



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



## FIZ 102E – 2021/2022 Spring

### 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	21 February 2022	Chapter 21	Electric Charge and Electric Field (21.1 – 21.7)
2	28 February 2022	Chapter 22	Gauss's Law (22.1 – 22.5)
3	07 March 2022	Chapter 22	Gauss's Law (22.1 – 22.5)
4	14 March 2022	Chapter 23	Electric Potential (23.1 – 23.5)
5	21 March 2022	Chapter 24	Capacitance and Dielectrics (24.1 – 24.4)
6	28 March 2022	Chapter 25	Current, Resistance and Electromotive force (25.1 – 25.5)
7	04 April 2022	Chapter 26	Direct-Current Circuits (26.1 – 26.5)
8	11 April 2022	Chapter 26	Direct-Current Circuits (26.1 – 26.5)
9	18 April 2022	Chapter 27	Magnetic Field and Magnetic Forces (27.1 – 27.7)
10	25 April 2022	Chapter 28	Sources of Magnetic Field - Biot Savart & Ampere's laws (28.1 – 28.7)
	02 May 2022*		
11	09 May 2022	Chapter 29	Electromagnetic Induction - Faraday's law (29.1 – 29.5, 29.7)
12	16 May 2022	Chapter 30	Inductance – Inductors (30.1 – 30.6)
13	23 May 2022	Chapter 32	Electromagnetic Waves (32.1 – 32.5)
14	30 May 2022	Chapter 32	Electromagnetic Waves (32.1 – 32.5)

\* Spring break

### Exams

Midterm : Exact date and time will be announced.

Final Exam : (06 – 19 June 2022) Exact date and time will be announced by the Student Administration Office.  
Includes all chapters.

### Homeworks

Homework I – Exact date and time will be announced. Homework II – Exact date and time will be announced.

### Assessment of the Grades

Midterm : 40 %

Homework : 20 % (2 Homework x 10 %)

Final exam : 40 %

### Attention

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 web page of Physics Eng. Dept, not to miss any announcements.