SIGNAL PROCESSING APPLICATIONS
COURSE OUTLINE

Course Description: This is an elective course on Digital Signal Processing which aims to study computer implementation of some signal processing methods. The course is allowed only for students who passed the DSP course. Topics include Discrete-Time Signals, Discrete Systems, Frequency Analysis, System Analysis and Implementation, and Digital Filters.

Textbook: No textbook will be necessary for this course. All necessary material will be handed out.

Instructor: Prof. Dr. Aydin AKAN (akan@istanbul.edu.tr)

TAs: Yeşim HEKİM TANÇ (yhekim@istanbul.edu.tr)
     Serkan TÜZÜN (stuzun@istanbul.edu.tr)

Class Hours: Monday 09.25-12.05
Office Hours: Monday 13.00-14.00

Syllabus:
• Experiment 1: Discrete-Time Signals
• Experiment 2: Discrete-Time Systems
• Experiment 3: Frequency Analysis
• Experiment 4: System Analysis and Implementation
• Experiment 5: Digital Filters
• Experiment 6: Real-Time Filtering Application

Grades: There will be pre-lab excersies, quizzes and lab reports as your midterm grade, and a written final exam.