



Department of Electronics and Communication Engineering

LINEAR IC APPLICATIONS LABORATORY

II B.Tech II Semester

Course Code: A224485

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COURSE OUTCOMES:

At the end of the course the student should be able to

1. Design and analyze filter circuits using op-amp.
2. Design and analyze the various linear application of op-amp.
3. Design and analyze the various application of 555 timer.
4. Design and analyze the performance of oscillators.
5. Design and analyze IC 565, IC 723 and converters.

Note: Minimum 10 Experiments have to be conducted

1. Design of 2-input adder and subtractor using IC 741.
2. Design of Integrator and Differentiator circuit using IC 741.
3. Design of first order LPF and HPF using IC 741.
4. Design of Astable multivibrator using IC 741.
5. Design of triangular wave generator using IC 741.
6. Design of RC phase shift oscillator using IC 741.
7. Design of Wein-bridge oscillator using IC 741.
8. Analyze the operation of Weighted resistor type DAC and R-2R Ladder type DAC
9. Design Astable Multivibrator Circuit using IC 555 Timer.
10. Design Monostable Multivibrator Circuit using IC 555 Timer.
11. Calculation of Capture Range & Lock Range Using IC 565 PLL
12. Design a Voltage Regulator using IC 723.