

### Digital Communication Lab (EC – 4002)

Course Code	EC- 4002	Credits-2	L –0, T-0, P-2
Name of the Course	Digital Communication Lab		
Lectures to be Delivered	26 Hours of lab work (2 hrs each per week)		
Semester End Examination	<i>Max. Marks: 50</i>	<i>Min. Pass Marks: 20</i>	Maximum Time:3hrs
Laboratory Continuous Assessment	Lab work 30%, Lab Record 25%, Viva/ Hands on 25%, Attendance 20%)	<i>Max. Marks: 50</i>	<i>Min. Pass Marks: 25</i>

#### Instructions for paper setter/ Candidates

Laboratory examination will consist of two parts:

- (i) Performing a practical examination assigned by the examiner (25 marks)
- (ii) Viva-voce examination (25 marks)

Viva-voce examination will be related to the practicals performed / projects executed by the candidate related to the paper during the course of the semester.

#### List of Experiments:

1. To study Digital to Analog Conversion.
2. To study analog to Digital Conversion.
3. To study amplitude Modulation.
4. To study Frequency Modulation
5. To study Sampling and reconstruction for TDM-PAM.
6. To study and generate TDM-Pulse Amplitude modulation.
7. To study Pulse code Modulation (PCM)
8. To study delta modulation & dimod. Techniques
9. To study adaptive delta modulation and demodulation technique.
10. To study FSK.
11. To study PSK, QPSK modulation techniques.
12. To study QASK.
13. Optical Fibre Bared Experiments (Any 3)
14. To study PCM-TCM
15. To study TDM-PAM