

ELECTRICITY LABORATORY

1	Course Title:	ELECTRICITY LABORATORY
2	Course Code:	FZK2051
3	Type of Course:	Compulsory
4	Level of Course:	First Cycle
5	Year of Study:	2
6	Semester:	3
7	ECTS Credits Allocated:	1.00
8	Theoretical (hour/week):	0.00
9	Practice (hour/week):	0.00
10	Laboratory (hour/week):	2
11	Prerequisites:	None
12	Language:	Turkish
13	Mode of Delivery:	Face to face
14	Course Coordinator:	Prof. Dr. NİL KÜÇÜK
15	Course Lecturers:	Yok
16	Contact information of the Course Coordinator:	nilkoc@uludag.edu.tr, (0224) 29 41 705, Prof. Dr. Nil KÜÇÜK, BUÜ Fen Edebiyat Fakültesi, Fizik Bölümü, 16059 Görükle Kampüsü, Bursa
17	Website:	
18	Objective of the Course:	Verifying Ohm's Law, Learning the conversion of electrical energy to heat energy, Be able to measure the "L" induction coefficient of a current loop, Determining the frequency of alternating current with stable wave method, Determining the capacitance of a capacitor, Verifying Faraday's laws, Learning to use the Wheatstone bridge, Applying Kirchhoff's laws, To be able to measure the magnetic forces acting on the current passing wire To establish a relationship between this information and the events they encounter in their daily life or work environment and to benefit from this information.
19	Contribution of the Course to Professional Development:	To establish a relationship between the information learned and the events they encounter in daily life or work environment and to benefit from this information.
20	Learning Outcomes:	
	1	Learns how to connect voltmeter and ammeter to the circuit and how to read it.
	2	Learns how electrical energy transforms into heat energy and the relationship between them.
	3	Learns the difference between direct voltage and alternating voltage.
	4	It can find the frequency of alternating current.
	5	Gains information about capacitor and coil from circuit elements.
	6	Learn Faraday's laws.
	7	Learns the feature and usage of Wheatstone bridge.
	8	Can apply Kirchhoff's laws.
	9	It can measure the magnetic forces acting on the current passing wire.
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21	Course Content:	
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ÖK5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
ÖK6	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
ÖK7	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
ÖK8	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
ÖK9	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
LO: Learning Objectives PQ: Program Qualifications																
Contribution Level:	1 very low			2 low			3 Medium			4 High			5 Very High			