



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

FIZ 101E – 2021/2022 Spring

TEXTBOOK

H. D. Young and R. A. Freedman, University Physics 12th-14th Ed. Pearson (2008, 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 1	Units, Physical Quantities and Vectors
2	28 February 2022	Chapter 2 & 3	Kinematics
3	07 March 2022	Chapter 4	Newton's Laws of Motion
4	14 March 2022	Chapter 5	Applying Newton's Laws
5	21 March 2022	Chapter 6	Work and Kinetic Energy
6	28 March 2022	Chapter 7	Potential Energy and Energy Conservation
7	04 April 2022	Chapter 8	Momentum, Impulse and Collisions
8	11 April 2022	Chapter 8	Momentum, Impulse and Collisions
9	18 April 2022	Chapter 9	Kinematics of Rotational Motion
10	25 April 2022	Chapter 10	Dynamics of Rotational Motion
	02 May 2022*		
11	09 May 2022	Chapter 10	Dynamics of Rotational Motion
12	16 May 2022	Chapter 12	Gravitation
13	23 May 2022	Chapter 13	Periodic Motion
14	30 May 2022	Chapter 13	Periodic Motion

* Spring break

Exams

Midterm : 24 April 2022, 13.00-15.00. Includes Chapter 1-8

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

Homeworks

Homework I – 03 April 2022 Exact time and details will be announced.

Homework II – 15 May 2022 Exact time and details 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.