First Class August 26, 2009

Instructor:

Hector Erives; Phone: 505-835-5932; Email: erives@ee.nmt.edu.

Text (Required):

Digital Signal Processing; A Computer-Based Approach by Sunjit K. Mitra.

Software:

MATLAB.

Class Schedule

Mon, Wed, Fri 10:00 - 10:50 A.M., WORKC 109.

Office Hours

Mon - Fri 9:00 - 10:00 A.M. WORKC 209.

Course Overview:

Most signals we encounter are generated by natural means. A signal carries information and the objective of signal processing is to extract useful information from it. This course will cover the principles of DSP to achieve this task, which includes the implementation of infinite and finite impulse response filters, discrete and fast Fourier transforms, spectral estimation, quantization effects. Labs will include design and implementation of infinite and finite impulse response filters, sound processing, and other applications in state-of-the-art hardware.

Item	Description	Worth points
	Homework will be assigned	
Homework	regularly and will be done on	15
	individual basis	
	You are required to participate	
Class participation	actively in class. Any student	5
	may be called upon to discuss	
	any assignment	
	Three tests, and each will	
Partial tests	contain material covered since	3x20=60
	previous test	
Final test	The final test will cover all the	20
	material	

Tentative Class Structure

Laboratory Schedule:

Wed 2:00 – 5:00 P.M. WORKC 117.