

PHYSICS LAB EQUIPMENTS

1. To study the characteristic of a RC circuit.
2. To verify and Design AND, OR, NOT and XOR Gate using NAND Gate.
3. To Design a switch (NOT GATE) using a Transistor.
4. To determine work function of material of filament of directly heated vacuum diode.
5. To determine the planck's constant using LEDs of at least 4 different colours.
6. To study the V-I characteristic of PN Junction diode and Light Emitting Diode.
7. To measure the Dielectric constant of Dielectric material with frequency.
8. To study the BH curve of iron using a solenoid and determine the energy loss.
9. To design a power supply using bridge rectifier and study the effect of C filter.
10. To study the output and transfer characteristic of a JFET.
11. To verify Stefan's law of radiation and to determine Stefan's constant.
12. To determine the refractive index of
(1) Glass and (2) a liquid by total internal Re using Gaussian Eye
13. To verify Thevenin & Norton theorems.
14. Multimeter 02
15. To build Flip Flop circuit using NAND GATE.
16. Half Adder, Full adder and Bit Binary Adder.
17. To study output Characteristics of a MOSFET.
18. To study the Characteristics of a Bipolar junction transistor in CE configuration.
19. Determine the ionisation potential of Mercury.
20. To study the motion of spring and calculate (1) spring constant (2) g (3) Modulus of rigidity.
21. Slide Callipers 05pcs
22. Screw gauge 05pcs
23. Solid cylinder of varying length 05pcs
24. Wooden stool 10 pcs to perform Experiments.
25. Induction cooker 1000watt