	INDUSTRIAL ELECTRONIC APPLICATIONS								
1	Course Title:	INDUST	RIAL ELECTRONIC APPLICATIONS						
2	Course Code:	EEM430	2						
3	Type of Course:	Optional							
4	Level of Course:	First Cyc	le						
5	Year of Study:	4							
6	Semester:	8							
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 f	ace						
14	Course Coordinator:	Öğr.Gör.	Dr. İSMAİL TEKİN						
15	Course Lecturers:	-							
16	Contact information of the Course Coordinator:	E-posta:i Tel: (224	: Dr. İsmail TEKİN itekin@uludag.edu.tr) 294 2030 lektrik - Elektronik Mühendisliği Bölümü, Ofis No:316						
17	Website:								
18	Objective of the Course:								
19	Contribution of the Course to Professional Development:	The ability to analyze and solve a problem with available data							
20	Learning Outcomes:								
		1	Learn power devices and their applications						
		2	Learn switching techniques of power devices						
		3	Learn sensor types and applications						
		4							
		5							
		6							
		7							
		8							
		9							
		10							
21	Course Content:								
1.0.7		Co	burse Content:						
	Theoretical		Practice						
1	Single phase and three phase AC / D converter circuits								
2	SMPS circuits and applications								
3	Sensor structures, function and types	3							
4	Sensors applications								

6	techniques Switching technic	ower trar	nd									
7	their applications	es and a	oplication	\$								
8	Midterm + review		phication	3								
9	Switching technic		wristors	triacs and	4							
	their applications											
10	Driver circuits											
11	Optocupler circuit	ts										
12	AC, DC motor dri	ver circui	its									
13	Stepper motor dri	ve circui	ts									
14	Relay and contac	tor drive	circuits									
22	Materials:					 Power Electronics : Converters, Applications, and Design, Ned Mohan, Tore M. Undeland, William P. Robbins,ISBN 471226939, 2002, Wiley Power Electronics : Circuits, Devices and Applications, Muhammad H. Rashid, ISBN 131011405, 2003, Prentice Hall Musayev E., "Optokuplörler ve Uygulamaları (Optoocuplers and their applications)", Birsen yayınevi, Istanbul, 2000, 202 s. ISBN 975-511-257-X Modern Industrial Electronics, Timothy J. Maloney, ISBN 130487414, 2003, Prentice Hall 						
Activites						Number		Duration (hour) Total Work Load (hou				
Th æ3 re	Assesment					14		3.00		42.00		
Practic	als/Labs]	0		0.00		0.00		
Andtei t	HE Rand preperatio	n		1	4	p1 0 0		3.00		42.00		
Homev	vorks					0		0.00		0.00		
Achiect	work-project			0	0.	00		0.00		0.00		
Field S	tudies					0		0.00		0.00		
Midterr	n exams			2	1	0.00		16.00		16.00		
rotar						0		0.00		0.00		
Others										20.00		
Others						1		20.00		20.00		
Others						1		20.00		136.00		
Others	жанıзde				1	1 00.00		20.00				
Others	xaନାଡ Vork Load	66			1	-		20.00		136.00		
Others	waffigide Vork Load vork load/ 30 hr Credit of the Cours	Se			th	-		Jludağ Univer		136.00 4.00 4.00		
Others Filler Total V Total w ECTS	waffigide Vork Load vork load/ 30 hr Credit of the Cours) TABL		th	00.00 e principles o		Jludağ Univer		136.00 4.00 4.00		

	FWI	FQZ	ruj	Γ\4	FQJ	ΓQU	FWI	FQO	FQJ	0	FULL		3		PQID	FQIO
ÖK1	0	3	2	3	0	0	0	0	0	0	0	0	0	0	0	0
ÖK2	0	4	3	4	0	0	0	0	0	0	0	0	0	0	0	0
ÖK3	0	4	3	3	0	0	0	0	0	0	0	0	0	0	0	0

LO: Learning Objectives PQ: Program Qualifications											
Contrib ution Level:	1 very low	2 low	3 Medium	4 High	5 Very High						