

**COURSE TITLE : DIGITAL COMMUNICATION LAB**  
**COURSE CODE : 5209**  
**COURSE CATEGORY : A**  
**PERIODS/WEEK : 4**  
**PERIODS/SEMESTER : 52/5**  
**CREDITS : 2**

### **LIST OF EXPERIMENTS**

At the end of the course the student will be able:

1. To setup a Pulse Position Modulator using 555.
2. To setup PPM Demodulator.
3. To setup a Pulse Amplitude Modulator.
4. To setup a PAM Demodulator.
5. To setup a Pulse Width Modulator using 555.
6. To construct and note the response of a PCM circuit.
7. To construct and note the response of a Sampling and reconstructed sine wave.
8. To setup ASK modulator and study its response.
9. To setup ASK Demodulator and study its working.
10. To setup FSK Modulator.
11. o setup FSK Demodulator.
12. To setup Binary PSK Modulator
13. To setup Binary PSK Demodulator.
14. To design pre-emphasis and de-emphasis circuit using op-amp for a given time constant and plot of Gain Vs Frequency.
15. To study transistor mixer by demonstrating mixing action of RF and oscillator frequency to produce IF, to obtain conversion trans-conductance of the mixer.
16. To Study TDM and recovery of Two Band Limited Signals.