



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

2-input OR gate



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

1-input NOT gate

2-input NAND gate

Polytechnic Electronics Lab Manual

Michael Seilmaier



Polytechnic Electronics Lab Manual:

ELECTRONICS LAB MANUAL (VOLUME 2) NAVAS, K. A., 2018-10-01 This book is evolved from the experience of the author who taught all lab courses in his three decades of teaching in various universities in India The objective of this lab manual is to provide information to undergraduate students to practice experiments in electronics laboratories This book covers 118 experiments for linear analog integrated circuits lab communication engineering lab power electronics lab microwave lab and optical communication lab The experiments described in this book enable the students to learn Various analog integrated circuits and their functions Analog and digital communication techniques Power electronics circuits and their functions Microwave equipment and components Optical communication devices This book is intended for the B Tech students of Electronics and Communication Engineering Electrical and Electronics Engineering Biomedical Electronics Instrumentation and Control Computer Science and Applied Electronics It is designed not only for engineering students but can also be used by BSc MSc Physics and Diploma students KEY FEATURES Contains aim components and equipment required theory circuit diagram pin outs of active devices design tables graphs alternate circuits and troubleshooting techniques for each experiment Includes viva voce and examination questions with their answers Provides exposure on various devices TARGET AUDIENCE B Tech Electronics and Communication Engineering Electrical and Electronics Engineering Biomedical Electronics Instrumentation and Control Computer Science and Applied Electronics BSc MSc Physics Diploma Engineering *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 Topic 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 Alongwith 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 His 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

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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 *Title Announcement Bulletin* ,1957 **American Book Publishing Record** ,1984 **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 **American Book Publishing Record Cumulative, 1950-1977** R.R. Bowker Company. Department of Bibliography,1978 *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 **Popular Electronics** ,1974 **Great Careers with a High School Diploma** Deborah Porterfield,2008 An introduction to such healthcare and medical related jobs as dental assistant nurse aide or veterinary assistant **Government-wide Index to Federal Research & Development Reports** ,1967-05 **Technical Publications Announcements with Indexes** United States. National Aeronautics and Space Administration,1962 Subject Index to Unclassified ASTIA Documents Defense Documentation Center (U.S.),1960 Resources in Education ,1994 *European Electronics Directory 1994* C.G. Wedgwood,2013-10-22 Companion volume to Components and Sub Assemblies Directory providing access to 8000 manufacturers agents and representatives of electronics systems and equipment Entries include names of key managers addresses fax telephone numbers and pocket descriptions of manufacturing and sales programmes There is also a product index to track the companies involved in any given business lines

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