**DSP Lab list**

**Course: CSE 447 (Digital Signal Processing Lab)**

**Dept. of computer Science and Engineering**

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| Experiment 1 | Representation of Basic signals  i) Sine wave  ii) Cosine wave  iii) Unit impulse  iv) Unit step wave  v) Square wave  vi) Exponential waveform |
| Experiment 2 | To find DFT / IDFT of given DT signal |
| Experiment 3 | Linear convolution of two sequences |
| Experiment 4 | Auto correlation |
| Experiment 5 | To find the FFT of a given sequence |
| Experiment 6 | Implementation of interpolation process |
| Experiment 7 | Computation of n-point DFT of a given sequences |
| Experiment 8 | Verification of sampling theorem |
| Experiment 9 | To Design a Butterworth digital IIR filter |
| Experiment 10 | Design of FIR filter: low pass filter, highpass filter, bandstop filter, bandpass filter |