	ELEC	CTRO	FECHNOLOGY							
1	Course Title:	ELECTROTECHNOLOGY								
2	Course Code:	TEK201	1							
3	Type of Course:	Compute	sory							
4	Level of Course:	First Cyc	cle							
5	Year of Study:	2								
6	Semester:	3								
7	ECTS Credits Allocated:	5.00								
8	Theoretical (hour/week):	2.00								
9	Practice (hour/week):	0.00								
10	Laboratory (hour/week):	1								
11	Prerequisites:	None								
12	Language:	Turkish								
13	Mode of Delivery:	Face to	face							
14	Course Coordinator:	Prof. Dr.	RECEP EREN							
15	Course Lecturers:									
16	Contact information of the Course Coordinator:									
17	Website:									
18	Objective of the Course:	provide basic knowledge on electricity and magnetic field, to provide knowledge for electric and magnetic circuit analysis, to train student in understanding of working principles of transformers, dc motors, stepper motors, ac motors and servo motors, to train student in understanding of speed adjustment methods of dc motors, stepper motors, ac motors and servo motors, to provide knowledge on measurement systems and feedback control systems used with electric motors.								
19	Contribution of the Course to Professional Development:									
20	Learning Outcomes:		-							
		1	Being able to analyse electric and magnetic circuits							
		2	Being able to apply electric and magnetic field knowledge to electric motor operation							
		3	Being able to understand working principles and speed adjustment methods of electric motors							
		4	Being able to select a suitable electric motor for a specific application							
		5	Being able to understand basic structure and principle of operation of a feedback control system used with electric motors							
		6	Being able to understand advantages gained by textile technology by use of individual electric motors in textile machinery							
		7								
		8								
		9								
		10								
21	Course Content:									
		Co	ourse Content:							

Week	Theoretical								Pra	Practice										
1	Electric circuit basics, electric circuit analysis									Laboratory studies										
2	Electric circuit analysis									Laboratory studies										
3	Magnetic field and basic notions regarding magnetic field									Laboratory studies										
4	Mag	netic	circu	it anal	ysis				La	Laboratory studies										
5	Direo	ct cu	rrent r	notors	5				La	Laboratory studies										
6	Dired	ct cu	rrent r	notors	5				La	Laboratory studies										
7	Step	mot	ors						La	Laboratory studies										
8	Step	mot	ors						La	Laboratory studies										
9	Alter	natir	ng cur	rent m	otors				La	borato	ry stud	ies								
10	Alter	natir	ng cur	rent m	otors	(Midte	rm exa	am)	La	borato	ry stud	ies								
11	Alter	natir	ng cur	rent m	otors				La	borato	ry stud	ies								
12	Serv	o mo	otors						La	borato	ry stud	ies								
13	Spee	ed ar	nd pos	sition r	neası	iremen	t meth	nods	La	borato	ry stud	ies								
14	Feedback control systems used with motors								La	Laboratory studies										
22	Textbooks, References and/or Other Materials:									 1-R. EREN, Instructor prepared handouts "Electrotechnology", (in Turkish). 2-A.Hamdi SAÇKAN, Electric Machinery, Vol.III: Asencron Motors, Mart 1981, İZMİR (in Turkish). 3-Austin HUGHES, Elektrik Motors and Drives, 										
Activit	Activites									Numb	ber		Dura	Duration (hour)			Total Work Load (hour)			
Theore	tical			viiiiiiii			R			14				2.00			28.00			
Practica	als/La	abs							1	14			1.00		14.00					
Seli Zstu	Pstudy and preperation 0									0.99				5.00			70.00			
Homew	neworks									0				0.00			0.00			
Piropect	¥am						1		60	00			0.00	0.00			0.00			
Field S	d Studies									0				0.00			0.00			
Olicotterito	tterionationsTerm (Year) Learning Activities to									40100				14.00			14.00			
Others	hers									0				0.00			0.00			
Pinalie	xams								00	0400						24.00				
Total W	otal Work Load														· · · ·	150.00				
Metasw	Mataswrenkeradina0Ervaluation Techniques Used in the														5.00					
	Credit	t of th	ne Co VVOI	urse	UAD	ТАВ	LE			5.00										
25				CON				E I E				OME			RAM	MF				
25								(QUA											
	F	PQ1	PQ2	PQ3	PQ4	PQ5	PQ6	PQ7	PQ8	PQ9	PQ1 0	PQ11	PQ12	PQ1 3	PQ14	PQ15	PQ16			
ÖK1	Ę	5	2	3	4	4	0	2	0	0	3	0	0	0	0	0	5			
ÖK2	Ę	5	3	4	5	5	0	2	0	0	3	0	0	0	0	0	5			
ÖK3	Ę	5	2	3	4	4	0	1	0	0	3	0	0	0	0	0	5			
ÖK4	5	5	4	4	5	5	0	3	0	0	3	0	0	0	0	0	5			

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