	A	G FILTERS							
1	Course Title:	ANALOG	FILTERS						
2	Course Code:	EEM510	1						
3	Type of Course:	Optional							
4	Level of Course:	Second (Cycle						
5	Year of Study:	1							
6	Semester:	1							
7	ECTS Credits Allocated:	6.00							
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 fa	ace						
14	Course Coordinator:	Prof. Dr.	FAHRİ VATANSEVER						
15	Course Lecturers:								
16	Contact information of the Course Coordinator:	Tel: (224 Web: http	elektrik-Elektronik Mühendisliği bölümü, No:311 4) 294 09 05 p://home.uludag.edu.tr/~fahriv fahriv@uludag.edu.tr						
17	Website:	http://home.uludag.edu.tr/~fahriv							
18	Objective of the Course:	To gain ability to understand analog filters' types, usage areas, basic analysis and design, and using this information theoretical and practical applications							
19	Contribution of the Course to Professional Development:	Ability to	perform analysis and designs of analog filters						
20	Learning Outcomes:								
		1	To gain ability to analyze analog filters						
		2	To gain ability to design analog filters						
		3	To gain ability to realize analog filters						
		4	To gain ability to analyze analog filters with software						
		5	To gain ability to design analog filters with software						
		6							
		7							
		8							
		9							
		10							
21	Course Content:		Out the state of t						
\\\/-	Theoretical	Со	urse Content:						
	Theoretical	ad thair	Practice						
1	Filtering, the types of analog filters ar usage areas								
2	Circuit elements which use in designing analog filter, their principle and chara	cteristics							
3	Computer programs for filter analysis design	and							
4	Normalization and sensitivity								

5	Time	Time and frequency response																		
6	Poles	Poles and zeros																		
7	Analo	nalog low-pass filter analysis and design																		
8	Gene	eneral review																		
9	Analo	nalog high-pass filter analysis and design																		
10	Analo	Analog band-pass filter analysis and design																		
11	Analo	g b	and-s	top filt	er ana	alysis a	nd de	esign												
12	Analog all-pass filter analysis and design																			
13	The c	The other filter types' analysis and design																		
14	The c	The other filter types' analysis and design																		
22	Textbooks, References and/or Other Materials:								F 2 3 C 4	1. Schaumann, R., Valkenburg, M.A.V., Design of Analog Filters, Oxford University Press, 2001. 2. Winder, S., Analog and Digital Filter Design, Newnes, 2002. 3. Huelsman, L.P., Active and Passive Analog Filter Design: An Introduction, McGraw-Hill Inc., Int. Ed., 1993. 4. Williams, A., Taylor, F., Electronic Filter Design Handbook, McGraw-Hill, 2006.										
23	Assesment																			
TERM L	LEARN	EARNING ACTIVITIES NUMBE								WEIGHT										
Midterr	n Exar	m					1		4	40.00										
Activit	ctivites									Num	ber		Dura	Duration (hour) Total Work Load (hour)						
theo te	Kem						1		6	0,40		3.00	3.00			42.00				
Practic	als/La	bs								0		0.00			0.00					
Contrib Self stu Succes	ution (g pr	erm (epera	rear) i	earn	ing Act	ivities	το	4	140		6.00			84.00					
Homew		<u>ue</u>								0			0.00			0.00				
Project		01 1	mar E	ran t	, 		raao		T	0.00			0.00			0.00				
Field S	tudies	;							14	0			0.00			0.00				
Meash	asurement and Evaluation Techniques Used in the								ne IV	/ipterm	and fir	nal exam	^{1\$} 24.00)		24.00				
Others										0						0.00				
Final E	Exams									1)	30.00					
Total V	al Work Load													180.00						
Total w	otal work load/ 30 hr															6.00				
ECTS	CTS Credit of the Course									6.00										
25										NING ALIFI			S TO I	PRO	GRAM	ME				
	Р	Q1	PQ2	PQ3	PQ4	PQ5	PQ6	PQ7	PQ	8 PQ9	1 -	PQ11	PQ12	PQ1	PQ14	PQ15	PQ16			
ÖK1	5		5	5	0	0	0	0	0	0	0	0	0	0	0	0	0			
ÖK2	5		5	5	5	0	0	0	0	0	0	0	0	0	0	0	0			

ÖK3

ÖK4

ÖK5	5	5	5	5	0	0	0	0	0	0	0	0	0	0	0	0
LO: Learning Objectives PQ: Program Qualifications																
ution Level:						3 Medium			4 High			5 Very High				