Signals and Systems Lab

Block No.4, Room No. 423, ECE Dept., MAIT

This LAB aims to reconcile the declarative (what is) and imperative (how to) points of view on signals and systems. The mathematical treatment that dominates in the associated text is declarative in that it asserts the properties of signals and studies the relationships between signals that are implied by systems. This laboratory manual focuses on an imperative style, where signals and systems are constructed procedure. Throughout this lab we will be using MATLAB/SCILAB to simulate signals and systems. MATLAB/SCILAB is a potent vector/matrix-oriented platform. The lab is divided into two distinct sections, in-lab and independent. The purpose of the in-lab section is to introduce concepts needed for later parts of the lab. Each in-lab section is designed to be completed during a scheduled lab time with an instructor present to clear up any confusing or unclear concepts. The independent section begins where the in-lab section leaves off. It can be completed within a scheduled lab period or may be completed independently. Students should write a summary of their solutions to the lab exercise.

Equipment/Tools Available: Computer systems, LAN system, MATLAB/SCILAB software, Projector, Printers etc.