



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



PHYSICS 101E – 2023/2024 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	12 February 2024	Chapter 1	Units, Physical Quantities, and Vectors
2	19 February 2024	Chapter 2 and 3	Kinematics
3	26 February 2024	Chapter 4	Newton's Laws of Motion
4	4 March 2024	Chapter 5	Applying Newton's Laws
5	11 March 2024	Chapter 6	Work and Kinetic Energy
6	18 March 2024	Chapter 7	Potential Energy and Energy Conservation
7	25 March 2024	Chapter 8	Momentum, Impulse, and Collisions
8	1 April 2024	Chapter 8	Momentum, Impulse, and Collisions
	8 April 2024		Semester Break
9	15 April 2024	Chapter 9	Kinematics of Rotational Motion
10	22 April 2024	Chapter 10	Dynamics of Rotational Motion
11	29 April 2024	Chapter 10	Dynamics of Rotational Motion
12	6 May 2024	Chapter 12	Gravitation
13	13 May 2024	Chapter 13	Periodic Motion
14	20 May 2024	Chapter 13	Periodic Motion

Exams:

Midterm I: 2024 Saturday, 13:00 – 15:00. Topics: Chapter 1 – Chapter 5

Midterm II: 2024 Saturday, 13:00 – 15:00. Topics: Chapter 1 – Chapter 9

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

Letter Grade Weights: Midterm I : 30%, Midterm II : 30%, Final Exam : 40%

Remarks

- The exams will consist of multiple-choice questions. Exam grades will be calculated by subtracting one quarter of the number of wrong answers from the number of correct answers. If the resulting grade is negative, the grade will be considered as zero.
- Students, who do not attend at least one of the in-term exams, are not admitted to the final exam and get VF.
- Letter grades are assigned in accordance with the guidelines set by the Senate.
- All course announcements and materials will be posted on both <https://fizik.itu.edu.tr> and the 'ninoval' system. It is the responsibility of students to regularly check these websites for updates.