PHYSICS II

1	Course Title:	PHYSICS II
2	Course Code:	FZK1090
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:	None
12	Language:	Turkish
13	Mode of Delivery:	Face to face
14	Course Coordinator:	Doç.Dr. NİL KÜÇÜK
15	Course Lecturers:	Prof.Dr.İlker KÜÇÜK Doç. Dr. Nil KÜÇÜK
16	Contact information of the Course Coordinator:	e-mail: nilkoc@uludag.edu.tr Tel: 0 224 29 41 705 U.Ü., Fen Edebiyat Fakültesi, Fizik Bölümü 16059 Görükle Kampüsü/Bursa
17	Website:	
18	Objective of the Course:	Teaching the fundamentals of Physics.
19	Contribution of the Course to Professional Development:	
20	Learning Outcomes:	
	1	The fundamental knowledge of physics is obtained.
	2	Many potential solutions can be produced for a given problem.
	3	Problems can be analysed by different point of view.
	4	The mutual relationship between problems and subjects are able to be recognised.
	5	The independent ability of learning is developed.
	6	The subjects and relations between them are understood.
	7	The variables in the process can be interpreted.
	8	The datum can be analysed and explained.
	9	
	10	
21	Course Content:	

Course Content:

Week	Theoretical	Practice
1	Electric Charge	
2	Electric Field	
3	Gauss' Law	
4	Electric Potential	
5	Capacitors and Dielectrics	

6	Currents in Materials	
7	Midterm Exam Repetition of lecture	
8	Direct-Current Circuits	
9	The Effects of Magnetic Fields	
10	The Production and Properties of Magnetic Fields	
11	Faraday's Law, Magnetism and Matter	
12	Inductance and Circuit Oscillations	
13	Alternating Currents	
14	Maxwell's Equations and Electromagnetic Fields	

22	Textbooks, References and/or Other Materials:	1. “Physics for Scientists and Engineers”, Raymond A. Serway, John W., (1995) Palme. 2. “University Physics”, Hugh D. Young, Roger A. Freedman, (2007) Pearson Education. 3. “Fundamentals of Physics”, David Halliday, Robert Resnick, (2008), Wiley.

23 Assesment

TERM LEARNING ACTIVITIES	**NUMBER**	**WEIGHT**
Final Exam	1	60.00
Contribution of Term (Year) Learning Activities to		40.00
Contribution of Final Exam to Success Grade		60.00
Measurement and Evaluation Techniques Used in the		

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	5.00	70.00
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	2	1.00	2.00
Final Exams	1	2.00	2.00
Total Work Load			118.00
Total work load/ 30 hr			3.93
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	4	2	2	0	2	4	4	0	4	3	0	3	0	0	0	0
ÖK2	4	2	2	0	2	4	4	0	4	3	0	3	0	0	0	0
ÖK3	4	3	3	0	2	4	4	0	4	3	0	3	0	0	0	0
ÖK4	4	3	3	0	2	4	4	0	4	3	0	3	0	0	0	0

ÖK5	4	3	3	0	2	4	4	0	4	3	0	3	0	0	0	0
ÖK6	4	3	3	0	2	4	4	0	4	3	0	3	0	0	0	0
ÖK7	4	3	3	0	2	4	4	0	4	3	0	3	0	0	0	0
ÖK8	4	3	3	0	2	4	4	0	4	3	0	3	0	0	0	0

LO: Learning Objectives PQ: Program Qualifications

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