



DIGITAL SIGNAL PROCESSING LABORATORY

Laboratory In- charge: Mrs.D.Dharini AP/ECE

Technical supporting staff: Mr.M. Hariharan



Snapshot of Digital Signal Processing Laboratory

Area of the laboratory: 104.96 Sq.m



Major Equipment:

- Personal Computer - INTEL PENTIUM DUAL CORE
- DSP Starter Kits- TMS320VC5416
- MATLAB R2015a
- Cathode Ray Oscilloscope TXTR Interface using PT100 with ADC

List of Experiments:

- Generation of sequences (functional & random) & correlation using MATLAB
- Linear and Circular Convolutions using MATLAB
- Spectrum Analysis using DFT using MATLAB
- FIR Filter design, IIR filter and Multirate filters and equalization using MATLAB
- Study of architecture of DSP processor
- MAC operations using various addressing modes using DSP processor
- Linear, circular Convolution and FFT implementation using DSP processor
- Waveform generation, IIR and FIR implementation
- Study of Finite Word Length Effect

Beyond the syllabus experiments:

- Design of musical instrument tuning using filters
- Design of Composite Video Signal Processing using DM6437

Utilization of the laboratory:

- Digital Signal Processing Laboratory for III year ECE/V sem