Communication Systems Laboratory (0-0-3) Subject code: ECC305

SL No	Name of the Experiments	No of Week
1	Generation of AM, DSBSC and SSBSC signal for a given modulating signal and carrier wave, comparison of the corresponding waveforms and spectra; effect of varying modulation index in AM.	**01**
2	AM demodulation by (i) coherent detection and (ii) envelope detection.	**01**
3	Generation of FM and PM wave for the given modulating signal and carrier wave, comparison of the corresponding waveforms and spectra; effect of varying modulation index in FM and PM.	**02**
4	Demodulation of (i) frequency-modulated and (ii) phase-modulated signals.	**01**
5	Generation of PCM signal, studying effect of varying number of quantization levels on reconstructed signal through waveforms and SQNR.	**02**
6	Generation of random signals, finding autocorrelation and power spectral density, White Gaussian noise and effect of passing it through a filter.	**01**
7	Studying effect of AWGN noise in AM, DSBSC and SSBSC systems	**01**
8	Frequency modulation and demodulation in noisy conditions	**01**
9	Study of PLL	**01**
10	Time-division multiplexing (TDM) of pulse code modulated signals and demultiplexing of the TDM signal	**01**
11	Mini project based on Communication Systems.	**01**
12	End Semester Lab Examination and Viva – Voce	**01**