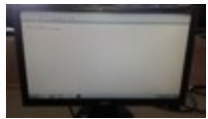




Year/Sem : III/II
Lab code/ Name : A60493/ Digital Signal Processing
Lab in charge(Teacher/ Lab Staff) : L. Bhavani Annapurna

Experiment List:

1. Generation of Sinusoidal waveform/signal based on recursive difference equations.
2. To find DFT/IDFT of given DT signal.
3. To find frequency response of a given system given in (Transfer Function/ Difference equation form).
4. Implementation of FFT of a given sequence.
5. Determination of Power Spectrum of a given signal(s).
6. Implementation of LP FIR filter for a given sequence.
7. Implementation of HP FIR filter for a given sequence.
8. Implementation of LP IIR filter for a given sequence.
9. Implementation of HP IIR filter for a given sequence.
10. Generation of Sinusoidal signal through filtering.
11. Generation of DTMF signals
12. Implementation of Decimation process.
13. Implementation of Interpolation process.
14. Implementation of I/D sampling rate converters.
15. Audio application such as to plot a time and frequency display of microphone plus a cosine using DSP. Read a .wav file and match their respective spectrograms.
16. Noise removal: Add noise above 3 KHz and then remove, interference suppression using 400 Hz tone.
17. Impulse response of first order and second order systems.

S.No :	Equipment	Quantity	Specifications	Photos
1	Computers	55	Dual core, 2GB RAM, 500GB hard disk, 18.5 LED ACER	
2	VSK 6713 DSP trainer kits with built in function generator	15	32 bit floating point processor(TMS3206713) Make: Vi Micro systems, Chennai.	

3	CRO's	10	EZ/LG	
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