	GE	NERA	L PHYSICS II						
1	Course Title:	GENERAL PHYSICS II							
2	Course Code:	FZK107	4						
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:	5.00							
8	Theoretical (hour/week):	4.00							
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:	Prof. Dr. MUHITDIN AHMETOĞLU							
15	Course Lecturers:								
16	Contact information of the Course Coordinator:	afrailov@uludag.edu.tr, 0 224 294 16 99, UÜ Fen Edebiyat Fakültesi, Fizik Bölümü 16059 Görükle Kampüsü Bursa							
17	Website:								
18	Objective of the Course:	To teach the student the basic concepts and laws of electric and magnetic fields, to explain the relationship between concepts. To explain how to apply the laws of physics to problem solving.							
19	Contribution of the Course to Professional Development:	The student gains the ability to deepen the knowledge of electricity and magnetism and to examine the effects on systems by following the latest developments in the field.							
20	Learning Outcomes:								
		1	The student learn basic electric and magnetic field concepts and use them in their own field.						
		2	The student can produce the solution to complex problems.						
		3	The student can follow and interpret the developments in the scientific field.						
		4	The student can be analyzed the results and can be interpret.						
		5	The student know the working principle of the basic circuit elements.						
		6							
		7							
		8							
		9							
		10							
21	Course Content:								
		Co	ourse Content:						
Week	Theoretical		Practice						
1	Electric Charges, Insulators and Cor Coulomb's law	nductors,							

3 Gauss's Law 4 Electric Potential and Energy 5 Capacitance and Dielectrics 6 Current and Resistance 7 Direct Current Circuits 8 Magnetic Fields 9 Sources of Magnetic Field 10 Faraday's Law 11 Inductance 12 Alternating Current Circuits 13 Problems 14 General review  1 Inductance Inductanc	als of Photonics s, 1986) Longman, Inc,	
5 Capacitance and Dielectrics 6 Current and Resistance 7 Direct Current Circuits 8 Magnetic Fields 9 Sources of Magnetic Field 10 Faraday's Law 11 Inductance 12 Alternating Current Circuits 13 Problems 14 General review  1 Textbooks, References and/or Other Materials:  1 O. Svelto, Principles of Lasers, (4 ed: Plei Pres, 2007) 2 B.E.A.Saleh and M.C.Teich, Fundamenta (2 ed John Wiley & Sons Inc, 2007)	als of Photonics s, 1986) Longman, Inc,	
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7 Direct Current Circuits  8 Magnetic Fields  9 Sources of Magnetic Field  10 Faraday's Law  11 Inductance  12 Alternating Current Circuits  13 Problems  14 General review  1. O. Svelto, Principles of Lasers, (4 ed: Plen Pres, 2007)  2. B.E.A.Saleh and M.C.Teich, Fundamenta (2 ed John Wiley & Sons Inc, 2007)	als of Photonics s, 1986) Longman, Inc,	
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4. E.Hecht, Optics, 4 ed. (Addison Wesley L 2001) 5. R.W.Boyd, Nonlinear Optics (3 ed Acader 2008)		
Activites Number Duration (hour)	Total Work Load (hour)	
Theoretical 1 40.00 4.00	56.00	
	0.00	
Self study and preperation 0 0 0 0 0 5.00	70.00	
	12.00	
Projects 2 100.00 0.00	0.00	
	0.00	
Sticteess exame 1 0.00	0.00	
Others 6 2.00	12.00	
Final Exams 100.00 2.00	2.00	
	152.00	
Totalswork load/ 30 hr the priciples of Bursa Uludag University Ass	560ate and	
	5.00	
24 ECTS / WORK LOAD TABLE		
25 CONTRIBUTION OF LEARNING OUTCOMES TO PROGRAM QUALIFICATIONS		
PQ1 PQ2 PQ3 PQ4 PQ5 PQ6 PQ7 PQ8 PQ9 PQ1 PQ11 PQ12 PQ1 PQ14	PQ15 PQ10	
ÖK1 0 0 3 3 3 0 4 0 0 0 0 0	0 0	
ÖK2 0 0 0 3 3 3 0 4 0 0 0 0 0	0 0	
ÖK3 0 0 0 3 3 3 0 4 0 0 0 0 0	0 0	
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ÖK5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
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