

Istanbul Technical University
Faculty of Science and Letter – Physics Engineering Department

[\(http://www.fizik.itu.edu.tr/turhan/digital/\)](http://www.fizik.itu.edu.tr/turhan/digital/)

FIZ 424E: Digital Electronics I (CRN 10762)
2017-2018 Fall

Dr. İbrahim Türhan
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Wednesday : 13:30 – 15:30

Wednesday : 15:30 – 17:30 (Microprocessor Laboratory)

Office Hours: Wednesday 15:30 – 17:00

Textbook:

1. Digital Electronics, a practical approach

Reference Materials:

1. Principles of Modern Digital Design, Parag K.Lala, A John Wiley & Sons Inc. Publication (2007)
2. Fundamentals of Digital Electronics, Professor Barry Paton Dalhousie University (1998)
3. Digital Design 2nd Edition

Course Outline

1. Numeric systems,
2. Logic Gates,
3. Boolean Algebra,
4. Arithmetic Calculations,
5. Code Converter
6. Flip Flop's
7. Mod Counters

Quiz: Bi weekly

Homework: Bi weekly (Homework's are for exercises purpose.)

Laboratory: 10 Experiments (Experiments may consist of more than one part)

Exam Dates:

Midterm:

1. Midterm : 10/18/2017
2. Midterm : 12/26/2017

Final Exam:

Will be announced by the Student Administration Office

Grading:

1. 1. Midterm : 20%
2. 2. Midterm : 20%
3. Final Exam : 30%
4. Laboratory : 20%
5. Quiz : 10%
6. Homework : 0%

Academic Integrity

Students who cheat during an exam or on laboratory session will receive a grade of F in the course.