



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



## PHYSICS 101E – 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 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	10 February 2020	Chapter 1	Units, Physical Quantities, and Vectors
2	17 February 2020	Chapter 2 and 3	Kinematics
3	24 February 2020	Chapter 4	Newton's Laws of Motion
4	2 March 2020	Chapter 5	Applying Newton's Laws
5	9 March 2020	Chapter 6	Work and Kinetic Energy
6	6 April 2020	Chapter 7	Potential Energy and Energy Conservation
7	13 April 2020	Chapter 8	Momentum, Impulse, and Collisions
8	20 April 2020	Chapter 8	Momentum, Impulse, and Collisions
9	27 April 2020	Chapter 9	Kinematics of Rotational Motion
10	4 May 2020	Chapter 10	Dynamics of Rotational Motion
11	11 May 2020	Chapter 10	Dynamics of Rotational Motion
12	18 May 2020	Chapter 12	Gravitation
13		Chapter 13	Periodic Motion
14		Chapter 13	Periodic Motion

### Exams:

1<sup>st</sup> Midterm : 21 March, 2020 (includes from chapter 1 to chapter 7)

2<sup>nd</sup> Midterm : 9 May, 2020 (includes from chapter 7 to chapter 10)

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. 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!