



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



## PHYSICS 102E – 2019/2020 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 Muhendislik 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	10 February 2020	Chapter 21	Electric Charge and Electric Field (21.1 – 21.7)
2	17 February 2020	Chapter 22	Gauss's Law (22.1 – 22.5)
3	24 February 2020	Chapter 22	Gauss's Law (22.1 – 22.5)
4	2 March 2020	Chapter 23	Electric Potential (23.1 – 23.5)
5	9 March 2020	Chapter 24	Capacitance and Dielectrics (24.1 – 24.4)
6	6 April 2020	Chapter 25	Current, Resistance and Electromotive force (25.1 – 25.5)
7	13 April 2020	Chapter 26	Direct-Current Circuits (26.1 – 26.5)
8	20 April 2020	Chapter 27	Magnetic Field and Magnetic Forces (27.1 – 27.7)
9	27 April 2020	Chapter 28	Sources of Magnetic Field - Biot Savart & Ampere's laws (28.1 – 28.7)
10	4 May 2020	Chapter 28	Sources of Magnetic Field - Biot Savart & Ampere's laws (28.1 – 28.7)
11	11 May 2020	Chapter 29	Electromagnetic Induction - Faraday's law (29.1 – 29.5, 29.7)
12	18 May 2020	Chapter 30	Inductance – Inductors (30.1 – 30.6)
13		Chapter 32	Electromagnetic Waves (32.1 – 32.5)
14		Chapter 32	Electromagnetic Waves (32.1 – 32.5)

### Exams:

~~1<sup>st</sup> Midterm : 21 March, 2020 (Includes Chapter 21, 22, 23, 24)~~

~~2<sup>nd</sup> Midterm : 9 May, 2020 (Includes Chapter 25, 26, 27, 28, 29)~~

Final Exam : May 28 – June 14, 2020. Exact date and time will be announced by the Student Administration Office (Includes all Chapters).

### Letter Grade Weights:

~~1<sup>st</sup> Midterm : 30 %~~

~~2<sup>nd</sup> Midterm : 30 %~~

Final : 100 %

### Attendance:

~~You have to attend at least 70% of the lectures. This is not the requirement of Physics Department but our University.<sup>1</sup> In addition, in order to take the final exam, you have to take at least the total 15.0 points over 60.0 from the midterms.~~

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