LIST OF EXPERIMENTS

Communication systems lab

(ECE/CSE 5th semester)

**Paper Code: ETEC–357**

1. Introduction to Matlab. Study of functions from communication toolbox and general mathematical expressions.
2. Plotting power spectral density and autocorrelation function for Gaussian Distribution.
3. To study sampling theorem. Analyze the effect of under-sampling and over-sampling.
4. To study process of commanding using mu law.
5. To calculate S/N ratio and Probability of error of Delta Modulation. Show the effect of slope overload also.
6. To implement Quadrature Phase Shift Keying (QPSK) modulation and demodulation for different noise levels.
7. To calculate S/N ratio and Probability of error of Amplitude Shift Keying (ASK).
8. To calculate S/N ratio and Probability of error of Phase Shift Keying (PSK).
9. To calculate S/N ratio and Probability of error of frequency Shift Keying (FSK).
10. Analyze the eye-pattern .
11. Calculate output SNR of receiver for DM coded PSK modulated data.
12. To Study of Pulse Code Modulation and Probability of error.