

ECP-101-A	ELECTRONIC COMPONENTS AND DEVICES LAB	L	T	P	Cr
		0	0	3	2

Note: At least ten experiments are to be performed during the semester. At least eight experiments should be performed from the list of experiments. Two experiments may either be performed from the given list of experiments or may be designed by the concern faculty in consultation with H.O.D as per the scope of syllabus.

List of Experiments:

1. To get familiar with the working knowledge of the following instruments:
 - i. Cathode ray oscilloscope (CRO)
 - ii. Multimeter (Analog and Digital)
 - iii. Function generator
2. Plot the forward and reverse V-I characteristics of P-N junction diode and determine static and dynamic resistance.
3. To plot the characteristic of Zener diode and hence determine the dynamic resistance from the characteristic.
4. To study the characteristics of Zener diode as voltage regulator.
5. To plot the input and output characteristics of BJT in common-emitter configuration.
6. Plot drain current - drain voltage and drain current – gate bias characteristics of field effect transistor and measure of I_{dss} & V_p .
7. Design and realize Inverting and Non-Inverting Amplifier using Op-AMP(IC-741).
8. Design and realize Adder and subtractor circuits using Op-AMP(IC-741).
9. Design and realize Integrator Circuit using Op-AMP(IC-741)
10. Design and realize Differentiator circuit using Op-AMP(IC-741).