	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:										
13	Mode of Delivery: Face to face										
14	Course Coordinator: Prof. Dr. ÖZKAN ŞAHİN										
15	Course Lecturers:	ourse Lecturers: Doç. Dr. Ürkiye Akar TARIM									
16	Contact information of the Course Coordinator:	Prof. Dr. Özkan ŞAHİN E-mail: osahin@uludag.edu.tr İş Tel:(0224)2941706 Adres: BUÜ Fen Edebiyat Fakültesi, Fizik Bölümü, 16059 Görükle Kampusü, Bursa									
17	Website:	none									
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:	Gains the ability to solve electric and magnetism problems.									
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									
		10									
21	Course Content:										
		Co	ourse Content:								
	Theoretical		Practice								
1	Electric Charges, Insulators and Conductors, Coulomb's law Working conditions in the laboratory, the creation of groups, and general information about laboratory										

2	Electric Field, Electric Field of Continu Charge Distribution, Electric Field Lin		Drawing graph and determine the ways to be followed conclusions based on the received results							
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 in	ductance L						
10	Sources of the Magnetic Field		Biot Savart law							
11	Faraday's Law / Inductance,		Measurement of the current	magnetic forces acti	ng on the wire					
12	Alternative Current Circuits		Determination of the substances	dielectric coefficients	s of different					
13	Alternative Current Circuits		Control of the test re	ports						
14	Maxwell Equations		Control of the test re	ports						
22 Activi	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" Number Duration (hour) Total Work 							
Theore	etical	R	14	3.00	Load (hour)					
Practic	cals/Labs	4	14	2.00	28.00					
Self st	udy and preperation	0	0 0 0	3.00	42.00					
Home		^	0	0.00	0.00					
Final E	-xam ds	1	80,00	0.00	0.00					
	Studies		0	0.00	0.00					
Midter	oution of Term (Year) Learning Activitie m exams ss Grade	es to	40,00	2.00	2.00					
Others			14	5.00	70.00					
Final E	Exams		1	2.00	2.00					
	Work Load				188.00					
Weasy Course	rement and Evaluation Techniques Us	ed in the	Measurement and e	valuation are carried sa Uludaŭ University	out according to Associate and					
	Credit of the Course		THE THIRDINES OF DUE	ar Chinad Chilversily	6.00					
24	ECTS / WORK LOAD TABLE									
25	CONTRIBUTION C)FIFAI	RNING OUTCOM	IES TO PROGRA	MMF					

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 ution Level:										5 Ver	y High					