



T.C.
İSTANBUL TEKNİK ÜNİVERSİTESİ
FEN EDEBİYAT FAKÜLTESİ
FİZİK MÜHENDİSLİĞİ BÖLÜMÜ
MASLAK 34469 İSTANBUL



FIZ 102E – 2021/2022 Fall

TEXTBOOK:

H. D. Young and R. A. Freedman, University Physics 12th Ed. Pearson (2008).
or
H. D. Young and R. A. Freedman, University Physics 14th Ed. Pearson (2016).

SUPPLEMENTARY TEXT:

1. D. C. Giancoli, Fen Bilimcileri ve Mühendislik için Fizik (Dördüncü Baskıdan Çeviri), Akademi (2009).
2. D. Halliday, R. Resnick & J. Walker, Fundamentals of Physics (8th Ed.), John Wiley (2008).
3. R. A. Serway & J. W. Jewett, Physics for Scientists and Engineers (7th Ed.), Brooks Cole (2007).

Week	Date	Chapter	Topics
1	4 Oct 2021	Chapter 21	Electric Charge and Electric Field (21.1 – 21.7)
2	11 Oct 2021	Chapter 22	Gauss's Law (22.1 – 22.5)
3	18 Oct 2021	Chapter 22	Gauss's Law (22.1 – 22.5)
4	25 Oct 2021	Chapter 23	Electric Potential (23.1 – 23.5)
5	1 Nov 2021	Chapter 24	Capacitance and Dielectrics (24.1 – 24.4)
6	8 Nov 2021	Chapter 25	Current, Resistance and Electromotive force (25.1 – 25.5)
7	15 Nov 2021	Chapter 26	Direct-Current Circuits (26.1 – 26.5)
	22 Nov 2021		
8	29 Nov 2021	Chapter 26	Direct-Current Circuits (26.1 – 26.5)
9	6 Dec 2021	Chapter 27	Magnetic Field and Magnetic Forces (27.1 – 27.7)
10	13 Dec 2021	Chapter 28	Sources of Magnetic Field - Biot Savart & Ampere's laws (28.1 – 28.7)
11	20 Dec 2021	Chapter 29	Electromagnetic Induction - Faraday's law (29.1 – 29.5, 29.7)
12	27 Dec 2021	Chapter 30	Inductance – Inductors (30.1 – 30.6)
13	3 Jan 2022	Chapter 32	Electromagnetic Waves (32.1 – 32.5)
14	10 Jan 2022	Chapter 32	Electromagnetic Waves (32.1 – 32.5)

Exams:

Midterm : Dec 11th. Chapter 21 – Chapter 26 (Includes Chapter 26)

Final Exam : Jan 17 –30, 2022 (Exact date and time will be announced by the Student Administration Office.)
(Includes all chapters).

Homeworks: Homework I – Nov 13rd, Homework II – Dec 25th.

Letter Grade Weights:

Midterm : 40 %

Homework : 20 % (2 Homework x 10%)

Final : 40 %

Attendance:

Students failing to score at least 25% (i.e. 15 out of 60) on the in-term assessments (midterm and homework) will not be allowed to attend the final exam and will be graded **VF**.

Please keep track of the webpage of Physics Eng. Dept, not to miss any announcements!