BASIC PHYSICS II											
1	Course Title:	BASIC PHYSICS II									
2	Course Code:	FZK1072									
3	Type of Course:	Compuls	sory								
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:	There is	no course prerequisite								
12	Language:	Turkish									
13	Mode of Delivery:	Face to face									
14	Course Coordinator:	Doç. Dr. Hüseyin Ovalıoğlu									
15	Course Lecturers:										
16	Contact information of the Course Coordinator:	Doç. Dr. Hüseyin OVALIOĞLU E-mail: ovali@uludag.edu.tr İş Tel: 0 224 29 41 691 Adres: Bursa Uludağ Üniversitesi Fen Edebiyat Fakültesi Fizik Bölümü, 16059 Görükle Kampüsü BURSA									
17	Website:	·									
18	Objective of the Course:	The aim of this 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:	The aim of this 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.									
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:								
Week	Week Theoretical Practice										

1	Electric Charges, Insulators and Con Coulomb's law	ductors,	Working conditions in the laboratory, the creation of groups, and general information about laboratory						
2	Electric Field, Electric Field of Contin		Drawing graph and determine the ways to be followed conclusions based on the received results						
	Charge Distribution, Electric Field Lin	nes	Coulombs law						
3	Gauss Law and Applications								
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 courses		Midterm exam + repeating courses						
9	Magnetic Fields		The calculation of inductance L						
10	Sources of the Magnetic Field		Biot Savart law						
11	Faraday's Law		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:		1. Raymond A. Serway, John W., (1995). "Physics for Scientists and Engineers"cilt 2, Palme Yayıncılık						
			2. Hugh D. Young, Roger A. Freedman, (2007) "University Physics "Cilt 2, Pearson Education Yayıncılık"						
			3. Fishbane, Gasiorowicz, Thornton "Fundamental Physics, Cilt 2"						
23	Assesment								
	I LEARNING ACTIVITIES	NUMBE	WEIGHT						
		R							
	n Exam	1	40.00						
Quiz		0	0.00						
Home \	work-project	0	0.00						
Final E	xam	1	60.00						
Total		2	100.00						
	oution of Term (Year) Learning Activitiess Grade	es to	40.00						
Contrib	oution of Final Exam to Success Grade	9	60.00						
Total			100.00						
Measur Course	•	sed in the	One midterm and one final exam will be held to understand how much the information about this course has been learned.						
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	14	5.00	70.00
Projects	0	0.00	0.00
Field Studies	0	0.00	0.00
Midterm exams	1	2.00	2.00
Others	0	0.00	0.00
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	0	0	0	0	0	0	0	0	0	0	0	0
ÖK2	5	5	0	0	0	0	0	0	0	0	0	0	0	0	0	0
ÖK3	0	0	0	0	0	0	0	5	0	0	0	0	0	0	0	0
ÖK4	0	0	0	0	5	5	0	0	0	0	0	0	0	0	0	0
ÖK5	5	5	5	0	0	0	0	0	0	0	0	0	0	0	0	0
ÖK6	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
LO: Learning Objectives PQ: Program Qualifications																
Contrib 1 ve ution Level:		very low 2 low			3 Medium			4 High			5 Very High					