SIGNAL PROCESSING LABORATORY

Lab Description:

The Signal Processing Lab provides support to applied research (UG projects) aimed at the design and development of solutions related to signal processing applications such as filter design, multirate signal processing, speech recognition, image processing operations in the field of medical and communication, audio and video processing.   This lab is also used to train the students to develop machine learning algorithms for signal processing applications.

Lab Facilities

Signal processing lab is well equipped with the state of the art facilities which includes

- TMS320C6748 DSP kit
- TMS 320C6713 DSP floating point starter kit
- TMS 320C6416 DSP starter kit
- OMAP L_1386748 LCDK (Audio and Video Development DSP board)
- ADS1298RECG_FE ECG front end performance demonstration kit
- MATLAB Campus Wide Suite (CWS), Personal Computers with 8GB RAM.

Utilization:

A. **Academic:** This lab is utilized for conducting the following course(s)
   10211EC303-Signal Processing Lab
   10211EC202-IoT Lab
   10211EC301-Analog Integrated Circuits Lab
   10211EC302-Digital Electronics Lab
   1152EC235-Digital Image Processing
   10212EC228-Data Science and Visualization
B. **Research:** This lab is utilized by the Faculty members and research scholars for their research in speech processing, image processing, and biomedical signal processing applications.