	В	ASIC	PHYSICS II					
1	Course Title:	BASIC PHYSICS II						
2	Course Code:	FZK1072						
3	Type of Course:	Compulsory						
4	Level of Course:	First Cycle						
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:	Yrd. Doç. Dr. Zerrin KIRCA						
16	Contact information of the Course Coordinator:	Yrd. Doç. Dr. Zerrin KIRCA zkirca@uludag.edu.tr, 0224 2941704, UÜ Fen Edebiyat Fakültesi, 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					
			The student can reinforce own information by doing the experiments in laboratory					
			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:					
Week	Theoretical		Practice					
1	Electric Charges, Insulators and Cor Coulomb's law	nductors,	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 Li			Drawing graph and determine the ways to be followed conclusions based on the received results							
3	Gauss Law and Applications		Co	Coulombs law Determination of the electric field plate capacitor							
4	Electric Potential and Energy		Determination of the electric field plate capacitor								
5	Capacitance and Dielectrics		Jo	Joule law							
6	Current and Resistance		Alternative flow frequency								
7	Direct Current Circuits		W	Wheatstone köprüsü							
8	Midterm exam + repeating cources		Midterm exam + repeating cources								
9	Magnetic Fields		Th	ne calculation of induct	ance L						
10	Sources of the Magnetic Field		Bi	ot Savart law							
11	Faraday's Law / Inductance,		Measurement of the magnetic forces acting on the wire current								
12	Alternative Current Circuits		Determination of the dielectric coefficients of different substances								
Activit	es			Number	Duration (hour)	Total Work Load (hour)					
Th le4 bre	Maxwell Equations		П	14	3.00	42.00					
Practic	als/Labs			14	2.00	28.00					
Self stu	dyateniats peration		S	≨r4way, John W., vol.2,	(3 90905) Palme,	42.00					
Homew	vorks			14	3.00	42.00					
Project	8		3	(Fundamentals of Phy	⁄6i© €vol.2", David H	l a∬o ay, Robert					
Field S				0	0.00	0.00					
	N EXAMS EARNING ACTIVITIES	NUMBE	l vo	1 FIGHT	2.00	2.00					
Others				14	2.00	28.00					
MiddleEn	nating m	1	40	100	2.00	2.00					
Total W	/ork Load					186.00					
Hotalew	wookklepardjesoo hr	0	0.0	00		6.20					
ECTS (Credit of the Course					6.00					
Total		2	_	100.00							
Contribution of Term (Year) Learning Activities to Success Grade				40.00							
Contrib	ution of Final Exam to Success Grad	le	60.00								
Total			10	100.00							
Measu Course	rement and Evaluation Techniques U	sed in the									
24	ECTS / WORK LOAD TABLE										

25	CONTRIBUTION OF LEARNING OUTCOMES TO PROGRAMME QUALIFICATIONS																
	PQ1	PQ2	PQ3	PQ4	PQ5	PQ6	PQ7	PQ8	PQ9	PQ1 0	PQ11	PQ12	PQ1	PQ14	PQ15	PQ16	
ÖK1	3	2	3	3	3	3	0	0	0	0	0	0	0	0	0	0	
ÖK2	3	3	3	3	4	3	0	0	0	0	0	0	0	0	0	0	
ÖK3	3	3	3	3	3	3	0	0	0	0	0	0	0	0	0	0	
ÖK4	3	3	4	4	3	4	0	0	0	0	0	0	0	0	0	0	
ÖK5	4	3	4	3	3	4	0	0	0	0	0	0	0	0	0	0	
ÖK6	3	3	4	4	3	4	0	0	0	0	0	0	0	0	0	0	
			LO: L	_earr	ning C	Dbjed	tive	s P	Q: P	rogra	ım Qu	alifica	tions	<u> </u>			
Contrib ution Level:	n			2	2 low			3 Medium			4 High			5 Very High			