

ISTANBUL TECHNICAL UNIVERSITY
Faculty of Arts and Sciences - Physics Engineering

FIZ 201E Modern Physics CRN 21057

2023-2024 Spring

E-mail: sunarm@itu.edu.tr,

Dr. M.Murat SUNAR

Textbook:

Concepts of Modern physics

A. Beiser

Reference Materials:

Modern Physics from a to Z

James William Rohlfs, James Rohlfs

Çağdaş Fiziğin Kavramları (Arthur Beiser)

Modern Physics (Kenneth Krane)

Fizik ve Mühendislikte Modern Fizik (John R. Taylor, Chris Zafaritos)

Course Outline

Week	Topic
1	Relativity
2	Relativity
3	Problem Solving Session
4	Particle properties of waves
5	Wave properties of particles
6	Problem Solving Session
7	Atomic Structure
8	Theory of Hydrogen Atom
9	Problem Solving Session
10	Quantum Mechanics
11	Quantum Mechanics
12	Midterm
13	Molecular Structure
14	Problem Solving Session

Grading:

Midterm : 40%

Final Exam : 40%

Homework : 20%

Attendance:

A minimum of 70% attendance to the lectures is required to be able to take the final exam.

Academic Integrity

Students who cheat during an exam will receive a grade of FF in the course.