



Government Girls' Polytechnic, Bilaspur

Name of the Lab: Digital Electronics Lab

Practical: Digital Electronics Lab

Class :3rd Semester (ET&T), 3rd Semester (CS)
FOR ET&T

Teachers Assessment: 10 End Semester Examination: 50

FOR CS

Teachers Assessment: 20 End Semester Examination: 50

EXPERIMENT No- 1

OBJECTIVE: - Verify Truth Table of Logic Gates (AND, OR, NOT, NAND & NOR Gates).

EQUIPMENT REQUIRED: - All the basic gate mention in the fig.

THEORY: - There are different gates available in digital electronic filed. Which is used to perform the different tasks they are as follow:-

AND GATE: - This gate is used for the multiplication of two binary digits.

OR GATE: - This gate is used for the addition of two binary digits.

NOT GATE: - This gate gives the compliment of given binary digit.

NAND GATE: - This gate is used for giving compliment of multiplication of two binary digits.

NOR GATE: - This gate is used for giving compliment of the addition of two binary digits

DAIGRAMS:-

2-input AND gate



A	B	Output
0	0	0
0	1	0
1	0	0
1	1	1

1-input NOT gate

2-input OR gate



A	B	Output
0	0	0
0	1	1
1	0	1
1	1	1

2-input NAND gate

Polytechnic Electronics Lab Manual

NAVAS, K. A.



Polytechnic Electronics Lab Manual:

Laboratory Manual for Introductory Electronics Experiments L. K. Maheshwari, M. M. S. Anand, 1979 *Experiments In Basic Electrical Engineering* S.K. Bhattacharya, 2007 It has often been experienced that students are required to perform experiments on certain topics before the relevant theory has been taught in the class. A laboratory manual which in addition to a set of instructions for performing experiments includes related theory in brief could help students understand experiments better in response of demand from a large number of states. For an appropriate laboratory manual in basic electricity and electrical measurements, the T T T I Chandigarh has prepared this manual which has been tried out in various polytechnics and improved based on the feedback. The basic objective of the manual is to encourage students to perform experiments independently and purposefully. The manual organises the information to enable the students to verify known concepts and principles and to follow certain procedures and practices and thereby acquire relevant skills. Detailed instructions for carrying out each experiment along with relevant theory in brief have been given. The objectives for performing an experiment have been included at the beginning of each experiment. A list of questions given at the end of each experiment will help students evaluate their own understanding. The manual also includes guidelines for students and teachers for its effective use. An assessment proforma given at the beginning of the manual may be used by the teachers in evaluating the students. 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 *Fundamentals of Electrical and Electronics Engineering | AICTE Prescribed Textbook - English* Susan S. Mathew, Saji T. Chacko, 2021-11-01 Fundamentals of Electrical Electronics Engineering is a compulsory paper for the first year Diploma course in Engineering Technology. Syllabus of this book is strictly aligned as per model curriculum of AICTE and academic content is amalgamated with the concept of outcome based education. Books covers six topics Overview of Electronics Components and Signals Overview of Analog Circuits Overview of Digital Electronics Electric and magnetic Circuits A C Circuits and Transformer and Machines. Each topic is written in easy and lucid manner. A set of exercises at the end of each unit to test the student's comprehension is provided. Some salient features of the book are: Content of the book aligned with the mapping of Course Outcomes Programs Outcomes and Unit Outcomes. The practical applications of the topics are discussed along with micro projects and activities for generating further curiosity as well as improving problem solving capacity. Book provides lots of vital facts concepts principles and other interesting information. QR Codes of video resources and websites to enhance use of ICT for relevant supportive knowledge have been provided. Student and teacher centric course materials included in book in balanced manner. Figures tables equations and comparative charts are inserted to improve clarity of the topics. Objective questions and subjective questions are given for practices of students at the end of each unit. Solved and unsolved problems including numerical examples are solved with systematic steps Handbook Of

Experiments In Electronics A B Sasikala,2003 Well written handy and comprehensive this laboratory experiments manual caters to the requirements of students of Electronics and Communication Engineering Each experiment in the book provides essential theory aim scope statement equipment required procedure complete circuit diagram tabulation model graphs and results A complete laboratory manual for students of electronics and communication engineering Also useful for EEE EIE CSE IT ICE mechanical and polytechnic students **Title Announcement Bulletin** ,1957 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 **American Book Publishing Record** ,1984

Scientific and Technical Aerospace Reports ,1994 Lists citations with abstracts for aerospace related reports obtained from world wide sources and announces documents that have recently been entered into the NASA Scientific and Technical Information Database **American Book Publishing Record Cumulative, 1950-1977** R.R. Bowker Company. Department of Bibliography,1978

The Enigmatic Realm of **Polytechnic Electronics Lab Manual**: Unleashing the Language is Inner Magic

In a fast-paced digital era where connections and knowledge intertwine, the enigmatic realm of language reveals its inherent magic. Its capacity to stir emotions, ignite contemplation, and catalyze profound transformations is nothing short of extraordinary. Within the captivating pages of **Polytechnic Electronics Lab Manual** a literary masterpiece penned by way of a renowned author, readers embark on a transformative journey, unlocking the secrets and untapped potential embedded within each word. In this evaluation, we shall explore the book's core themes, assess its distinct writing style, and delve into its lasting effect on the hearts and minds of those who partake in its reading experience.

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