



## PHYSICS 102E–2023/2024 SUMMER

### TEXTBOOK:

- Young, Hugh D., and Freedman, Roger A. *University Physics with Modern Physics*. 14th ed. Pearson, 2016.

### SUPPLEMENTARY TEXT:

- Giancoli, Douglas C. *Physics for Scientists & Engineers*.
- Halliday, David, Resnick, Robert, and Walker, Jearl. *Fundamentals of Physics*.
- Serway, Raymond A., and Jewett, John W. *Physics for Scientists and Engineers*.

Week	Chapter	Topics
1	1–5 July Chapter 21 Chapter 22	Electric Charge and Electric Field (21.1–21.7) Gauss's Law (22.1–22.5)
2	8–12 July Chapter 23 Chapter 24	Electric Potential (23.1–23.5) Capacitance and Dielectrics (24.1–24.4)
3	15–19 July Chapter 25 Chapter 26	Current, Resistance and Electromotive Force (25.1–25.5) Direct-Current Circuits (26.1–26.5)
4	22–26 July Chapter 27 Chapter 28	Magnetic Field and Magnetic Forces (27.1–27.7) Sources of Magnetic Field–Biot Savart & Ampere's Laws (28.1–28.7)
5	29 July–2 August Chapter 29 Chapter 30	Electromagnetic Induction–Faraday's Law (29.1–29.5, 29.7) Inductance–Inductors (30.1–30.6)
6	5–9 August Chapter 32	Electromagnetic Waves (32.1–32.5)

### EXAMS:

Midterm Exam (50%) : 28 July 2024 Sunday, 14:00 –16:00. Exam Topics: Chapter 21–Chapter 26

Final Exam (50%): Exact date and time will be announced by the [Registrar's Office](#). Exam Topics: All chapters.

### IMPORTANT NOTES:

- Students, who do not attend the midterm exam, are not admitted to the final exam and get **VF**.
- 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.
- Letter grades are assigned in accordance with the guidelines set by the Senate.  
Guidelines: <https://www.sis.itu.edu.tr/TR/mevzuat/ders-basari-olcme-ve-degerlendirme-senato-esaslari.php#>
- All course announcements will be posted on <https://fizik.itu.edu.tr/en/home>. It is the responsibility of students to regularly check this web page for updates.