



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



## PHYSICS 101E – 2020/2021 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	19 October 2020	Chapter 1	Units, Physical Quantities, and Vectors
2	26 October 2020	Chapter 2 and 3	Kinematics
3	2 November 2020	Chapter 4	Newton's Laws of Motion
4	9 November 2020	Chapter 5	Applying Newton's Laws
5	16 November 2020	Chapter 6	Work and Kinetic Energy
6	23 November 2020	Chapter 7	Potential Energy and Energy Conservation
7	30 November 2020	Chapter 8	Momentum, Impulse, and Collisions
8	7 December 2020	Chapter 8	Momentum, Impulse, and Collisions
9	14 December 2020	Chapter 9	Kinematics of Rotational Motion
10	21 December 2020	Chapter 10	Dynamics of Rotational Motion
11	28 December 2020	Chapter 10	Dynamics of Rotational Motion
12	4 January 2021	Chapter 12	Gravitation
13	11 January 2021	Chapter 13	Periodic Motion
14	18 January 2021	Chapter 13	Periodic Motion

### Exams:

Midterm : December 19, 2020 (Includes Chapter ....)

Final Exam : January 25 –February 7, 2021 (Exact date and time will be announced by the Student Administration Office.) (Includes all chapters).

### Letter Grade Weights:

Midterm : 40 %

Homework : 20 % (5 Homework x 4%)

Final : 40 %

### Attendance:

In order to take the final exam, you have to take at least the total 18.0 % over 60.0 % from the midterm and homework's.

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