ANALOG ELECTRONICS - II LAB
PCC-ECE206-P

Course Credits: 2 Contact Hours: 4/week per group (L-T-P: 0-0-4) Mode: Lab Work	**Course Assessment(Internal: 30; External: 70)**

Pre-requisites: Analog Electronics-I Lab.

Sr. No.	Course Outcomes At the end of the semester, students will be able:	RBT Level
CO 1	To trace the characteristics of semiconductor devices.	L1
CO 2	To identify the various electronic components and differentiate among them based upon their characteristics.	L2
CO 3	To demonstrate the applications of semiconductor devices.	L3
CO 4	To design various analog circuits and evaluate their parameters.	H2

List of Experiments

1. To study the characteristics of UJT.
2. To study the characteristics of DIAC.
3. To study the characteristics of TRIAC.
4. To study the characteristics of SCR.
5. To design a BJT Darlington emitter follower and determine the gain.
6. To design and study Class A power amplifier.
7. To design and study Class B power amplifier.
8. To design and study Class A-B push-pull power amplifier.
9. To design and study class C power amplifier.
10. To design and study the frequency response of a RC coupled amplifier.
11. To study the effect of BJT voltage series feedback amplifier and determine the gain, frequency response, input and output impedance with and without feedback.
12. To study the effect of FET voltage series feedback amplifier and determine the gain, frequency response, input and output impedance with and without feedback
13. To study the RC phase shift oscillator circuit.
14. To study the Wein bridge oscillator circuit.
15. To study the Hartley's oscillator circuit.
16. To study the Colpitt's oscillator circuit.
17. Simple project (Any topic related to the scope of the course).

NOTE: At least 12 experiments are to be performed in the semester, out of which at least 8 experiments should be performed from above list. Remaining experiments may either be performed from the above list or designed & set by the concerned institution as per the scope of the syllabus.