

IQRA NATIONAL UNIVERSITY



DEPARTMENT OF ELECTRICAL ENGINEERING

EEE101 - LINAER CIRCUIT ANALYSIS (LAB)

LAB MANUAL

NAME : _____

ROLL NO. _____

SECTION: _____ **GROUP:** _____

DEPARTMENT OF ELECTRICAL ENGINEERING

LINEAR CIRCUIT ANALYSIS

LIST OF EXPERIMENTS

<u>S.NO</u>	<u>EXPERIMENTS</u>
0.	Introduction
1.	Analysis of a simple DC circuit by Ohm's Law
2.	Implementation of a Series DC circuit
3.	Implementation of a Parallel DC circuit
4.	Implementation of a Series-parallel DC circuit
5.	Implementation of Ladder and Bridge Circuits
6.	Implementation of Potentiometer and Rheostat in DC Circuits
7.	To analyze a DC circuit by Superposition Theorem
8.	To analyze a DC circuit by Thevenin's Theorem
9.	To analyze a DC circuit by Mesh Analysis
10.	To analyze a DC circuit by Nodal Analysis
11.	To analyze the maximum power transfer in a DC circuit
12.	Implementation of a DC RLC circuit

INTRODUCTION

OBJECTIVE:

EQUIPEMENT USED:

DC POWER SUPPLY:



Figure 1
DC power supply

DIGITAL MULTI-METER (DMM):



Figure 2
Digital multi-meter

RESISTOR:



Figure 3
Resistor

CONNECTING WIRES:



Figure 4
Connecting wires

BREAD BOARD:



Figure 5
Bread board

CAPACITOR:

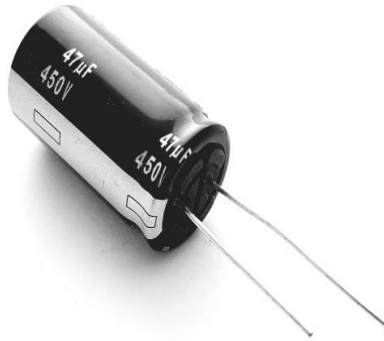


Figure 6
Capacitor

INDUCTOR:



Figure 6
Inductor

CONCLUSION:

DATE: _____

MARKS OBTAINED: _____

INSTRUCTOR'S SIGNATURE: _____