DATA COMMUNICATION								
1	Course Title:	DATA C	OMMUNICATION					
2	Course Code:	BMB402	1					
3	Type of Course:	Optional						
4	Level of Course:	First Cyc	le					
5	Year of Study:	4						
6	Semester:	7						
7	ECTS Credits Allocated:	5.00						
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:	Dr. Ögr.	Üyesi Murtaza CİCİOĞLU					
15	Course Lecturers:							
16	Contact information of the Course Coordinator:	murtazacicioglu@uludag.edu.tr						
17	Website:							
18	Objective of the Course:	The aim of this course is to provide basic information about digital and analog data communication concepts, methods and techniques.						
19	Contribution of the Course to Professional Development:	Engineering Science: 80%; Engineering Design: 20%						
20	Learning Outcomes:							
		1	Having knowledge about the basic level of data communications					
		2	To understand the basic principles of data transmission from source to destination					
		3	To establish the relationship between the concepts of data communications					
		4						
		5						
		6						
		7						
		8						
		9						
		10						
21	Course Content:	-						
		Co	ourse Content:					
Week		1	Practice					
1	An overview of data communication a networking. The protocols and protocol architectu	and ures						
2	Network Model (OSI, TCP / IP) Data transfer. Physical Layer: signals	S						
3	Transmission disturbances, channel and delay, Transmission and enviror	capacity ment						

ÖK3	4	4	3	4	4	4	4	4	3	2	3	3	3	0	0	0	0	
ÖK2	4	4	3	3	3	4	4	4	2	2	3	3	3	0	0	0	0	
ÖK1	3	3	3	4	5	4	4	4	3	3	3	3	3	0	0	0	0	
	F	PQ1	PQ2	PQ3	PQ4	PQ5	PQ6	PQ7	PQ8	PQ9	PQ1 0	PQ11	PQ12	PQ1 3	PQ14	PQ15	PQ16	
25 CONTRIBUTION OF LEARNING OUTCOMES TO PROGRAMME QUALIFICATIONS																		
ECTS	Credit	t of tl	ne Co	urse												5.00		
Total w	al work load/ 30 hr														4.90			
Total W	I Work Load											1			147.00			
Final E	Exams						-	1			20.00	20.00			20.00			
Others	1								(0			0.00	0.00			0.00	
Course	urement and Evaluation Techniques Used in the							midterm and final exami			" 95.00 1\$.	s. S. 200 S. 200			**************************************			
Field St	Studies							(
Project	bjects											0.00	0.00			0.00		
Homew	neworks								14			5.00			70.00			
Contribution of Term (Year) Learning Activities to Self study and preperation Success Grade						40	40.00			0.00	0.00		0.00					
Practica	Practicals/Labs							0			0.00			0.00				
Activites						60,	Number 64,90			3.00	Duration (hour)			Load (hour)				
Midtern	n Exa	am					1		40	.00						T		
TERM L	.EARI	NING	ACTI	VITIES			N R	UMBE	WE	EIGHT								
23	Asse	esme	nt				_											
22	Textbooks, References and/or Other Materials:						Le Int Be	Lecture notes Introduction to Data Communications & Networking, Behrouz Foruzan										
14	DSL Technology																	
13	IEEE	802	2.11 N	IAC la	yer													
12	IEEE 802.11 protocol architecture.																	
11	Data link layer: multiple access techniques (TDMA, FDMA, CDMA)																	
10	Spread spectrum (FHSS, DSSS)																	
9	Multi	iplex	ing (F	DM W	/DM, ⁻	TDM)												
8	Asyr	Asynchronous RS232 serial communication																
7	Erro	r cor	rection	n tech	nique	s												
6	Flow HDL The	Flow control, error control and detection. HDLC. The data link control protocols																
5	Analog-digital signals, Analog data to analog signals																	
4	Codi	ing T	echni	ques														

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