

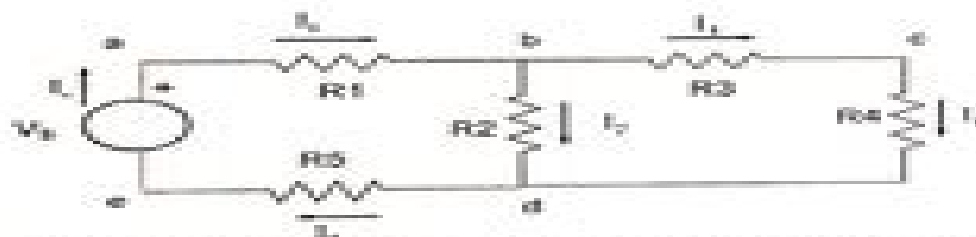
EXPERIMENT No.1

Aim: To verify Kirchhoff Voltage Law and Kirchhoff Current Law using hardware and Proteus software

Apparatus required:

S. No.	Items	Specifications	Quantity
1	DC Voltage source	0-20V	01
2	Resistors	1-2 ohms	05
3	Ammeter	Digital type	01
4	Voltmeter	Digital type	01
5	Connecting wires	As per requirements	

1. Kirchhoff's Voltage Law states that the algebraic sum of all the voltages around any closed path (loop or mesh) is zero.



Applying Kirchhoff's voltage law to the first and the second loops in the circuit shown in Figure yields:

$$\text{Loop 1: } -V_s + V_1 + V_2 + V_5 = 0 \quad (1a)$$

$$\text{Loop 2: } -V_2 + V_3 + V_4 = 0 \quad (1b)$$

2. Kirchhoff's Current Law states that the algebraic sum of all the currents at any node is zero.

Applying Kirchhoff's current law to the first four nodes in the circuit shown in Figure yields the following equations:

$$\text{Node a: } -I_5 + I_1 = 0 \quad (2a)$$

$$\text{Node b: } -I_1 + I_2 + I_3 = 0 \quad (2b)$$

$$\text{Node c: } -I_3 + I_4 = 0 \quad (2c)$$

$$\text{Node d: } -I_2 - I_4 + I_5 = 0 \quad (2d)$$

Engineering Diploma Lab Manuals For Ece

RJ Alexander



Engineering Diploma Lab Manuals For Ece:

Lab Manual for Meade's Foundations of Electronics, 5th Russell Meade, Robert Diffenderfer, 2006-05 The Lab Manual for FOUNDATIONS OF ELECTRONICS CIRCUITS DEVICES 5th Edition is a valuable tool designed to enhance your classroom experience Lab activities objectives materials lists step by step procedures illustrations review questions and more are all included ES 402 : Electrical Engineering Lab Manual Wayne M. Hope, 2000 **Survey Laboratory (Lab Manual)** Na Vikraman, 2020-08-03 This book has been written for BE B Tech students of All University with latest syllabus for ECE EEE CSE IT Bio Medical Mech Civil Departments also it is very useful for Diploma Arts Science Students The basic aim of this book is to provide a basic knowledge in Survey Laboratory Program for engineering students of degree diploma AMIE courses and a useful reference for these preparing for competitive examinations All Experiments have excellent output results All the concepts are explained in a simple clear and complete manner to achieve progressive learning Each Programs is well supported with the necessary illustration practical output explanations **Electrical Engineering Lab** M. Riaz, 1966 **A Laboratory Manual to Accompany a First Course in Electrical Engineering (EE 201)** R. P. Ward, 1961 *Basic Electrical and Electronics Engineering Laboratory Manual* Jaspreet Singh, 2021-05-19 basic electrical and electronics laboratory manual for engineering and diploma in engineering courses ELECTRONICS LAB MANUAL Volume I, FIFTH EDITION NAVAS, K. A., 2015-09-11 This lab manual is intended to support the students of undergraduate engineering in the related fields of electronics engineering for practicing laboratory experiments It will also be useful to the undergraduate students of electrical science branches of engineering and applied science This book begins with an introduction to the electronic components and equipment and the experiments for electronics workshop Further it covers experiments for basic electronics lab electronic circuits lab and digital electronics lab A separate chapter is devoted to the simulation of electronics experiments using PSpice Each experiment has aim components and equipment required theory circuit diagram tables graphs alternate circuits answered questions and troubleshooting techniques Answered viva voce questions and solved examination questions given at the end of each experiment will be very helpful for the students The purpose of the experiments described here is to acquaint the students with Analog and digital devices Design of circuits Instruments and procedures for electronic test and measurement **Introduction to Electrical and Computer Engineering** Patrick Nunally, 2021-12-26 This laboratory manual is intended for use in an Introduction to Electrical and Computer Engineering course and is appropriate for two and four year electrical engineering curriculums The manual contains sufficient exercises for a typical 15 week course using a two to three hour practicum period The topics range from basic laboratory procedures series parallel circuits mesh and nodal analysis an introduction to capacitors and inductors as well as basic digital logic Boolean equivalents digital encoders decoders mux and demux circuits as well as basic circuits for digital computation For equipment each lab station should include a dual adjustable DC power supply and a quality DMM capable of reading DC

voltage current and resistance A selection of standard value 1 4 watt carbon film resistor ranging from a few ohms to a few mega ohms is required along with 10 k and 100 k potentiometers 100 nF and 220 nF capacitors and a few discrete 7400 series logic gates and 555 timers Each exercise begins with an Objective and a Theory Overview The Equipment List follows with space provided for serial numbers and measured values of components Schematics are presented next along with the step by step procedure All data tables are grouped together typically with columns for the theoretical and experimental results along with a column for the percent deviations between them Finally a group of appropriate questions are presented For those with longer scheduled lab times a useful addition is to simulate the circuit s with a SPICE based tool such as LTSpice or similar software and compare those results to the theoretical and experimental results as well *Laboratory Manual for Basic Electrical Engineering* Indian Institute of Technology. Electrical Engineering Dept. Curriculum Development Cell,1978 **Electrical Laboratory Manual Introductory Course** ,1933 **Engineering Practices Lab**

Manual - 5Th E T Jeyapoovan Nadar, Engineering Practices Lab Manual covers all the basic engineering lab practices in the Civil Mechanical Electrical and Electronics areas The manual details the various tools to be used and exercises to be practiced in the application of engineering practices in each field **Electrical Engineering Laboratory Manual** Memorial University of Newfoundland. Faculty of Engineering and Applied Science,H. M. Grant,1968 Electronics for Electrical Engineering Technician Program, ELE 8930 : Lab Manual Bourgon, Gilles,Algonquin College,1998

Engineering Practices Laboratory Manual Suyambazhahan,2009-12 This book introduces various engineering practices in civil engineering mechanical engineering and electrical and electronics engineering to first year BE B Tech students It explains various engineering tools and equipment and their use in different fields of engineering This book helps students gain fundamental and practical knowledge in the following areas of engineering practices Plumbing and carpentry Arc and gas welding sheet metalwork and basic machining Smithy foundry machine assembly and fitting operations and Electrical and electronic components and equipment It includes a large number of figures and examples for easy understanding of operations of tools and equipment It provides sufficient exercises to help students gain hands on experience of engineering practices It offers viva questions with answers for practical examinations **Electronics-2 for Electrical Engineering Technician Program, ELE 8930 : Lab Manual** Bourgon, Gilles,Algonquin College,2001 *EE100 Laboratory Manual* University of Newcastle (N.S.W.). Department of Electrical and Computer Engineering,1987

Electrical Engineering Laboratory Manual Lester Elmer Beck,1940 **Laboratory Manual for Electrical Engineering 305** ,1963 *A Laboratory Manual for Students of Electrical Engineering* George Forster,California Institute of Technology. Division of Engineering and Applied Science,1926 *Laboratory Manual for Basic Electrical Engineering* ,1978

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