COMMUNICATION SYSTEMS LAB

Block No.4, Room No. 442, ECE Dept., MAIT

The general objective of this lab is to make the student understand the basic building blocks of an analog communication system and various analog modulation techniques. The student can further use these conceptual skills in the course of his/her own experimental projects in various fields and advance subjects pertaining to the field of communication. The Communication Systems lab is specifically designed to allow the students to get acquainted with different hardware kits emphasizing on various analog modulation techniques. Also, it enables them to analyze the transmission and reception of analog systems with the help of Analog and Digital CRO. Therefore, the students get to understand the basic principles and applications of analog communication circuits in detail. At the end of the course, the students are able to acquire competence associated with the knowledge of different Communication Blocks and basic principles and applications of Analog Communication Systems.

Major Equipment used in the lab

In the lab, the hardware kits are acquired from reputed kit manufacturers such as Scientech, Excel Technologies, etc. Training kits are used to perform analog modulation techniques such as DSB/SSB, AM, FM, PAM, PWM, PPM etc. along with additional hardware equipment such as DSOs, CROs, connecting chords, mic, etc. Apart from this, the lab also has some desktop computers where students can simulate analog communication experiments using Scilab software.