

Department: Electronics and Communication Engineering
BEE351- ELECTRONIC DEVICES LAB

LIST OF EXPERIMENT

SUGGESTIVE LIST OF EXPERIMENTS

1. Study of Lab Equipment and Components: CRO, multimeter, and function generator, power supply- active, passive components and bread board.
2. P-N Junction diode: Characteristics of PN junction diode - static and dynamic resistance measurement from graph.
3. Applications of PN Junction diode: Half & Full wave rectifier- Measurement of V_{rms} , V_{dc} , and ripple factor.
4. Characteristics of Zener diode: V-I characteristics of Zener diode, graphical measurement of forward and reverse resistance.
5. Characteristics of Photo diode: V-I characteristics of photo diode, graphical measurement of forward and reverse resistance.
6. Characteristics of Solar cell: V-I characteristics of solar cell, graphical measurement of forward and reverse resistance.
7. Application of Zener diode: Zener diode as voltage regulator. Measurement of percentage regulation by varying load resistor.
8. Characteristic of BJT: BJT in CE configuration- graphical measurement of h-parameters from input and output characteristics. Measurement of A_v , A_i , R_o and R_i of CE amplifier with potential divider biasing.
9. Field Effect Transistors: Single stage common source FET amplifier –plot of gain in dB Vs frequency, measurement of, bandwidth, input impedance, maximum signal handling capacity (MSHC) of an amplifier.
10. Metal Oxide Semiconductor Field Effect Transistors: Single stage MOSFET amplifier –plot of gain in dB Vs frequency, measurement of, bandwidth, input impedance, maximum signal handling capacity (MSHC) of an amplifier.
11. Simulation of amplifier circuits studied in the lab using any available simulation software and measurement of bandwidth and other parameters with the help of simulation software. Calibration of AC voltmeter and AC ammeter.

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LIST OF EQUIPMENT

Subject Code of the Lab : KEC 351

Name of the Lab : ELECTRONIC DEVICES LAB

S. No.	Name of Equipment
1	POWER SUPPLY (SCIENTECH ST-4071)
2	POWER SUPPLY (SCIENTECH HM-5040)
3	POWER SUPPLY (TRINITY TPS -30027)
4	FUNCTION GENERATOR (SCIENTIFIC 10MHZ SM-5078A)
5	FUNCTION GENERATOR (KEYSIGHT 10KHZ 33210A)
6	FUNCTION GENERATOR (SCIENTIFIC 10MHZ 4061)
7	DSO (KEYSIGHT 50MHZ EDUX1002A)
8	DSO (SCIENTECH 70MHZ 402)
9	LCR METER (CADDO MODEL NO. 9302)
10	CRO (SCIENTIFIC 30MHZ HM - 203M)
11	IC TESTER (EXEL)