

## **Name of the laboratory: Analog Communications**

### **Course Outcomes:**

- After Completion of the course the student is able to Examine various types of Modulation Techniques
- Design and Verify Sampling theorem

### **List of the equipment:**

1. Regulated Power supplies (RPS) : 0-30 V
2. CRO's: 0-20 MHz.
3. Function Generators: 0-1 MHz.
4. Multimeters
5. Decade Resistance Boxes/Rheostats
6. Decade Capacitance Boxes
7. Ammeters (Analog or Digital): 0-20  $\mu$ A, 0-50 $\mu$ A, 0-100 $\mu$ A, 0-200 $\mu$ A, 10 mA.
8. Voltmeters (Analog or Digital): 0-50V, 0-100V, 0-250V
9. Trainer Boards

### **List of experiments:**

#### **HARD WARE EXPERIMENTS**

S.NO	NAME OF THE EXPERIMENT
1	Amplitude Modulation and Demodulation
2	Balanced Modulator (DSB-SC)
3	SSB modulation and Demodulation
4	FM modulation and Demodulation
5	Pulse Amplitude Modulation and Demodulation (PAM)
6	Pulse Width Modulation and Demodulation (PWM)
7	Pulse Position Modulation and Demodulation (PPM)
8	Pre emphasis and De emphasis
9	Spectrum Analyzer

#### **SOFT WARE PROGRAMS USING MATLAB/SCILAB**

S.NO	NAME OF THE EXPERIMENT
1	Amplitude modulation and demodulation
2	Balanced modulator (DSB)
3	SSB modulation and demodulation
4	FM modulation and demodulation
5	Pulse Width Modulation and demodulation(PWM)
6	Pulse Position Modulation and demodulation(PPM)
7	Time Division Multiplexing(TDM)
8	Verification of Sampling Theorem(VST)

