	MEASU	IREME							
1	Course Title:	MEASU	REMENT TECHNIQUE						
2	Course Code:	ELEZ10	1						
3	Type of Course:	Compuls	SOLA						
4	Level of Course:	Short Cy							
5	Year of Study:	1							
6	Semester:	1							
7	ECTS Credits Allocated:	6.00							
8	Theoretical (hour/week):	2.00							
9	Practice (hour/week):	0.00							
10	Laboratory (hour/week):	2							
11	Prerequisites:	None							
12	Language:	Turkish							
13	Mode of Delivery:	Face to f	face						
14	Course Coordinator:	Öğr.Gör.	MEHMET ŞEN						
15	Course Lecturers:	-	. Dr. Barış ERKUŞ						
16	Contact information of the Course Coordinator:	mehmets	sen@uludag.edu.tr						
17	Website:								
18	Objective of the Course:	Learn ar electrica	nd define importance of measurement in applications, know I and electronic quantities						
19	Contribution of the Course to Professional Development:								
20	Learning Outcomes:								
		1	Know measurement faults and analyse statistically.						
		2	Define fundamental principals and features of measurement tolls						
		3	Design basic measurement tools						
		4	Choose correct measurement tools						
		5	Use more than one measurement tools in the same circuit						
		6							
		7							
		8							
		9							
	Course Contact	10							
21	Course Content:								
W/ook	Theoretical	CC	Practice						
vveek	Measurement, measurement units,								
	fundamental electrical quantities								
2	Measurement faults and its classific	ation							
3	Learn electrical quantities, working p and stuructures of tools, dc measure tools, measurements by galvonome	ement							
4	Features and structures of electrody measurement tools, correctness and resolutions of measurement tools.								

5	Volta	Voltage and current measurement in DC.																	
6	Measurement of different quantities in AC.																		
7	Voltage and current transformers and their use.																		
8	Structure of electrodynamic measurement tools and Wattmeters																		
9	Electrical power and power factor, and their measurements of in single phase AC.																		
10	Power measurements in balanced and unbalanced(aron) 3 phase loads.																		
11	Energy measurement, active and reactive energy measurement tools, their structures and working principals.																		
12	Use and structures of oschiloscopes and diffrent applications.																		
13	Industrial measurements, sensors and transducers, different applications																		
14	Lab application exam and assestment of reports.																		
Materials:								De Ölç ve ve Ale	1.)Prof. Dr. Abdi DALFES, Elektrik Ölçme Laboratuarı Deneyleri 2.) Doç. Dr. H.Pastacı, "Elektrik ve Elektronik Ölçmeleri", Yıldız Üni., 1992 3.)Hasan ÖNAL, Elektronik ve Ölçme Dersleri 4.)Kadir ANASIZ, Elektrik Ölçü Aletleri ve Elektriksel Ölçmeler 5.)Saip DEVELİ, Elektriksel Ölçme Aletleri ve Elektriksel Ölçmeler 6.) Hasan ÖNAL, Ölçme Tekniği 7. Nacor Mobmut: Elektrik Elektronik Ölemeleri ve Number										
Terme	tical k	JING	ACTI	VITIES			N	UMBE		WEIGHT									
Practica													_						
Self stu			epera	tion			!			00									
									ممل										
Homeworks										0									
Field St	vom-	3								<u> </u>									
Midtern							Ľ			5.00									
Operating of Terre (Veen) Learning Activities to								<u> </u>											
Einal E	xams																		
Final Exams Contribution of Final Exam to Success Grade Total Work Load								160	00										
Total work load/ 30 hr									5.00										
ECTS Credit of the Course														e	6.00				
24	ECT	rs /	WO	RK L	OAD	TAB	LE												
25				CON	TRIB	UTIO	N OI			RNING OUTCOMES TO PROGRAMME JALIFICATIONS									
	F	PQ1	PQ2	PQ3	PQ4	PQ5	PQ6	PQ7	PQ8	PQ9	PQ1 0	PQ11	PQ12	PQ1 3	PQ14	PQ15	PQ16		
ÖK1	4	ł	3	3	0	3	3	3	3	4	3	3	4	0	0	0	0		
ÖK2	3	3	0	0	0	0	0	0	4	0	0	0	0	0	0	0	0		
ÖK3	4	ļ	4	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
ÖK4	4	1	5	0	0	0	0	0	4	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
LO: Learning Objectives PQ: Program Qualifications																
Contrib 1 very low ution Level:			2	2 low			3 Medium			4 High			5 Very High			