PHYSICS II

1	Course Title:	PHYSICS II	
2	Course Code:	FZK1084	
3	Type of Course:	Compulsory	
4	Level of Course:	First Cycle	
5	Year of Study:	1	
6	Semester:	2	
7	ECTS Credits Allocated:	4.00	
8	Theoretical (hour/week):	3.00	
9	Practice (hour/week):	0.00	
10	Laboratory (hour/week):	0	
11	Prerequisites:	There is no course prerequisite	
12	Language:	Turkish	
13	Mode of Delivery:	Face to face	
14	Course Coordinator:	Doç. Dr. MÜRŞİDE ŞAFAK HACIİSMAİLOĞLU	
15	Course Lecturers:	Fizik Bölümü Öğretim Elemanları	
16	Contact information of the Course Coordinator:	Doç. Dr. Mürşide HACIİSMAİLOĞLU E-mail: msafak@uludag.edu.tr İş Tel: 0 224 29 41 711 Adres: 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	
19	Contribution of the Course to Professional Development:	It develops the skill that will help the student to define the problem he / she encounters, develop solutions to the problem and reach the result by providing analytical thinking skills.	
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 be analyzed the results.and can be interpret.
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21	Course Content:		

Course Content:

Week	Theoretical	Practice
1	Electric Charges, Insulators and Conductors, Coulomb's law	
2	Electric Field, Electric Field of Continuous Charge Distribution, Electric Field Lines	

3	Gauss Law and Applications	
4	Electric Potential and Energy	
5	Capacitance and Dielectrics	
6	Current and Resistance	
7	Direct Current Circuits	
8	Midterm exam + repeating courses	
9	Magnetic Fields	
10	Sources of the Magnetic Field	
11	Faraday's Law	
12	Alternative Current Circuits	
13	Alternative Current Circuits	
14	Maxwell Equations	

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	

TERM LEARNING ACTIVITIES	**NUMBER**	**WEIGHT**
Midterm Exam	1	40.00
Quiz	0	0.00
Home work-project	0	0.00
Final Exam	1	60.00
Total	2	100.00
Contribution of Term (Year) Learning Activities to Success Grade		40.00
Contribution of Final Exam to Success Grade		60.00
Total		100.00
Measurement and Evaluation Techniques Used in the Course		The system of relative evaluation is applied.

24	**ECTS / WORK LOAD TABLE**

Activites	Number	Duration (hour)	Total Work Load (hour)
Theoretical	14	3.00	42.00
Practicals/Labs	0	0.00	0.00
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	15.00	15.00
Others	0	0.00	0.00
Final Exams	1	15.00	15.00
Total Work Load			129.00
Total work load/ 30 hr			3.80
ECTS Credit of the Course			4.00

25	CONTRIBUTION OF LEARNING OUTCOMES TO PROGRAMME QUALIFICATIONS															
	PQ1	**PQ2**	**PQ3**	**PQ4**	**PQ5**	**PQ6**	**PQ7**	**PQ8**	**PQ9**	**PQ10**	**PQ11**	**PQ12**	**PQ13**	**PQ14**	**PQ15**	**PQ16**
ÖK1	0	0	0	0	3	0	0	0	0	0	0	0	0	0	0	0
ÖK2	0	0	0	0	0	0	0	4	4	4	0	0	0	0	0	0
ÖK3	0	0	0	0	0	0	0	4	4	4	0	0	0	0	0	0
ÖK4	0	0	0	0	0	0	0	4	4	4	0	0	0	0	0	0

LO: Learning Objectives PQ: Program Qualifications

Contribution Level:	1 very low	2 low	3 Medium	4 High	5 Very High