	PHYSICS II									
1	Course Title:	PHYSIC	S II							
2	Course Code:	FEN100	2							
3	Type of Course:	Compuls	sory							
4	Level of Course:	First Cyc	ele							
5	Year of Study:	1								
6	Semester:	2								
7	ECTS Credits Allocated:	3.00								
8	Theoretical (hour/week):	2.00								
9	Practice (hour/week):	2.00								
10	Laboratory (hour/week):	0								
11	Prerequisites:	None								
12	Language:	Turkish								
13	Mode of Delivery:	Face to face								
14	Course Coordinator:	Doç. Dr. REMZIYE ERGÜL								
15	Course Lecturers:									
16	Contact information of the Course Coordinator:	ergulr@uludag.edu.tr, 2242942293								
17	Website:									
18	Objective of the Course:	To provide basic conceptual understanding about electricity and magnetism, to apply the principles of physics to different situations and to develop necessary problem solving skills.								
19	Contribution of the Course to Professional Development:	Creates and develops the knowledge base of the prospective teacher.  Comprehends the concepts related to the field and the relations between concepts based on the competencies gained in secondary education.  Have defines and analyzes problems related to his field, and develops solutions based on evidence and research.								
20	Learning Outcomes:									
		1	Interprets the basic concepts, laws and principles of electricity.							
		2	Interprets the basic concepts, laws and principles of magnetism.							
			Suggests solutions to problems by using the necessary calculation methods related to electricity.							
			Suggests solutions to problems by using the necessary calculation methods related to magnetism.							
			Evaluates the reflections of the subjects related to electricity and magnetism on technology and daily life.							
		6								
		7								
		8								
		9								
		10								
21	Course Content:									
10.	Course Content:									
Week	Theoretical Practice									

1		ctric charge and protection, electri	ification,	Making classroom prac	ctices and examples						
2	Cou	lomb's law, electric field		Making classroom practices and examples							
3	Elec	ctric flux, Gauss's law and applica	tions	Making classroom practices and examples							
4	Elec	ctric potential energy, electric pote	ential	Making classroom practices and examples							
5		acitor, capacitance and dielectrics ding in energy and energy.	5,	Making classroom practices and examples							
6		ect current, resistance and Ohm's necting resistors, self-resistance	Law,	Making classroom practices and examples							
7		ect current circuits. Kirchhoff's Lav tion of circuit problems.	vs,	Making classroom practices and examples							
8		ect current circuits. Kirchhoff's Lav tion of circuit problems.	vs,	Making classroom practices and examples							
9	Mag	netism, magnetic field, magnetic	force	Making classroom prac	ctices and examples						
10	Elec	ctromagnetic induction, Faraday's	law,	Making classroom prac	ctices and examples						
11		ter and magnetism, magnetic pronatter	perties	Making classroom prac	ctices and examples						
12	AC	generators, electric motors, trans	formers.	Making classroom prac	ctices and examples						
13	mat	at and temperature, thermal prope ter (core heat, thermal conductivit mal expansion)		Making classroom practices and examples							
14		rmodynamic laws, reversible and versible events, efficiency and ent		Making classroom practices and examples							
	1-			5111 511 6 1		O.T. 1000					
Activit	tes			Number	Duration (hour)	Total Work Load (hour)					
Theore	ical			Bueche, J.,F., Jerde, A yayıncılık	,2.6dzik ilkeleri, cilt	28.00me					
Practic	als/L	abs		14	2.00	28.00					
Self stu	dy a	nd preperation		0	0.00	0.00					
Homew	vorks			5	2.00	10.00					
Project	ts		R	0	0.00	0.00					
Field Studies				0	0.00	0.00					
Midterm exams 0				0.00	10.00 10.00						
Others				0	0.00 0.00						
Final Exams 1				6 <b>0</b> 100	15.00	15.00					
Total Work Load						101.00					
Cotatrilo	otiot	oat/730mi(Year) Learning Activitie	es to	40.00		3.03					
ECTS Credit of the Course					3.00						
				60.00							
Total				100.00							
Measur Course		nt and Evaluation Techniques Us		Midterm exam with multiple choice or open-ended questions,							
24	EC	TS / WORK LOAD TABLE									
25	25 CONTRIBUTION OF LEARNING OUTCOMES TO PROGRAMME										

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ÖK3	5	1	1	5	5	1	1	1	5	4	1	1	1	1	1	1
ÖK4	5	1	1	5	5	1	1	1	5	4	1	1	1	1	1	1
ÖK5	5	1	1	5	5	1	1	1	5	4	1	1	1	1	1	1
LO: Learning Objectives PQ: Program Qualifications																
Contrib 1 very low ution Level:			2 low		3 Med		um	um 4 High		n	5 Very High					