

1. Name of the Lab : CIRCUITS DESIGN AND SIMULATION LABORATORY
Subject Code : EC8461 (EVEN SEMESTER) Regulations: R17

LIST OF EXPERIMENTS

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 Monostablemultivibrators
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. BistableMultivibrator
5. Schmitt Trigger circuit with Predictable hysteresis
6. Analysis of power amplifier

CONTENT BEYOND THE SYLLABUS

1. FM Transmitter
2. Find FET Devices and its characteristics
3. Class C amplifier using FET
4. Design of Differential amplifier using BJT