

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. To 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.