



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



FIZ 102E – 2023 Summer Semester

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. R. A. Serway & J. W. Jewett, Physics for Scientists and Engineers (7th Ed.), Brooks Cole (2007).
2. D. Halliday, R. Resnick & J. Walker, Fundamentals of Physics (8th Ed.), John Wiley (2008).

Week	Date	Chapter	Topics
1	4 July 2023	Chapter 21	Electric Charge and Electric Field (21.1 – 21.7)
1	5 July 2023	Chapter 22	Gauss's Law (22.1 – 22.5)
2	11 July 2023	Chapter 23	Electric Potential (23.1 – 23.5)
2	12 July 2023	Chapter 24	Capacitance and Dielectrics (24.1 – 24.4)
3	18 July 2023	Chapter 25	Current, Resistance and Electromotive force (25.1 – 25.5)
3	19 July 2023	Chapter 26	Direct-Current Circuits (26.1 – 26.5)
	22 July 2023		Midterm
4	25 July 2023	Chapter 27	Magnetic Field and Magnetic Forces (27.1 – 27.7)
4	26 July 2023	Chapter 28	Sources of Magnetic Field - Biot Savart & Ampere's laws (28.1 – 28.7)
5	1 August 2023	Chapter 29	Electromagnetic Induction - Faraday's law (29.1 – 29.5, 29.7)
5	2 August 2023	Chapter 30	Inductance – Inductors (30.1 – 30.6)
6	8 August 2023	Chapter 32	Electromagnetic Waves (32.1 – 32.5)
6	9 August 2023	Chapter 32	Electromagnetic Waves (32.1 – 32.5)

Exams

Midterm : 22nd of July 2023 10:00.

Final Exam : (12 – 20 August 2023) Exact date and time will be announced by the Student Administration Office.
Includes all chapters.

Assessment of the Grades

Midterm : 50 %

Final exam : 50 %

Attention

Students failing to score at least 30 % (i.e. 15 out of 50) on the in-term midterm will not be allowed to attend the final exam and will be graded **VF**.

No **VF** will be given from attendance.

The exams will be multiple-choice exam with negative marking (each wrong answer cancels 1/4th of a correct one).

The exams will be **in-class**.

Please keep track of the web page of Physics Eng. Dept, not to miss any announcements.