COMMUNICATION LABORATORY

Communication engineering lab is one of the laboratories in the department imparting fundamental knowledge related to analog and digital modulation concepts using software simulation tools and hardware implementations. The communications laboratory helps the students to understand the basic principles of communication systems by practical module systems. This laboratory includes experiments both in analog communication and digital communication.

The experiments are designed in such a way that the theoretical concepts introduced in lectures are re-discussed and implemented practically. The experiments deals with analog communication basics such as amplitude modulation, frequency modulation, time division multiplexing, phase locked loop, pulse analog modulation, pulse code modulation, and signaling techniques: PSK, FSK, DPSK, QPSK, and MSK.

Hardware Facilities:

- Digital Storage Oscilloscope

- Function Generator

- DC - Regulated Power Supply

- Digital Multimeter

- Cathode-ray Oscilloscope (30 MHz)

- Analog Modulator and Demodulator Trainer Kits

- Digital Modulator and Demodulator Trainer Kits

- Frequency Mixer Kit

- TDM PCM Transmitter Receiver Trainer Kits

- Frequency Multiplexer and De-Multiplexer Trainer Kits

- Delta Modulation Demodulation Trainer Kits

- Sampling and Reconstruction Trainer Kits

- Basic Antenna Measurement System