	В	ASIC	PHYSICS II								
1	Course Title:	BASIC F	PHYSICS II								
2	Course Code:	FZK1072	2								
3	Type of Course:	Compuls	sory								
4	Level of Course:	First Cyc	cle								
5	Year of Study:	1									
6	Semester:	2									
7	ECTS Credits Allocated:	6.00									
8	Theoretical (hour/week):	3.00									
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:	Dr. Ögr.	Üyesi ZERRİN KIRCA								
15	Course Lecturers:										
16	Contact information of the Course Coordinator:	dnilgun@uludag.edu.tr, 0224 2941702, UÜ Fen Edebiyat Fakültes Fizik Bölümü 16059 Görükle Kampüsü Bursa									
17	Website:										
18	Objective of the Course:	The aim of course is to teach concepts related to electricity and magnetism, to explain electricity laws and relation of between the physical concepts. To teach how is applied the physic laws to solve the problems.									
19	Contribution of the Course to Professional Development:										
20	Learning Outcomes:										
		1	The student can solve engineering problems by using the basic concepts of electricity and magnetism.								
		2	The student can produce the solution to complex problems.								
		3	The student can follow the scientific developments.								
		4	The student can reinforce own information by doing the experiments in laboratory.								
		5	The student can be analyzed the results.and can be interpret.								
		6	The student know the working principle of the basic circuit elements.								
		7									
		8									
		9									
	I	10									
21	Course Content:										
10/	T	Co	ourse Content:								
	Theoretical	- ۲ میداد	Practice								
1	Electric Charges, Insulators and Cor Coulomb's law		Working conditions in the laboratory, the creation of groups, and general information about laboratory								
2	Electric Field, Electric Field of Contin Charge Distribution, Electric Field Lir		Drawing graph and determine the ways to be followed conclusions based on the received results								

	Cause I am and Anniestions	l	Caulambalau								
3	Gauss Law and Applications		Coulombs law								
4	Electric Potential and Energy		Determination of the electric field plate capacitor								
5	Capacitance and Dielectrics		Joule law								
6	Current and Resistance		Alternative flow frequency								
7	Direct Current Circuits		Wheatstone bridge								
8	Midterm exam + repeating cources		Midterm exam + repeating cources								
9	Magnetic Fields		The calculation of inductance L								
10	Sources of the Magnetic Field		Biot Savart law								
11	Faraday's Law / Inductance,		Measurement of the r current	Measurement of the magnetic forces acting on the wire current							
12	Alternative Current Circuits		Determination of the dielectric coefficients of different substances								
13	Alternative Current Circuits		Control of the test reports								
14	Maxwell Equations		Control of the test rep	orts							
22	Textbooks, References and/or Other Materials:		 Raymond A. Serway, John W., (1995). "Fen ve Mühendislik için Fizik" cilt 2, Palme Yayıncılık. Hugh D. Young, Roger A. Freedman, (2007) "Üniversite Fiziği "Cilt 2, Pearson Education Yayıncılık. Fishbane, Gasiorowicz, Thornton "Temel Fizik, Cilt 2" 								
23	Assesment	•									
Activit	tes		Number	Total Work Load (hour)							
Дhepore	tical	0	o 00	3.00	42.00						
Practic	als/Labs		14	2.00	28.00						
BielásE	kanand preperation	1	6 016 0	3.00	42.00						
Homew	vorks		0	0.00 0.00							
Ethiau	Setion of Term (Year) Learning Activities	es to	4000	0.00	0.00						
Field S			0	0.00							
Ototrteilo	พน่ยงลูเดเรา	e	60100	2.00 2.00							
Others			14	5.00	70.00						
Fieals	refilent and Evaluation Techniques Us	sed in the	1	2.00	2.00						
	Vork Load				186.00						
Total w	FGTS/WORK LOAD TABLE				6.20						
ECTS (Credit of the Course				6.00						
25	CONTRIBUTION		RNING OUTCOME JALIFICATIONS	ES TO PROGRAM	IME						

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	5	0	0	5	0	5	0	0	0	0	0	0	0	0	0
ÖK2	0	5	0	0	5	0	0	0	0	0	0	0	0	0	0	0
ÖK3	0	0	0	0	0	0	0	0	0	5	0	0	0	0	0	0
ÖK4	0	0	0	0	0	0	5	0	0	0	0	0	0	0	0	0

ÖK5	5	5	0	0	5	0	0	0	0	0	0	0	0	0	0	0
ÖK6 0 0 5 5 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:																