

FIZ 313E Modern Physics

Semester: Spring 2020-2021

Instructor: Prof. Dr. H. Özgür Özer

Faculty of Science and Letters, Dept. of Physics Engineering, Office: B4-Z11

Ph: 212 2857222 e-mail: oozer@itu.edu.tr

Course schedule: Mon 08:30-10:30, Wed 08:30-10:30, Fri 08:30-09:30.

Course website: <https://ninova.itu.edu.tr/Ders/12386>

Text book and other references:

1. Concepts of Modern Physics, A. Beiser, 6th ed., McGraw-Hill (2003).
2. Modern Physics, Kenneth Krane.
3. Modern Physics, John Taylor, Chris Zafaritos, Prentice Hall (1991).

Course outline:

Subject
Special Theory of Relativity
Wave-particle duality
Atoms
Schrödinger equation
Hydrogen atom
Many electron systems
Introduction to Statistical Physics
Introduction to Solid State Physics

Grading:

Quizzes (7-10)	65%
Homeworks (3-6)	10%
Final Exam	25%

*** Student is required to collect **22.5** points out of **75** during the term to be allowed to take the final exam.