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

PHYSICS II (FIZ102E) – 2024/2025 FALL SEMESTER

TEXTBOOK

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

SUPPLEMENTARY TEXTBOOKS

- 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*.

SCHEDULE

Week	Date	Topics
1	30 Sep–4 Oct	Chapter 21: Electric Charge and Electric Field (21.1–21.7)
2	7–11 Oct	Chapter 22: Gauss's Law (22.1–22.5)
3	14–18 Oct	Chapter 22: Gauss's Law (22.1–22.5)
4	21–25 Oct	Chapter 23: Electric Potential (23.1–23.5)
5	28 Oct–1 Nov	Chapter 24: Capacitance and Dielectrics (24.1–24.4)
6	4–8 Nov	Chapter 25: Current, Resistance and Electromotive Force (25.1–25.5)
7	11–15 Nov	Chapter 26: Direct-Current Circuits (26.1–26.5)
	18–22 Nov	**Fall Break**
8	25–29 Nov	Chapter 27: Magnetic Field and Magnetic Forces (27.1–27.7)
9	2–6 Dec	Chapter 28: Sources of Magnetic Field – Biot Savart & Ampere's Laws (28.1–28.7)
10	9–13 Dec	Chapter 29: Electromagnetic Induction – Faraday's Law (29.1–29.5, 29.7)
11	16–20 Dec	Chapter 29: Electromagnetic Induction – Faraday's Law (29.1–29.5, 29.7)
12	23–27 Dec	Chapter 30: Inductance – Inductors (30.1–30.6)
13	30 Dec–3 Jan	Chapter 32: Electromagnetic Waves (32.1–32.5)
14	6–10 Jan	Chapter 32: Electromagnetic Waves (32.1–32.5)

This schedule may be subject to adjustments during the semester. It is the students' responsibility to stay informed about any changes by attending lectures and checking for updates.

EXAMS

- **Midterm I (30%):** 9 November 2024, Saturday, 13:00 – 15:00. Exam Topics: Chapter 21–Chapter 24.
- **Midterm II (30%):** 14 December 2024, Saturday, 13:00 – 15:00. Exam Topics: Chapter 21–Chapter 28.
- **Final Exam (40%):** The exact date and time will be announced by the Registrar's Office. Exam Topics: All chapters.

IMPORTANT NOTES

- Students are responsible for all announcements made during lectures, posted on the Physics Engineering Department website and Ninova.
- Exams will consist of multiple-choice questions. Exam grades will be calculated by subtracting one-quarter of the number of incorrect answers from the number of correct answers. If the resulting grade is negative, the grade will be recorded as zero.
- Students who do not attend at least one of the midterm exams will not be permitted to take the final exam and will receive a **VF** grade.
- Limits of letter grades are assigned in accordance with the guidelines set by the Senate. For more information, refer to the guidelines available at Senate Guidelines.
- Please review the 'Frequently Asked Questions' before contacting instructors.

FREQUENTLY ASKED QUESTIONS

1. **Whom should I contact if I have a question about the FIZ101E/FIZ102E laboratories?**

   You can contact lecturer Yeşim Öztürk (gultekiny@itu.edu.tr), who is in charge of the FIZ101E/FIZ102E laboratories.

2. **How do I find out the exam dates?**

   You can find the dates for the midterm exams in the relevant course syllabus. The final exam announcement will be made by the Registrar's Office.

3. **How do I find out the location of my exam?**

   Exam locations will be announced on the FIZ101E/FIZ102E webpage a few days before the exam.

4. **How can I check my exam score for the course I'm enrolled in?**

   Your course instructor will announce exam grades through the Kepler system. You can also access your optical answer sheet on the FIZ101E/FIZ102E webpage.

5. **I believe there is a mistake in my optical answer sheet or exam questions. Who should I contact?**

   After reviewing your optical answer sheet on the FIZ101E/FIZ102E webpage, you can report the result you think is incorrect to the email address fizik-havuz@itu.edu.tr with the subject line 'About the Optical Form'. Please attach a screenshot of the error to your email. If you think there is a mistake in the exam question, you can apply to the Department of Physics Engineering with a petition containing the question you object to and your solution to the problem you can also send an email to fizik-havuz@itu.edu.tr.

6. **What do I need to do to take the make-up exam?**

   Students who are unable to take FIZ101E/FIZ102E exams due to a valid reason must submit a petition to their faculty within the specified deadlines (see: Mazeretlerin Kabulü ve Mazeret Sınavlarının Yapılış Esasları), along with valid documentation supporting their request. Details regarding the location and time of make-up exams will be announced on the Physics Engineering Department's webpage (https://fizik.itu.edu.tr/en/home). To check the status of your petition and documents, please contact fizik-havuz@itu.edu.tr with the subject line 'About the Make-Up Exam Documents' during the week before the make-up exam.

7. **What is the passing grade in FIZ101E/FIZ102E courses? What will my letter grade be?**

   The evaluation of achievement in FIZ101E/FIZ102E courses is carried out in accordance with the Achievement Measurement and Evaluation Senate Principles No. 845 dated 28.09.2023. As per the decision of the Senate, the limits of letter grades cannot be determined until the end-term averages of the courses are finalized. Letter grades will be announced after the departmental evaluation of grade distributions is completed.