	ELECT	RICIT	Y LABORATORY						
1	Course Title:	ELECTR	RICITY LABORATORY						
2	Course Code:	FZK205	1						
3	Type of Course:	Compuls	sory						
4	Level of Course:	First Cyc	cle						
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.						
		10							
21	Course Content:								
		Co	ourse Content:						

Week	The	eoretical		Practice								
1				Registration for the course, determination of experimental groups								
2				Experiment-1: Ohm's law								
3				Experiment 2: Joul	e's law							
4				Experiment-3: Measuring electromotive force with potentiometer								
5				Experiment-4: Measuring the "L" induction coefficient of a current reel								
6				Experiment-5: Alte	rnating current frequenc	у						
7				Experiment-6: Res	istance-capacitance cyc	les						
8				Experiment-7: Cap	acitance measurement							
9				Experiment-8: Elec	etrolysis							
10				Experiment-9: Dete Wheatstone bridge	ermination of resistance	with						
11				Experiment-10: Kir	chhoff's laws							
12				Experiment-11: Magnetic acting on a current passing wire measurement of forces								
13				Practice exam								
14				General evaluation								
22		tbooks, References and/or Other erials:		1. FZK 2051_Elect Physics Departme	rical Laboratory Experim	nent Guide,						
Activit	tes			Number	Duration (hour)	Total Work Load (hour)						
Theore	tical	NING ACTIVITIES	NUMBE R	WEIGHT	0.00	0.00						
Practic	als/L	abs		14	2.00	28.00						
Qeliz stu	ıdy a	and preperation	0	0.00	0.00	0.00						
Homew	vorks	3		0	0.00	0.00						
Pinjed	≱am		1	6 <mark>0</mark> ,000	0.00	0.00						
Field S	tudie	es		0	0.00	0.00						
Wishtens	NO (PO)	ৰিজিFTerm (Year) Learning Activition	es to	40100	1.00	1.00						
Others				0	0.00	0.00						
Eimatrit)Xdilor:	s of Final Exam to Success Grade	Э	60100	1.00							
Total W	Vork	Load				31.00						
Metalsw	rerke	পরিপার Peraluation Techniques Us	sed in the	The system of rela	tive evaluation is applied	1.00						
		it of the Course				1.00						
24	EC	TS / WORK LOAD TABLE										
25		CONTRIBUTION (RNING OUTCO	MES TO PROGRAM	ME						

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	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
ÖK2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
ÖK3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
ÖK4	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 2 low 3 Medium 4 High 5 Very High ution																
ÖK9	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
ÖK7	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
ÖK5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0