

FACULTY OF ENGINEERING
1st Year 2nd Semester

FIZ 104 Physics II					FACULTY OF ENGINEERING				
Semester	Methods of Education						Credits		
	Lecture	Recit.	Lab.	Project/ Field Study	Homework	Other	Total	Credit	ECTS Credit
2	56		-	-	42	63	161	4	6.0
Language	Turkish / English								
Compulsory / Elective	Compulsory								
Prerequisites	None								
Course Contents	Electric Fields, Gauss's Law, Electrical Potential, Capacitance and Dielectrics, Electric Current and Resistance, Direct Current, Magnetic Fields, Magnetic Fields Sources, Faraday's Law, Inductance, Alternating Current Circuit, Electromagnetic Waves, The Nature of Light and Laws of Geometric Optic, Interference, Diffraction and Polarization of Light Waves								
Course Objectives	The goal of this course is to understand the basic concepts of physics and facilitate the understanding of solutions and analysis of engineering problems								
Learning Outcomes and Competences	The problem-solving ability is developed owing to understanding of basic physics concepts.								
Textbook and /or Reference	PHYSICS, For Scientists and Engineers with Modern Physics, R.Serway,Saunders College Publishing, 1990.								
Assessment Criteria							If any, mark as (x)	Percentage (%)	
	Midterm Exams						X	60	
	Quizzes						-	-	
	Homeworks						-	-	
	Projects						-	-	
	Term Paper						-	-	
	Laboratory Work						-	-	
	Other						-	-	
Final Exam						X	40		
Instructors									
Week	Subject								
1	Electric Fields								
2	Gauss's Law								
3	Electrical Potential								
4	Capacitance and Dielectrics								
5	Electric Current and Resistance								
6	Direct Current Circuits								
7	Magnetic Fields, Magnetic Fields Sources								
8	I. MIDTERM								
9	Faraday's Law, Inductance								
10	Alternating Current Circuit, Electromagnetic Waves								
11	II. MIDTERM								
12	The Nature of Light and Laws of Geometric Optic								
13	Interference of Light Waves								
14	Diffraction and Polarization								