



JAWAHARLAL NEHRU TECHNOLOGICAL UNIVERSITY KAKINADA
KAKINADA – 533 003, Andhra Pradesh, India
DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING

II Year-II Semester		L	T	P	C
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ANALOG COMMUNICATIONS LAB					

List of Experiments:

(Twelve experiments to be done- **The students have to calculate the relevant parameters**) –

(a. Hardware, b. MATLAB Simulink, c. MATLAB Communication tool box)

- A. Amplitude Modulation - Modulation & Demodulation
- B. AM – DSBSC - Modulation & Demodulation
- C. Spectrum Analysis of Modulated signal using Spectrum Analyzer
- D. Diode Detector
- E. Pre-emphasis & De-emphasis
- F. Frequency Modulation–Modulation & Demodulation
- G. AGC Circuits
- H. Verification of Sampling Theorem
- I. Pulse Amplitude Modulation & Demodulation
- J. PWM, PPM–Modulation & Demodulation
- K. PLLIC-565 as FM demodulator
- L. Radio receiver characteristics
- M. Radio Receiver/TV Receiver Demokits or Trainees.

Note: All the above experiments are to be executed/completed using hardware boards and also to be simulated on Mat lab.

Equipment & Software required: Software:

- i) Computer Systems with latest specifications
- ii) Connected in LAN (Optional)
- iii) Operating system (Windows/Linux software)
- iv) Simulations software (Simulink & MATLAB)

Equipment:

1. RPS - 0 –30V
2. CRO - 0– 20M Hz.
3. Function Generators - 0 – 1 MHz
4. Components and Bread boards
5. Multimeters and other meters
6. Spectrum Analyzer