EC-255

ELECTRONIC CIRCUITS LAB

L T P C - - 3 2

COURSE OBJECTIVES:

- 1. To obtain the frequency responses of amplifier configurations like CE (Common Emitter), CS (Common Source), a cascaded RC coupled amplifier
- 2. To Design RC phase shift oscillator, Colpitts oscillator
- 3. To design a class A power amplifier.

COURSE OUTCOMES:

After successful completion of the course, the students are able to

- 1. demonstrate BJT and FET amplifiers, Feedback and Power amplifiers, and Oscillators.
- 2. Analyze the characteristics of BJT amplifiers, FET amplifiers, Feedback amplifiers and Power amplifiers.
- 3. Implement BJT and FET amplifiers, feedback amplifiers, oscillators and power amplifiers.
- 4. Implement current mirror circuit.

List of Experiments:

- 1. Frequency Response of Common Emitter Amplifier.
- 2. Frequency Response of Common Source Amplifier.
- 3. Measurement of Parameters of Emitter Follower : RI, AV, AI & RO.
- 4. Cascode Amplifier (CE-CB).
- 5. Darlington Pair amplifier.
- 6. Two Stage RC-Coupled Amplifier.
- 7. Voltage Shunt Feedback Amplifier.
- 8. Current Series Feedback Amplifier.
- 9. RC Phase Shift Oscillator.
- 10. Hartley Oscillator.
- 11. Colpitts Oscillator.
- 12. Wien bridge Oscillator.
- 13. Complementary Symmetry Class-B Push-pull Amplifier.
- 14. Class-A Power Amplifier.
- 15. Current mirror circuit.
- **Note:** A minimum of 10(Ten) experiments have to be performed and recorded by the candidate to attain eligibility for Semester End Practical Examination.