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EC8462 LINEAR INTEGRATED CIRCUITS LABORATORY

DETAILED SYLLABUS

OBJECTIVES:

- To understand the basics of linear integrated circuits and available ICs
- To understand the characteristics of the operational amplifier.
- To apply operational amplifiers in linear and nonlinear applications.
- To acquire the basic knowledge of special function IC.
- To use SPICE software for circuit design

DESIGN AND TESTING OF THE FOLLOWING CIRCUITS

- 1. Inverting, Non inverting and differential amplifiers.
- 2. Integrator and Differentiator.
- 3. Instrumentation amplifier
- 4. Active low-pass, High-pass and band-pass filters.
- 5. Astable & Monostable multivibrators using Op-amp
- 6. Schmitt Trigger using op-amp.
- 7. Phase shift and Wien bridge oscillators using Op-amp.
- 8. Astable and Monostable multivibrators using NE555 Timer.
- 9. PLL characteristics and its use as Frequency Multiplier, Clock synchronization
- 10. R-2R Ladder Type D- A Converter using Op-amp.
- 11. DC power supply using LM317 and LM723.
- 12. Study of SMPS

SIMULATION USING SPICE:

- 1. Active low-pass, High-pass and band-pass filters using Op-amp
- 2. Astable and Monostable multivibrators using NE555 Timer.
- 3. A/ D converter
- 4. Analog multiplier