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
		0	0	3	1.5

ANALOG COMMUNICATIONS LAB

List of Experiments:

(Twelve experiments to be done- **The students have to calculate the relevant parameters**)–
(a. Hardware, b.MATLABSimulink,c. MATLAB Communication toolbox)

A. Amplitude Modulation - Modulation &Demodulation
B. AM - DSB SC - Modulation &Demodulation
C. Spectrum Analysis of Modulated signal usingSpectrumAnalyzer
D. DiodeDetector
E. Pre-emphasis&De-emphasis
F. Frequency Modulation - Modulation&Demodulation
G. AGCCircuits
H. Verification ofSamplingTheorem
I. Pulse Amplitude Modulation&Demodulation
J. PWM, PPM –Modulation&Demodulation
K. PLL IC-565 as FM demodulator
L. Radioreceivercharacteristics
M. Radio Receiver/TV Receiver Demo kits orTrainees.

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

Equipment& Softwarerequired:

Software :

i) Computer Systems withlatestspecifications
ii) Connected inLAN(Optional)
iii) Operating system(Windows/Linuxsoftware)
iv) Simulations software (Simulink&MATLAB)

Equipment:

1. RPS - 0 – 30V
2. CRO - 0 – 20 M Hz.
3. FunctionGenerators - 0 – 1 MHz
4. Components andBreadboards
5. Multimeters and othermeters
6. SpectrumAnalyzer