



# Laboratory Manual

## CPE2231: Electronic Devices & Circuits Lab

Name: \_\_\_\_\_

Reg. No. : \_\_\_\_\_

Section: \_\_\_\_\_

The logo consists of a red rectangle on top of a purple rectangle. The letters 'C.U.S.T.' are written in white serif font on the purple background.

Department of Electrical & Computer Engineering  
**Capital University of Science and Technology**  
**Islamabad, Pakistan**

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**Prepared By: Engr. Ahmed Ali**

**Revised By: Engr. Awais Riaz**

<b>S. No</b>	<b>List of Experiments</b>
1	Oscilloscope and Function Generator Operation
2	V-I Characteristics of Diode
3	Analysis of Series and Parallel Connected Diodes
4	Analysis of Half and Full Wave Rectifiers
5	Operation of Clipper Circuits
6	Light Emitting and Zener Diode
7	DC Analysis of Bipolar Junction Transistor (BJT)
8	Determination of Q-Point for Fixed and Voltage Divider Bias Configuration of a BJT
9	DC Analysis of Junction Field Effect Transistor (JFET)
10	Determination of Q-Point for Fixed, Self and Voltage Divider Bias Configuration of JFET Circuits
11	AC Analysis of Common Emitter and Common Base Amplifier
12	AC Analysis of Common Source JFET Amplifier

## **Lab Safety Rules**

- Be sure that all equipment is properly working before using them for laboratory exercises. Any defective equipment must be reported immediately to the Lab Engineer or Lab Technical Staff.
- Students should keep a safe distance from the circuit breakers, electric circuits or any moving parts during the experiment.
- Avoid any part of your body to be connected to the energized circuit and ground.
- Switch off the equipment and disconnect the power supplies from the circuit before leaving the laboratory.
- Make sure that the last connection to be made in your circuit is the power supply and first thing to be disconnected is also the power supply.
- Equipment should not be removed, transferred to any location without permission from the laboratory staff.