Bangladesh Army University of Engineering & Technology
Department of Computer Science and Engineering
4th Year 1st Semester (6th batch)
Course Title: Digital Signal Processing Sessional
Course Code: CSE 4108

Experiment List

Exp:01	Write a program in MATLAB to generate the following waveforms:
	<table><tr><td>**Discrete Time signal**</td><td>**Continuous Time signal**</td></tr><tr><td>1. Unit Impulse sequence</td><td>1. Pulse signal</td></tr><tr><td>2. Unit step sequence</td><td>2. Unit step signal</td></tr><tr><td>3. Unit Ramp sequence</td><td>3. Ramp signal</td></tr><tr><td>4. Sinusoidal sequence</td><td>4. Sinusoidal signal</td></tr></table>
Exp:02	Write a program in MATLAB to study the basic operations on the Discrete time signals. (Take Inputs from keyboards) 1. Amplitude manipulation(Amplitude scaling, Offset the signal, addition and multiplication) 2. Time manipulation(Time scaling, Time shifting, Time reflection)
Exp:03	Write a MATLAB Script to perform discrete convolution (Linear and Circular) for the given two sequences and also prove by manual calculation. (Take Inputs from keyboards) 1. Linear Convolution 2. Circular Convolution
Exp:04	Write a MATLAB program to perform the Fast Fourier Transform for the given sequences.
Exp:05	Write a MATLAB Script to design a low pass FIR filter using Window Method for the given specifications.