	COMMUNICATION SYSTEMS										
1	Course Title:	СОММИ	NICATION SYSTEMS								
2	Course Code:	EEM340	2								
3	Type of Course:	Compuls	ory								
4	Level of Course:	First Cyc	le								
5	Year of Study:	3									
6	Semester:	6									
7	ECTS Credits Allocated:	6.00									
8	Theoretical (hour/week):	4.00									
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.	TUNCAY ERTAŞ								
15	Course Lecturers:	Prof. Dr.	Tuncay ERTAŞ								
16	Contact information of the Course Coordinator:	E-posta:tertas@uludag.edu.tr Tel: (224) 294 2013 Adres: Elektronik Mühendisliği Bölümü, 5. Kat, Ofis No:113									
17	Website:	http://home.uludag.edu.tr/~tertas									
18	Objective of the Course:	have a so	ze signals and systems in time and frequency domain. To bund understanding of communications systems with nodulation formats. To apply the basic concepts to the analysis of communication systems.								
19	Contribution of the Course to Professional Development:										
20	Learning Outcomes:										
		1	To sketch the discrete and continuous spectra of signals								
		2	To conduct noise analysis of analog modulation systems								
		3	To understand the optimum receiver principles								
		4	To find the BER for various mod.								
		5	To solve problems related to communication systems using Matlab.								
		6									
		7									
		8									
		10									
21	Course Content:										
\A.	T. C. 1	Со	urse Content:								
	Theoretical		Practice								
1	Signals and systems Double sideband modulations										
2		ations									
3	Single and vestigial sideband modula	สแบกร									
4	Angle Modulations										

6 Noise in AM systems													
7 Noise in EM systems	Noise in AM systems												
7 Noise in FM systems													
8 Repeating courses and midterm exam													
9 Sampling and pulse modulations													
10 Baseband pulse transmissions													
11 Baseband pulse transmissions													
Signal space and receiver types													
13 Bandpass digital modulations	Bandpass digital modulations												
14 Bandpass digital modulations cont.	Bandpass digital modulations cont.												
Materials: Communication Systems, I													
23 Assesment													
TERM LEARNING ACTIVITIES NUMBE WEIGHT Activites Number D	uration	(hour)	Total Work Load (hour)										
Homework-project 3 25100 3.0	.00		42.00										
	.00		0.00										
	.00		56.00										
1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	0.00		30.00										
	.00		0.00										
· I	.00		0.00										
	4.00		24.00										
	.00		0.00										
Final Sexams 1 28	8.00		28.00										
Total Work Load			180.00										
Total work load/ 30 hr			6.00										
ECTS Credit of the Course			6.00										
25 CONTRIBUTION OF LEARNING OUTCOMES T QUALIFICATIONS													
PQ1 PQ2 PQ3 PQ4 PQ5 PQ6 PQ7 PQ8 PQ9 PQ1 PQ11 PQ	12 PQ1	PQ14	PQ15	PQ16									
ÖK1 5 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									
ÖK3 5 0 0 0 0 0 0 0 0 0 0	0	0	0	0									
ÖK4 0 0 5 5 0 0 0 0 0 0 0	0	0	0	0									

ÖK5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Contrib ution Level:	1 '	very		т	ning C	bjec	1	s P Medi			m Qu 4 Higl	alifica n	itions		y High	