



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



FIZ 233E – 2023/2024 Fall

TEXTBOOK:

Microelectronic Circuits, A.S. Sedra, K.C. Smith, 5th ed., Oxford Uni. Press, (2004).

Electronic Devices and Circuit Theory, R.L. Boylestad, L. Nashelsky, 10th ed., Pearson Int. Ed., (2009).

Integrated Electronics Analog Digital Circuits, Jacob Millman and D. Halkias, McGraw Hill

Week	Date	Topics
1	03-04 Oct 2023	Introduction to Electronic Circuit Elements
2	10 Oct 2023	Energy Levels and Energy Bands
3	17 Oct 2023	Semiconductors and Conduction in Semiconductors
4	24 Oct 2023	Semiconductor–diode
5	31 Oct 2023	Applications of Semiconductor-diodes
6	07 Nov 2023	Applications of Semiconductor-diodes and Special Types of Diodes
7	14 Nov 2023	Applications of Semiconductor-diodes and Special Types of Diodes
8	21 Nov 2023	Transistor (BJT)
9	28 Nov 2023	Transistor (BJT) Biasing
10	05 Dec 2023	Applications of Transistors (BJT)
11	12 Dec 2023	Field Effect Transistors (FET)
12	19 Dec 2023	Field Effect Transistor (FET) Biasing
13	26 Dec 2023	Applications of Field Effect Transistors (FET)
14	02 Jan 2024	Operational Amplifiers

Exams

Midterm : 15 Nov 2023, 16:30-18:00.

Final Exam : (08 – 21 Jan 2024) Exact date and time will be announced by the Student Administration Office.

Quizzes

10 quizzes (Quiz1: 11.10.2023, Quiz2: 18.10.2023, Quiz3: 25.10.2023, Quiz4: 01.11.2023, Quiz5: 08.11.2023, Quiz6: 22.11.2023, Quiz7: 29.11.2023, Quiz8: 06.11.2023, Quiz9: 13.11.2023, Quiz10: 20.11.2023)

Assessment of the Grades

Midterm : 30 %

Quizzes : 30 % (10 Quizzes x 3 %)

Final exam : 40 %

Attention

Students failing to score at least 25 % (i.e. 15 out of 60) on the in-term assessments (midterm and quizzes) will not be allowed to attend the final exam and will be graded **VF**.

Please keep track of the web page of Ninova, not to miss any announcements.