

DSP Practical List

1. To plot the waveforms for: Sine, Cos, Exponential, Ramp, Unit Impulse, unit Step signal functions in continuous time using MATLAB.
2. To plot the waveforms for: Sine, Cos, Exponential, Ramp, Unit Impulse, unit Step signal functions in discrete time using MATLAB.
3. To perform sampling. Consider an analog signal $x(t) = 3 \cos 2000(\pi)t + 5 \sin 6000(\pi)t + 10 \cos 12000(\pi)t$. What is Nyquist rate for this signal? What is discrete time signal obtained after sampling at 5000 samples/s?
4. To perform operations of folding and the delaying (or advancing) on signal.
Refer pg. 52 and 53
5. To perform Convolution
6. To perform Cross Correlation and Auto Correlation
7. To compute DFT
8. To perform Circular Convolution
9. To compute z transform
10. To perform linear convolution using DFT
11. Design ButterWorth low pass Filter