ELECTRICAL MEASUREMENT TECHNIQUES										
1	Course Title:	ELECTRICAL MEASUREMENT TECHNIQUES								
2	Course Code:	EEM4104								
3	Type of Course:	Optional								
4	Level of Course:	First Cycle								
5	Year of Study:	4								
6	Semester:	8								
7	ECTS Credits Allocated:	4.00								
8	Theoretical (hour/week):	2.00								
9	Practice (hour/week):	0.00								
10	Laboratory (hour/week):	2								
11	Prerequisites:	-								
12	Language:	Turkish								
13	Mode of Delivery:	Face to face								
14	Course Coordinator:	Öğr. Gö	r. Dr. ERDEM ÖZÜTÜRK							
15	Course Lecturers:	1-								
16	Contact information of the Course Coordinator:	E-posta:ozuturk@uludag.edu.tr Tel: (224) 294 2021 Adres: Elektronik Mühendisliği Bölümü 1. Kat, No:111								
17	Website:									
18	Objective of the Course:	To give fundamentals of measurement principles, techniques and instrumentation. To ensure that the student can make or conduct measurements accurately and can design basic measurement instruments. To improve the student's measurement experience.								
19	Contribution of the Course to Professional Development:									
20	Learning Outcomes:									
		1	Ability to apply theoretical and practical knowledge for modeling and solving engineering problems in the field of electrical measurement technique							
		2	Ability to solve, formulate and identify complex engineering problems encountered in the field of electrical measurement technique by selecting the appropriate analysis and modeling methods.							
		3	Ability to design complex system in electrical measurement under realistic constraints and conditions by applying modern design methods							
		4	Ability to develope, select and use modern techniques and tools for electrical measurement technique.							
		5	Ability to interpret the results and collect the data for analysing engineering problems in the field of electrical measurement.							
		6								
		7								
		8								
		9								
		10								
21	Course Content:									
Course Content:										

Week	Theoretical		Practice							
1	The Principles of Measurement and Instrumentation									
2	The Principles of Measurement and Instrumentation									
3	The Principles of Measurement and Instrumentation									
4	DC Current Measurement 1. Experiment									
5	DC Current Measurement 2. Experiment									
6	DC Current Measurement 3. Experiment									
7	DC Current Measurement 4. Experiment									
8	1. Midterm Exam + Review of Past L	ecturers								
9	DC Current Measurement									
10	AC Current measurement 5. Experiment									
11	AC Current measurement									
Activit	6 Experiment es			Number	Duration (hour)	Total Work Load (hour)				
Theore	ical Problem solving		F	14	2.00	28.00				
	als/Labs			14	2.00	28.00				
S 22 stu	JesthookepBeferences and/or Other		1.	Pastacı, H., Elektrik v	ஆ ந் ektronik Olçmel	arj, Yoldız				
Homew						0.00				
Project	6		O	lemeleri (Problemler, N eknik Üniversitesi, İsta	odern Olçme Teki	મુંદ્ર ક્ રિતા), Yıldız				
Field St	tudies		Н	0	0.00	0.00				
Midtern	n exams		U	nyversitesi Mühendislik Pastacı H. Abbasoŏl	Jakültesi, İstanbul	40.83. eler Yıldız				
Others			4	0	0.00	0.00				
Final E	kams		5.	Bouwens, A., J., Digit	al Instrumentation,	MeGraw Hill,				
Total W	/ork Load			730		165.00				
T 23 w	ራት ዩ∃⊜ ạch/⊖310 hr					5.50				
ECTS (Credit of the Course					4.00				
Midtern	n Exam	2	50.00							
Quiz 0				0.00						
Home work-project 0				0.00						
Final Exam 1				50.00						
Total		3	100.00							
	ution of Term (Year) Learning Activities	es to	50.00							
Contrib	ution of Final Exam to Success Grade)	50.00							
Total			100.00							
Measur Course	rement and Evaluation Techniques Us									

24 E	CTS/	TS / WORK LOAD TABLE														
25		CONTRIBUTION OF LEARNING OUTCOMES TO PROGRAMME QUALIFICATIONS														
	PQ1	PQ2	PQ3	PQ4	PQ5	PQ6	PQ7	PQ8	PQ9	PQ1 0	PQ11	PQ12	PQ1 3	PQ14	PQ15	PQ16
ÖK1	5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
ÖK2	0	5	0	0	0	0	0	0	0	0	0	0	0	0	0	0
ÖK3	0	0	5	0	0	0	0	0	0	0	0	0	0	0	0	0
ÖK4	0	0	0	5	0	0	0	0	0	0	0	0	0	0	0	0
ÖK5	0	0	0	0	5	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	3 Medium		4 High		5 Very High						