Instructor: Yunus Sarıkaya
Office Hours: by appointment

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Teaching Assistant: Seyedmohammad Nouraniboosjin
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Office Hours: In recitations or appointment by e-mail

Lectures: Lectures will be in-class
Thursday: 8.40-11.30 (FENS L027)
Friday: 8:40-11.30 (FENS L027)

Recitations: Recitations will be in class
Friday: 16:40-19:30 (FENS L056)

Course Description: Major objectives of this course are 1) to provide a broad introduction to signals and systems which is one of the best starting points for the study of electrical engineering, computer science, and mechatronics, and 2) to introduce the use of mathematics as an appropriate language for thinking about engineering problems broadly and for describing and understanding signals and systems in particular.


Grading Policy

Midterm: 35% - TBA (probably at the end of 4th week during lecture hours)
Final: 45% - TBA (during final exams week)
Recitation Quizes: 10% - (We will take best 5 out of 6 quizzes)
Inclass Quizes: 10% - (We will take best 5 out of 6 or 7 quizzes)

Exam Policy
There will be a midterm and a final. All the exams will be closed-book, but you will be allowed to bring one page (double-sided) of notes for each exam. Notes must be in your own handwriting.

Recitations
Attendance and participation in recitations are necessary for you to do well in the course, and are certainly critical to your mastering the material.

Topics and (Rough) Weekly Schedule:

• Course Overview, Introduction (Chapter 1), Sinusoids, Complex Numbers (Chapter 2) [W1]
- Complex Exponentials, Phasors (Chapter 2), Spectrum Representation (Chapter 3) [W1-W2]
- Fourier Series (Chapter 3) [W2]
- FIR Filters, LTI Systems, Convolution (Chapter 5) [W3]
- Frequency Response of FIR Filters (Chapter 6) [W4]
  MIDTERM 1 [W4]
- Continuous-time Signals and Systems, Impulse Response, Convolution (Chapter 9) [W4-W5]
- Frequency Response of Continuous-time LTI Systems (Chapter 10) [W5]
- Continuous-time Fourier Transform (Chapter 11) [W6]
- Filtering, Modulation, and Sampling (Chapter 12) [W7]

FINAL EXAM