



### **DIGITAL SIGNAL PROCESSING LABORATORY:**

In the Digital Signal Processing Lab students are given the practical exposure of all the theoretical concepts they learn in the classroom. Beginning with the generation of standard signals, the students move on to perform convolution and Discrete Fourier Transform (DFT). With this basic understanding they have the ability to further explore the advanced experiments. Different types of filters are also designed and implemented by the students. The students can implement digital signal processing algorithms using different computational platforms and DSP tools. There is also a provision for the student to perform real time implementation of DSP algorithms using Texas Instruments processors like TMS320C6713. They can critically analyse the behaviour of their implementation and observe the specific limitations inherent to the computational platform and tools. The laboratory combines both hardware and software facilities.

#### **Hardware Facilities:**

- TI – DSP KIT TMS320C6713

#### **PCs Software Tools:**

- MATLAB
- Code Composer Studio V6

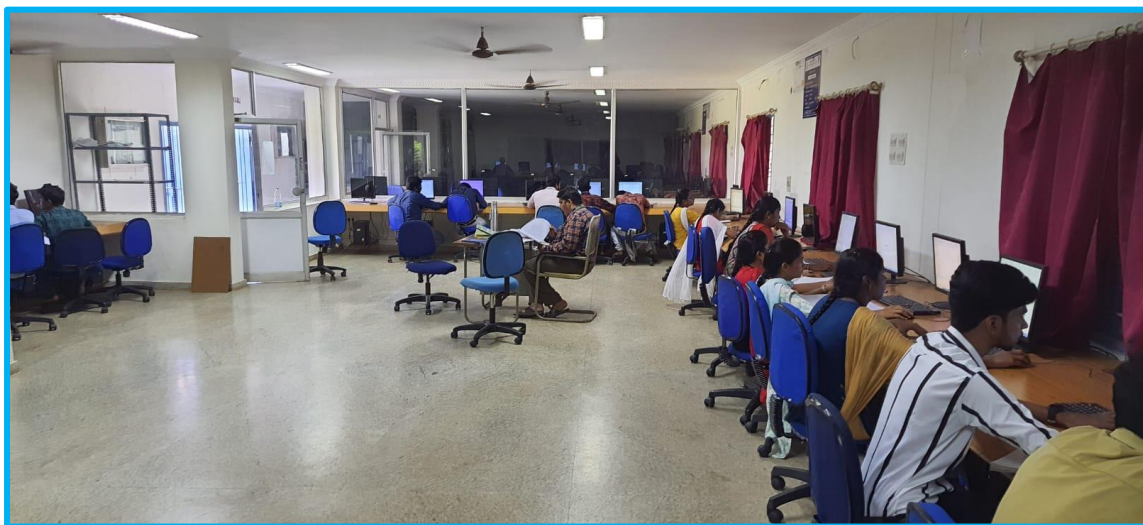


Figure: DSP LAB