



COMMUNICATION SYSTEMS LABORATORY

Laboratory In-charge : Mrs. J. Roselin Suganthi AP/ECE

Technical supporting staff: Mrs. M. Brindha



Snapshot of Communication Systems Laboratory

Area of the laboratory: 87.71 Sq.m



Major equipment:

- Antenna Trainer system
- Amplitude Modulation Transmitter and Demodulation Receiver Kit
- Frequency Modulation Transmitter and Demodulation Receiver Kit
- PAM ,TDM Modulation, Demodulation and Demultiplexing Kit
- PAM/PWM/PPM Modulator/Demodulator Kit Pulse Code Modulation & Demodulation Kit
- Data Conditioning and Reconditioning & Carrier Modulation and Demodulation Kit
- Delta/Sigma Delta & Adaptive Delta Modulation ,Demodulation Kit
- QPSK/DQPSK Modulation & Demodulation Kit
- Digital Storage Oscilloscope and Decade Inductance Box
- VCO Using IC 565, Phase Detector Using IC565
- FM Transmitter Receiver Kit and Frequency Division Mux/Demux Kit
- PCM Mod/Demod Kit

List of Experiments:

- Signal Sampling and reconstruction
- Time Division Multiplexing
- AM & FM Modulator and Demodulator
- Pulse Code Modulation and Demodulation
- Delta Modulation and Demodulation
- Observation (simulation) of signal constellations of BPSK, QPSK and QAM
- Line coding schemes
- Simulation of FSK, PSK and DPSK schemes
- Simulation of Linear Block Codes, communication link and Zero forcing & LMS algorithm

Beyond the syllabus experiments:

- Frequency division, Multiplexer and Demultiplexer
- PAM, PPM, PWM

Utilization of the laboratory:

- Communication Systems Laboratory for ECE III year/V sem