SERVO MOTOR MECHANISMS										
1	Course Title:	SERVO	MOTOR MECHANISMS							
2	Course Code:	MKRS23	36							
3	Type of Course:	Optional								
4	Level of Course:	Short Cy	cle							
5	Year of Study:	2								
6	Semester:	4								
7	ECTS Credits Allocated:	3.00								
8	Theoretical (hour/week):	2.00								
9	Practice (hour/week):	0.00								
10	Laboratory (hour/week):	0								
11	Prerequisites:	None								
12	Language:	Turkish								
13	Mode of Delivery:	Face to f	face							
14	Course Coordinator:	Öğr. Gör	. Dr. İSMET GÜCÜYENER							
15	Course Lecturers:	Öğr. Gör Yükseko elemanla	r. Ercan Yavuz, Öğr. Gör. Özcan Temel veya Meslek kulları Yönetim Kurullarının görevlendirdiği öğretim arı							
16	Contact information of the Course Coordinator:	ismetguc@uludag.edu.tr, 02242942349, U.Ü. TBMYO Mekatronik Prg. Bşk. Görükle Bursa								
17	Website:									
18	Objective of the Course:	In this co motor fee knowlede mechani	burse, the student will learn the servo motor structure, servo edback components and servo motor drivers, and gain the ge and skills to set up the servo motor movement sm and troubleshoot faults when necessary.							
19	Contribution of the Course to Professional Development:	The increvent vehicles, servo motors, l maintena developr	easing prevalence of servo motors, including electric brings about structural changes as a result of research on otors. It will provide the opportunity to understand servo earn feedback systems, and perform repair and ance operations according to new technological nents.							
20	Learning Outcomes:									
		1	Being able to connect the servo motor and its driver.							
		2	Being able to control of the power and data connection of the servo motor.							
		3	Being able to analysis according to feedback types.							
		4	Being able to replace of the bearings of the servo motor.							
		5	Being able to measure of the shaft swinging.							
		6	Being able to repair of the servo motor fault coils.							
		7	Being able to test of servo motor functions.							
		8	Being able to install of the linear servo motor systems.							
		9								
		10								
21	Course Content:									
		Co	ourse Content:							
Week	Theoretical		Practice							
1	Introduction to the servo motor and systems.	servo								

2	Brus princ	shed ciple	DC m and n	otor e nodel.	lemer	nts, wo	rking												
3	Brus cont	shed rol m	DC m	otor p ls.	ositio	n, spee	ed and	l torqu	ie										
4	Adju moto	Adjustment of commutation angles of DC motors.																	
5	Mod and	Modeling and control of brushless DC motors and drive systems.																	
6	Modeling and control of permanent magnet AC motors and drive systems.																		
7	Adjustment of commutation angles of AC motors.																		
8	Rep	eatin	g cou	rses F	irst m	idterm													
9	Che signa	cking al so) and cket c	repairi of the s	ng the servo	e powe motor	r sock	ket an	d										
10	Che	cking	and	remov	ing se	ervo mo	otor be	earing	s										
11	Dyna func	amic tions	test p	oroces	ses of	f the se	ervo m	otors											
12	Serv bölg	Servo motor seçimi kriterleri, çalışma bölgeleri.																	
13	Rep	Repeating courses Second midterm																	
14	Line	ar se	ervo s	/stems	s and	feedba	ack sy	/stems	S.										
22	22 Textbooks, References and/or Other Materials:									urse n	otes								
Activites							1	Numb	er		Dura	ition (hour)	Total Work Load (hour)					
17hietore	Middoreni Exam 2								40	Q O			2.00			28.00			
Practica	Practicals/Labs)			0.00	0.00			0.00		
Bernst	wayr kan	Pélopje	e þera	ition			0		0.0	94			2.00			28.00			
Homew	Homeworks								2	2			3.00			6.00			
萨哈 哈	S						3		100	9.00			0.00			0.00			
Field S	tudie	s							()			0.00			0.00			
Midtern	n exa								2	2			8.00			16.00			
Others	hers)			0.00			0.00			
FRIALE:	Exams									p.00			12.00)		12.00			
Total W	tal Work Load									-0000	oles o	BUISA		Unive	ISIIV AS	106.00			
Total w	Total work load/ 30 hr									Undergraduate Education Regulation						3.00			
ECISO	Credr	t of ti	ne Co	urse												3.00			
25	5 CONTRIBUTION OF LEARNING OUTCOMES TO PROGRAMME QUALIFICATIONS																		
	I	PQ1	PQ2	PQ3	PQ4	PQ5	PQ6	PQ7	PQ8	PQ9	PQ1 0	PQ11	PQ12	PQ1 3	PQ14	PQ15	PQ16		
ÖK1	1	1	1	1	5	4	4	4	4	5	4	5	0	0	0	0	0		
ÖK2		1	1	1	5	5	5	5	5	4	4	4	0	0	0	0	0		
ÖK3	2	2	2	2	3	3	5	5	3	2	4	4	0	0	0	0	0		
ÖK4	ŕ	1	1	4	3	3	3	2	4	4	4	4	0	0	0	0	0		

ÖK5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
ÖK6	3	3	3	3	4	3	5	4	5	5	5	0	0	0	0	0
ÖK7	3	3	4	4	5	5	4	3	3	4	4	0	0	0	0	0
ÖK8	3	4	3	5	5	5	5	3	4	5	4	0	0	0	0	0
LO: Learning Objectives PQ: Program Qualifications																
Contrib 1 very low ution Level:			2 low			3 Medium			4 High			5 Very High				