EC-352

ANALOG COMMUNICATION LAB

L T P C - - 3 2

COURSE OBJECTIVES:

- 1. To understand analyze various analog modulation and demodulation methods.
- 2. To understand analyze various pulse modulation techniques.

COURSE OUTCOMES:

After successful completion of the course, the students are able to

- 1. visualise and practically implement communication circuits such as AM, DSB-SC, FM and PAM.
- 2. analyze the characteristics of communication circuits like Pre-emphasis & De-emphasis, Mixer, and Radio Receiver.
- 3. demonstrate frequency division multiplexing and demultiplexing technique.
- 4. Demonstrate and verify sampling theorem.

List of Experiments:

Experiments Based on ALP (8086):

- 1. Amplitude Modulation and Demodulation.
- 2. DSB SC Modulation and Demodulation.
- 3. SSB SC Modulation and Demodulation.
- 4. Frequency Modulation and Demodulation.
- 5. Pre Emphasis De Emphasis Circuits.
- 6. Verification of Sampling Theorem.
- 7. PAM Generation and Reconstruction.
- 8. PWM and PPM Generation and Reconstruction.
- 9. Synchronous Detector.
- 10. Mixer Circuit.
- 11. Spectrum Analyzer and Analysis of AM and FM signals.
- 12. Frequency Division Multiplexing and De-Multiplexing.
- 13. Frequency Synthesizer.
- 14. AGC Characteristics Synchronous Detector.
- 15. Squelch Circuit.
- **Note:** A minimum of 10(Ten) experiments have to be Performed and recorded by the candidate to attain eligibility for Semester End Practical Examination.