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EC8461 CIRCUITS DESIGN AND SIMULATION LABORATORY

DETAILED SYLLABUS

OBJECTIVES:

- To gain hands on experience in designing electronic circuits
- To learn simulation software used in circuit design
- To learn the fundamental principles of amplifier circuits
- To differentiate feedback amplifiers and oscillators.
- To differentiate the operation of various multivibrators

DESIGN AND ANALYSIS OF THE FOLLOWING CIRCUITS

- 1. Series and Shunt feedback amplifiers-Frequency response, Input and output impedance
- 2. RC Phase shift oscillator and Wien Bridge Oscillator
- 3. Hartley Oscillator and Colpitts Oscillator
- 4. Single Tuned Amplifier
- 5. RC Integrator and Differentiator circuits
- 6. Astable and Monostable multivibrators
- 7. Clippers and Clampers

SIMULATION USING SPICE (Using Transistor):

- 1. Tuned Collector Oscillator
- 2. Twin -T Oscillator / Wein Bridge Oscillator
- 3. Double and Stagger tuned Amplifiers
- 4. Bistable Multivibrator
- 5. Schmitt Trigger circuit with Predictable hysteresis
- 6. Analysis of power amplifier