



**AVIT**  
AARUPADAI VEEDU INSTITUTE OF TECHNOLOGY



VINAYAKA MISSION'S  
RESEARCH FOUNDATION  
(Deemed to be University under section 3 of the UGC Act 1956)



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## DEPARTMENT OF BIOMEDICAL ENGINEERING

### BIOMEDICAL SIGNAL AND IMAGE PROCESSING LAB

#### List of Experiments

1. Representation of basic discrete time signals.
2. Computation of convolution –linear convolution.
3. Response of a difference equation to initial conditions; stability.
4. DFT and FFT computation.
5. FIR filter design using windowing techniques
6. IIR filters design-digital Butterworth filter and Chebyshev filter.
7. Simulation of Bio-signals.
8. Analysis of ECG, EEG & EMG signals.

#### TEXT BOOKS:

Department Lab Manual

HOD-BME- ECE