BASIC 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 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.							
		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:									
10/	Course Content:									
	Theoretical	- ۲ د داد	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							

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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 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 reports					
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							
TERM L	EARNING ACTIVITIES	NUMBE R	WEIGHT					
Midtern	n Exam	1	40.00					
Quiz		0	0.00					
Home v	vork-project	0	0.00					
Final E	xam	1	60.00					
Total		2	100.00					
Contribution of Term (Year) Learning Activities to Success Grade		es to	40.00					
Contribution of Final Exam to Success Grade			60.00					
Total			100.00					
Measur Course	rement and Evaluation Techniques Us	sed in the						
24	ECTS / WORK LOAD TABLE							

Activites	Number	Duration (hour)	Total Work Load (hour)
Theoretical	14	3.00	42.00
Practicals/Labs	14	2.00	28.00
Self study and preperation	14	3.00	42.00
Homeworks	0	0.00	0.00
Projects	0	0.00	0.00
Field Studies	0	0.00	0.00
Midterm exams	1	2.00	2.00
Others	14	5.00	70.00
Final Exams	1	2.00	2.00
Total Work Load			186.00
Total work load/ 30 hr			6.20
ECTS Credit of the Course			6.00

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
LO: Learning Objectives PQ: Program Qualifications																
Contrib 1 very low ution Level:		2	2 low			3 Medium		4 High		5 Very High						