SIGNALING AND SWITCHING SYSTEMS						
1	Course Title:	SIGNALI	NG AND SWITCHING SYSTEMS			
2	Course Code:	EEM4411				
3	Type of Course:	Optional				
4	Level of Course:	First Cyc	First Cycle			
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:	-				
12	Language:	Turkish				
13	Mode of Delivery:	Face to face				
14	Course Coordinator:	Yrd.Doç.	Yrd.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 basic devices and architectures used in current signalling and switching systems; to determine and solve problems in signalling and switching systems by using related standards and protocols; to select proper signalling and switching methods for system applications.				
19	Contribution of the Course to Professional Development:					
20	Learning Outcomes:					
		1	To gain sufficient background about basic devices and architectures used in current signalling and switching systems			
		2	To determine problems in signalling and switching systems			
		3	To solve problems in signalling and switching systems			
		4	To design signalling and switching systems that can meet specific requirements under realistic limitations and conditions			
		5	To select proper signalling and switching methods for system applications			
		6				
		7				
		8				
		9				
24	Course Content:	10				
21	Course Content: Course Content:					
Mook	Theoretical					
vveek	Fractice					

1	Introduction to signalling systems, sign telephony networks, classification of signalling systems						
2	In-band signalling, out-band signalling signalling system no.5, MFC-R2 signalling system no.5						
3	3 Signalling in access networks: GR-303 standards, V5 standards, introduction to common channel signalling						
4	4 Common channel signalling: Signalling system no.6 and no.7 standards, signalling units, signalling lines and signalling networks, MTP1, MTP2, MTP3 and TUP signalling						
5	5 Digital Subscriber Signalling System No.1 (DSS1): Call control signalling, ISUP signalling, end-to-end signalling						
6	Introduction to switching systems, requirement for switching methods, classification of switching systems: ci switching systems, switching systems memories						
7	Circuit switching methods: space, tim frequency domain switching; messag switching technique, packet switching techniques: datagram mode, virtual c mode	e J					
8	Repeating courses and midterm exar	n					
9	Telephony network: multi-exchange		L		1		
Activi	Activites			Number	Duration (hour)	Total Work Load (hour)	
Th po re	Theore Eaterprise switching systems and private			14	3.00	42.00	
Practicals/Labs		_	0	0.00	0.00		
Self stueychite of the peration				14	4.00	56.00	
Homeworks				0	0.00	0.00	
Project	Project techniques, signalling in ATM networks			0	0.00	0.00	
Field S	Field Studies			0	0.00	0.00	
Midter	Midtern exams I optical packet switching techniques, optical			2	20.00	40.00	
Others	Others			0	0.00	0.00	
Final E	Switching systems			1	27.00	27.00	
	Vork Load					165.00	
	पुन्दिभुभुनुकु अभूव architectures					5.50	
ECTS	Credit of the Course					4.00	
22	Textbooks, References and/or Other Materials:		 Signalling in Telecommunication Networks, John G. Van Bosse and Fabrizio U Devetak, Wiley Series, 2006. Telecommunications Switching, J. Gordon Pearce, Springer, 2001. Signaling System # 7, Travis Russell, McGraw-Hill, Fifth Edition, 2006. Optical Switching, G. I. Papadimitrou, C.Papazoglou, A. S. Pomportsis, Wiley Series, 2006 				
23	23 Assesment						
TERM I	LEARNING ACTIVITIES	NUMBE R	W	/EIGHT			
Midterr	m Exam	2	5	50.00			
Quiz	Quiz 0		0	0.00			

Home work-project	0	0.00		
Final Exam	1	50.00		
Total	3	100.00		
Contribution of Term (Year) Learning Activ Success Grade	ties to	50.00		
Contribution of Final Exam to Success Gra	de	50.00		
Total		100.00		
Measurement and Evaluation Techniques Course	Jsed in the			
24 ECTS / WORK LOAD TABL	E			

CONTRIBUTION OF LEARNING OUTCOMES TO PROGRAMME **QUALIFICATIONS** PQ1 PQ2 PQ3 PQ4 PQ5 PQ6 PQ7 PQ8 PQ9 PQ1 PQ11 PQ12 PQ1 PQ14 PQ15 PQ16 ÖK1 ÖK2 Ю lo ÖK3 ÖK4 ÖK5 LO: Learning Objectives PQ: Program Qualifications

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