

Department of Electronics and Communication Engineering

Signal Processing Lab

Signal Processing Lab is one of the most important lab for engineering students. In this lab Students learn quality engineering principles to inexperienced graduate students in an accurately simulated industrial development environment. It resulted in the development of a framework for describing and evaluating such a real-world project, including evaluation of the notion of a user advocate. **Matlab** programming is currently a widely established course for engineering students. This revision takes not only into account for the connecting of contents but also fusion with corresponding frontier information field. Students enjoy the experiment, a preliminary understanding of the application situation of MATLAB programming language, and the educational quality can be improved. MATLAB stands as a de facto development language and environment serving the technical needs of a wide range of users. **MATLAB** is a high-performance language for technical computing. It integrates computation, visualization, and programming in an easy-to-use environment where problems and solutions are expressed in familiar mathematical notation. Typical uses include: Application development, including Graphical User Interface building.

HARDWARE AVAILABLE-

PC Configuration:

Personal Computer (8GB RAM,1TB HDD) – 30 Nos.

Measuring Equipments:

Cathode Ray Oscilloscope-13,Digital Storage Oscilloscope -4,Function Generator -10, Bread Board 11,Distortion Meter-02,DC Regulated Power Supply-10,Digital Multimeter -13

Softwares:

Matlab 7.0 Software(30 users),
National Instruments Lab View (50 users),Simulink 6.0(30 users)-01,Communication tool box 3.0 (5 users)-02, Signal processing toolbox 6.2(5 users),
CDMA reference blockset 1.1(5 users),Wavelet toolbox 3.0 (5 users)

Various Experimental Kits :

DSP development System Based on TMS320C52 – 05
DSP STARTER KIT (DSK) Based on TMS320C6711-02
DSP STARTER KIT (DSK) Based on TMS320VC5416-02