

III Year I Semester

Code: 17EC512

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LINEAR INTEGRATED CIRCUIT ANALYSIS LAB

At least twelve experiments to be done using equipment and Simulink- The students have to calculate the relevant parameters.

1. Study of ICs – IC 741, IC 555, IC 565, IC 566, IC 1496 – functioning, parameters and specifications.
2. OP AMP Applications – Adder, Subtractor, Comparator circuits.
3. Integrator and Differentiator Circuits using IC 741
4. Active Filter Applications – 1st order LPF, HPF
5. Active Filter Applications – 1st order BPF, BEF (wide band) and Notch.
6. Phase Shift and Wien Bridge Oscillators using IC 741.
7. Function Generator using IC 741.
8. Monostable Multivibrator using IC 555.
9. Astable Multivibrator using IC 555.
10. Schmitt Trigger using IC 741 & IC 555
11. IC 565 – PLL Applications.
12. IC 566 – VCO Applications.
13. Voltage Regulator using IC 723
14. Three Terminal Voltage Regulators-7805, 7809, 7912
15. 4 bit DAC using IC 741.