	ELECTRICITY AN	ND MA	AGNETISM LABORATORY							
1	Course Title:	ELECTR	ICITY AND MAGNETISM LABORATORY							
2	Course Code:	FZK1054	1							
3	Type of Course:	Compuls	sory							
4	Level of Course:	First Cyc	ele							
5	Year of Study:	1								
6	Semester:	2								
7	ECTS Credits Allocated:	2.00								
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 f	ace							
14	Course Coordinator:	Prof. Dr.	NİL KÜÇÜK							
15	Course Lecturers:	Yok								
16	Contact information of the Course Coordinator:	Prof. Dr.	uludag.edu.tr, (0224) 29 41 705, Nil KÜÇÜK, BUÜ Fen Edebiyat Fakültesi, Fizik Bölümü, örükle Kampüsü, Bursa							
17	Website:									
18	Objective of the Course:	heat ene current lo stable wa Verifying Applying forces ac between	fying Ohm's Law, Learning the conversion of electrical energy to tenergy, Be able to measure the "L" induction coefficient of a ent loop, Determining the frequency of alternating current with ble wave method, Determining the capacitance of a capacitor, fying Faraday's laws, Learning to use the Wheatstone bridge, lying Kirchhoff's laws, To be able to measure the magnetic es acting on the current passing wire To establish a relationship ween this information and the events they encounter in their daily 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	UNDERSTANDS BASIC CONCEPTS OF ELECTRICITY AND MAGNETISM							
		2	RECOGNIZES AND USES CIRCUIT ELEMENTS							
		3	CAN DESIGN AND INSTALL ELECTRICAL CIRCUITS							
		4	ACQUIRES SKILLS TO ANALYZE EXPERIMENTAL RESULTS							
		5	GAINS SKILLS TO WORK INDIVIDUALLY AND IN TEAM							
		6								
		7								
		8								
		9								
		10								
21	Course Content:									
		Co	purse Content:							
Week	Theoretical		Practice							
1			DETERMINATION OF EXPERIMENTAL GROUPS							

2										INFORMATION AND RULES ABOUT THE LABORATORY COURSE									
3									Ex	Experiment-1: OHM'S LAW									
4										Experiment-2: RESISTANCE MEASUREMENT WITH WHEATSTONE BRIDGE									
5									Ex CA	perime APACI	ent-3: ( TOR T	CHARG HROU	E AND 3H THE	DISCI RESI	HARGE STOR	OF A			
6										Experiment-4: FINDING THE DIELECTRIC CONSTANT OF DIFFERENT MATERIALS									
7									Ex	Experiment-5: TRANSFORMERS									
8									Ex	perime	ent-6: N	MAGNE	TIC FIE	ELD O	F A CO	IL			
9													REMEN MHOLT			ETIC FIE	ELD		
10									Ex WI	perime	ent-8: \ SLA C	WIRELE COIL	SS EN	ERGY	TRAN:	SMISSIC	N		
11									PF	RACTIO	CAL EX	XAM							
12									RE	PEAT	EXPE	RIMEN	IT						
13									RE	PEAT	EXPE	RIMEN	IT						
14											GENERAL EVALUATION								
	Materials:								2.	Experiment Guide, Physics Department, 2024. 2. Physics 2. Volume, F.J.Keller & W.E.Gettys, Mc Graw Hill-Literatür., Istanbul 1996.									
Activi	ites								I	Numb	er	er Duration (hou					Total Work Load (hour)		
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								1.93											
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25	•		(	CON	IRIE	SU FIC	N O				CATIC		STO	PKO(	GRAM	ME			
		PQ1	PQ2	PQ3	PQ4	PQ5	PQ6	PQ7	PQ8	PQ9	PQ1	PQ11	PQ12	PQ1	PQ14	PQ15	PQ16		
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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	4	3	4	5	3	4	3	0	3	1	4	3	0	0	0	0
ÖK2	4	3	4	5	0	0	3	0	1	2	2	3	0	0	0	0
ÖK3	4	3	2	5	0	2	3	0	3	3	2	3	0	0	0	0
ÖK4	4	3	4	5	0	4	3	0	3	1	4	3	0	0	0	0

ÖK5	4	3	4	5	0	4	3	0	3	1	4	3	0	0	0	0
ÖK6 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0																
Contrib 1 very low 2 low 3 Medium 4 High 5 Very High Level:																