN standards, protocols and services					
		3	To have an opinion about ATM and SDH technologies, local and metropolitan area network structures and application areas, X.25 and Frame Relay protocols.					
		4						
		5						
		6						
		7						
		8						
		9						
		10						
21	Course Content:							
		Co	urse Content:					
Week 1	Theoretical Wideband integrated communication		Practice					
2	networks- general characteristics Signalling techniques in communicat							
	systems							
3	Switching techniques in communicati systems	ion						

4	Wideband transmission media: twisted pair, coaxial cables																
5	Wideband transmission media: optical fibers																
6	Wideband ISDN: Standards, services and protocols																
7	Wideband ISDN: Standards, services and protocols																
8	Midterm Exam + General Review																
9	Asynchronous transfer mode (ATM)																
10	Asynchronous transfer mode (ATM)																
11	Synchronous digital hierarchy (SDH)																
12	Local	area	a netv	works	(LAN	s)											
13	Metro	polit	an ar	ea ne	twork	s (MAN	ls)										
14	Wide area networks (WANs), interoperability among wideband communication networks							,									
22									117	1 Tologommunications and Data Communications							
	Textbooks, References and/or Other Materials:						На	1.Telecommunications and Data Communications Handbook, R. Horak, 2nd Ed., Wiley- Interscience, 2008.									
								2.Data and Computer Communications, W. Stallings, 9th Ed., Prentice Hall, 2010.									
								3.E	3.Bilgisayar Haberleşmesi ve Ağ Teknolojiler, R. Çölkesen								
23	ve B. Örencik, Papatya Yayınları, 2008.  Assesment																
TERM LEARNING ACTIVITIES   NUMBE   WEIGHT																	
	Activites							Number			Dura	Duration (hour)			Total Work		
	Activities											(1001)			Load (hour)		
HIPERPH	Theoremest 0						0.6	0.94			3.00			42.00			
Practica	cticals/Labs								0			0.00			0.00		
<b>Seta</b> stu	Pstudy and preperation 2							10	10ρ <sub>4</sub> 00			5.00			70.00		
	lomeworks							(	0			0.00	0.00			0.00	
Project	jects								0			0.00			0.00		
Field S	Studies								0			0.00			0.00		
Midtern	rm exams							10.	10p.00			4.00			4.00		
Others								0			0.00			0.00			
Final E	Exams						Un	Undergraduate Education			1.00			4.00			
	Work Load												124.00				
T <b>∂₹</b> # w	WEGTS://WORK LOAD TABLE											4.00					
ECTS (	CTS Credit of the Course													4.00			
25	25 CONTRIBUTION OF LEARNING OUTCOMES TO PROGRAMME QUALIFICATIONS																
	P	Q1	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	5	(	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
ÖK3	5	(	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
			I	O: I	.earn	ina C	)bied	tive	s F	Q: P	rogra	m Qu	alifica	tions	<u>.                                    </u>	I	Ь Н
LO: Learning Objectives PQ: Program Qualifications																	

Contrib	1 very low	2 low	3 Medium	4 High	5 Very High
ution					
Level:					