

**SEMESTER V**  
**EC1508 COMMUNICATION SYSTEMS LABORATORY**

**LIST OF EXPERIMENTS**

1. Signal Sampling and reconstruction
2. Time Division Multiplexing
3. AM Modulator and Demodulator
4. FM Modulator and Demodulator
5. Pulse Code Modulation and Demodulation
6. Delta Modulation and Demodulation
7. Line coding schemes
8. Simulation of ASK, FSK, and BPSK generation schemes
9. Simulation of DPSK, QPSK and QAM generation schemes
10. Simulation of signal constellations of BPSK, QPSK and QAM
11. Simulation of ASK, FSK and BPSK detection schemes
12. Simulation of Linear Block and Cyclic error control coding schemes
13. Simulation of Convolutional coding scheme
14. Simulation of error performance of ASK, FSK, BPSK, QPSK, DPSK and QAM  
Communication link simulation

**LIST OF EQUIPMENT**

Sl. No.	Description of Equipment
1.	PCs with Fixed / Floating point DSPProcessors (Kit / Add-on Cards)
2.	MATLAB with Simulink and Signal ProcessingTool Box or Equivalent Software in desktop systems
3.	Signal Generators
4.	Digital Storage Oscilloscope (50MHz)