Government Girls' Polytechnic, Bilaspur

Name of the Lab: **Communication Lab**

Practical: **Principles of Communication Lab**

Class :**IV sem (ET&T), V sem (IT)**
FOR ET&T
Teachers Assessment: 10   End Semester Examination:50
FOR IT
Teachers Assessment: 30   End Semester Examination 70

List of Experiments

1. Perform amplitude modulation of a signal, plot the waveform and calculate modulation Index.

2. Perform frequency modulation of a signal and trace the frequency modulated waveform from CRO.

3. Perform phase modulation of a signal and trace the phase modulated waveforms from CRO.

4. Perform signal sampling and reconstruction techniques.

5. Perform the TDM pulse amplitude modulation/demodulation & draw their waveform in the Graph.

6. Perform the division multiplexing pulse code modulation/demodulation.

7. Perform the delta modulation techniques and plot the waveforms.

8. Perform the adaptive delta modulation techniques and plot the waveforms.

9. Perform the modulation & demodulation in ASK, draw its waveforms.

10. Perform the modulation & demodulation in FSK, draw its waveforms.

11. Perform the modulation & demodulation in PSK, draw its waveforms.

12. Observe DSB/SSB AM transmitter waveforms and plot the graph.

13. Observe DSB/SSB AM receiver waveforms and plot the graph.

14. Study of EPABX machine.

15. Study of FAX machine.

16. Identify the various blocks & components of EPABX using an EPABX trainer.

17. Generation of De-emphasis circuit on breadboard system & to plot De-emphasis curve.