

**AIM**

To introduce the student to various digital Signal Processing techniques using TMS 320c5x family processors and MATLAB.

**OBJECTIVES:**

To implement the processing techniques using the instructions of TMS320c5x.  
To implement the IIR and FIR filter using MATLAB.

**LIST OF EXPERIMENTS****USING TMS320C5X**

Study of various addressing modes of DSP using simple programming examples  
Sampling of input signal and display  
Implementation of FIR filter  
Calculation of FFT

**USING MATLAB**

Generation of Signals  
Linear and circular convolution of two sequences  
Sampling and effect of aliasing  
Design of FIR filters  
Design of IIR filters  
Calculation of FFT of a signal