

AYDIN ADNAN MENDERES UNIVERSITY COURSE INFORMATION FORM

Course Title		Physics II							
Course Code		FİZ162		Couse Leve	əl	First Cycle (B	achelor's De	egree)	
ECTS Credit	5	Workload	124 <i>(Hours)</i>	Theory	3	Practice	0	Laboratory	0
Objectives of the Course		To teach the fundamental topics of electricity and magnetism							
Course Content		Electrical charge and matter, Coulomb's Law and Gauss'Law, Electric field, Electrical Potential, Capasitance and dielectrics, electric currentand resistance, DC circuits, electromotive force and circuits, Magnetic field, sources of magnetic field, Ampere's Law, Faraday's Law Inductioan, AC circuits							
Work Placement		N/A							
Planned Learning Activities and Teaching Methods			Explanation	ation (Presentation), Experiment, Problem Solving					
Name of Lecturer(s)		Assoc. Prof. N	lelis GÖKÇE,	Lec. Onur G	SENÇ, Prof.	. Aytaç Gürhar	n GÖKÇE		

Prerequisites & Co-requisities

Prerequisite

FİZ161

Assessment Methods and Criteria

Method	Quantity	Percentage (%)	
Midterm Examination		1	30
Final Examination		1	70
Quiz		4	10

Recommended or Required Reading

1	Fen ve Mühendislik için Fizik II", Palme Yayıncılık, Ankara. Çeviri Editorü: Prof. Dr. Kemal Çolakoğlu; Editörler: R.A. Serway, R.C. Beichner, J.W. Jevett.
2	Üniversite Fiziği, Cilt 2, Çeviri Editörü: Hilmi Ünlü; Editörler: H. D. Young, R. A. Freedman

Week	Weekly Detailed Course Contents			
1	Theoretical	Electric charge and matter		
2	Theoretical	Coulomb's Law and Gauss's law		
3	Theoretical	Electric field and Gauss's law		
4	Theoretical	Electrical Potential		
5	Theoretical	Electrical Potential		
6	Intermediate Exam	Midterm		
7	Theoretical	Capacitance and dielectrics		
8	Theoretical	Electrical current and resistance		
9	Theoretical	Direct current circuits		
10	Theoretical	Electromotive force and circuits		
11	Theoretical	Magnetic fields		
12	Theoretical	Magnetic field sources		
13	Theoretical	Ampere's law, Faraday's law		
14	Theoretical	Induction		
15	Theoretical	Alternative Current circuits		
16	Final Exam	FINAL EXAM		

Workload Calculation

Activity	Quantity	Preparation	Duration	Total Workload
Lecture - Theory	15	3	3	90
Quiz	4	1	0.5	6
Midterm Examination	1	10	2	12



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Final Examination	1		14	2	16
			Тс	otal Workload (Hours)	124
		ד]	otal Workload (Hours) / 25*] = ECTS	5
*25 hour workload is accepted as 1 ECTS					
Learning Outcomes					

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1	To learn the fundamentals of charge and matter	
2	To learn the fundamentals of the electric field	
3	To learn the fundamentals of Capacitors	
4	To learn the fundamentals of magnetic field	
5	To learn the fundamentals of inductance	
6	To learn the fundamentals of the electromagnetic waves	