#### Galgotias College of Engineering and Technology 1, Knowledge Park-II, Greater Noida, 201306(Uttar Pradesh)

Department: Electronics and Communication Engineering

# BASIC ELECTRONICS ENGINEERING LAB (BEC-151/251) LIST OF EXPERIMENTS (As per AKTU Syllabus)

- 1. Study of various types of Active & Passive Components based on their ratings.
- 2. Identification of various types of Printed Circuit Boards (PCB) and soldering Techniques.
- 3. Soldering shop: Soldering and disordering of Resistor in PCB. Soldering and disordering of IC in PCB. Soldering and disordering of Capacitor in PCB.
- 4. Study of Lab Equipments and Components: CRO, Multimeter, and Function Generator, Power supply- Active, Passive Components and Bread Board.
- 5. P-N Junction diode: Characteristics of PN Junction diode Static and dynamic resistance Measurement from graph.
- 6. Applications of PN Junction diode: Half & Full wave rectifier-Measurement of Vrms, Vdc, and ripple factor.
- 7. Characteristics of Zener diode: V-I characteristics of Zener diode, Graphical measurement of forward and reverse resistance.
- 8. Characteristic of BJT: BJT in CE configuration.
- 9. To study Operational Amplifier as Adder and Subtractor.
- 10. Verification of Truth Table of Various Logic Gate.
- 11.Implementation of the given Boolean function using logic gates in both SOP and POS forms.

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## BASIC ELECTRONICS ENGINEERING LAB (BEC-151/251) LIST OF EQUIPMENT

S. No.	Name of Equipment
1	CRO with Probe.
2	Function Generator
3	Digital Multimeter (DMM)
4	Bread Board
5	Soldering Equipment
6	Transformer Centre Tapping
7	Diode
8	Zener diode
9	Regulated power supply
10	IC bread board trainer
11	Digital trainer kit
12	Transistor NPN
13	Connecting leads
14	Active and passive components (Diode, Transistor, Resistance, Capacitance)