



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



PHYSICS 101E – 2022/2023 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	6 February 2023	Chapter 1	Units, Physical Quantities, and Vectors
2	13 February 2023	Chapter 2 and 3	Kinematics
3	20 February 2023	Chapter 4	Newton's Laws of Motion
4	27 February 2023	Chapter 5	Applying Newton's Laws
5	6 March 2023	Chapter 6	Work and Kinetic Energy
6	13 March 2023	Chapter 7	Potential Energy and Energy Conservation
7	20 March 2023	Chapter 8	Momentum, Impulse, and Collisions
	27 March 2023		Spring Break
8	3 April 2023	Chapter 8	Momentum, Impulse, and Collisions
9	10 April 2023	Chapter 9	Kinematics of Rotational Motion
10	17 April 2023	Chapter 10	Dynamics of Rotational Motion
11	24 April 2023	Chapter 10	Dynamics of Rotational Motion
12	1 May 2023	Chapter 12	Gravitation
13	8 May 2023	Chapter 13	Periodic Motion
14	15 May 2023	Chapter 13	Periodic Motion

Exams:

1st Midterm : TBA

2nd Midterm : TBA

Final Exam : 22 May – 4 June, 2023 (Exact date and time will be announced by the Student Administration Office. Includes all chapters).

Letter Grade Weights: Midterm 1 : 30% Midterm 2 : 30% Final : 40 %

Attendance requirement: Attendance to 70% of classes is obligatory.

Remarks

- The exams will be multiple choice. Exam grades will be calculated by subtracting one quarter of the number of wrong answers from the number of correct answers. If the exam grade is negative, the grade will be considered as zero.
- Students failing to score at least 25 % (i.e. 15 out of 60) on the in-term assessments (Midterm 1 and Midterm 2) will not be allowed to attend the final exam and will be graded VF (no visa for final).
- *Minimum passing grade:* A minimum of 40.00/100.00 is required for a passing letter grade.
- Check the Physics Eng. Dep. webpage regularly and before exams for announcements regarding the course.