EE345S Real-Time Digital Signal Processing Lab  
(Spring 2006)

Lecture: TTH 5:00-6:30 PM in ENS 115  
Instructor: Prof. Güner Arslan, ENS 620B, 471-9914, arslan@ece.utexas.edu  
Office Hours: W 5:00-7:00 PM  
TA Office Hours: Alex Olson, TBD, aolson@ece.utexas.edu,  
Ahmad Sheikh, TBD, asheikh@ece.utexas.edu,  
Daifeng Wang, TBD, dfwang@mail.utexas.edu  
Lab Sections (ENS 252B): T 7:00 PM-10:00 PM (Olson), W 9:00 AM-12:00 PM (Olson),  
W 12:00 PM-3:00 PM (Sheikh), W 7:00 PM-10:00 PM (Wang),  
TH 7:00 PM-10:00 PM (Sheikh)  
Course Web Page: http://signal.ece.utexas.edu/~arslan/courses/realtime

This course covers basic discrete-time signal processing concepts and gives hands-on experience in translating these concepts into real-time digital communications software.

Prerequisites  

Topical Outline  
digital signal processing - signals, sampling, filters, quantization, data converters;  
digital communications - modulation, pulse shaping, pseudo noise, wireline transceivers;  
digital signal processors - special addressing modes, parallel instructions, pipelining

Required Texts  


Supplemental Texts  


Grading  
10% Homework, 15% Quiz #1, 15% Quiz #2, 60% Laboratory. Attendance in scheduled laboratory sessions is mandatory. Attendance in lecture is highly encouraged.

Discussion of homework questions is encouraged. Please be sure to submit your own independent homework solution. Late homework assignments will not be accepted.

College of Engineering Drop/Add Policy  
The Dean must approve adding or dropping courses after the fourth class day of the semester.

Students with Disabilities  
The University of Texas at Austin provides upon request appropriate academic accommodations for qualified students with disabilities. For more information, contact the Office of the Dean of Students at 471-6259, 471-4641 TTY or the College of Engineering Director of Students with Disabilities at 471-4382.