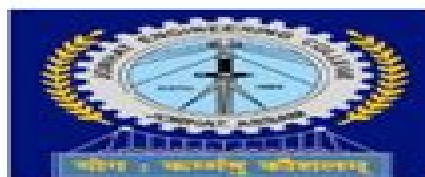
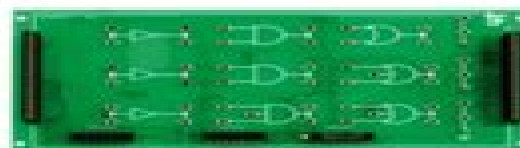


# **LABORATORY MANUAL**

## **Digital Systems and Logic Design**

### **Laboratory**



**Department of Instrumentation Engineering**  
**JORHAT ENGINEERING COLLEGE**  
**Assam-785007**

# Digital Circuit And Logic Design Lab Manual

**Lingsheng Yao**



## **Digital Circuit And Logic Design Lab Manual:**

*Digital Circuit Design Laboratory Manual, 4th edition (Global)* Akhan Almagambetov, J. Matt Pavlina, Yelena Mukhortova, 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 an 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.

*Digital Design from Zero to One* Jerry D. Daniels, 1996-04-19 Takes a fresh look at basic digital design. From definition to example to graphic illustration to simulation, the book progresses through the main themes of digital design. Technically up to date, this book covers all the latest topics: Field programmable gate arrays (FPGAs), PALs, and ROMs. The latest memory chips for SRAM and DRAM are shown. Software for creating the excitation equations of FSMs are covered, as well as LogicWorks and Beige Bag PC and more. **Experiments Manual for Digital Electronics** Roger L. Tokheim, 2003

*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, AC Circuits and Transformer and Machines. Each topic is written in an 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: 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      **Computer Design Aids for VLSI Circuits** P. Antognetti, Donald O. Pederson, Hugo De Man, 2013-11-11 The Nato Advanced Study Institute on Computer Design Aids for VLSI Circuits was held from July 21 to August 1 1980 at Sogesta Urbino Italy Sixty three carefully chosen professionals were invited to participate in this institute together with 12 lecturers and 7 assistants The 63 participants were selected from a group of almost 140 applicants Each had the background to learn effectively the set of computer IC design aids which were presented Each also had individual expertise in at least one of the topics of the Institute The Institute was designed to provide hands on type of experience rather than consisting of solely lecture and discussion Each morning detailed presentations were made concerning the critical algorithms that are used in the various types of computer IC design aids Each afternoon a lengthy period was used to provide the participants with direct access to the computer programs In addition to using the programs the individual could if his expertise was sufficient make modifications of and extensions to the programs or establish limitations of these present aids The interest in this hands on activity was very high and many participants worked with the programs every free hour The editors would like to thank the Direction of SOGESTA for the excellent facilities 1r R Riccioni of the SOGESTA Computer Center and Mr 11 Vanzi of the University of Genova for enabling all the programs to run smoothly on the set date P Antognetti D O Pederson Urbino Summer 1980      *Design of Digital Systems* Gregory L. Moss, Moss, 1997-06      **Industrial Electronics: A Text-lab Manual** Paul B. Zbar, 1972

*Fundamentals of Digital Electronics* Robert K. Dueck, 1994      **Catalog of Technical Reports** United States. Dept. of Commerce. Office of Technical Services,      *Resources in Education*, 1997      **Digital Logic Simulation with CPLD Programming** Steve Waterman, 2003 This lab manual written around software and hardware developments of the past ten years focuses on the fundamentals of digital electronics and use of Max Plus II software by Altera Corporation Lab sequences start with digital gates and logic control circuits progress to MSI devices latches and flip flops and cover clock dependent circuits and the LPM\_MACRO functions available in the software For individuals preparing to be computer technicians  
*U.S. Government Research Reports*, 1964      *Government Reports Announcements*, 1974      Scientific and Technical Aerospace Reports, 1989      **Energy Research Abstracts**, 1981      *Computers and Data Processing Systems*, 1962

**Subject Guide to Books in Print**, 1996      *Microelectronics Education* Adrian M. Ionescu, Michel Declercq, Maher Kayal, Yusuf Leblebici, 2013-03-19 In this book key contributions on developments and challenges in research and education on microelectronics microsystems and related areas are published Topics of interest include but are not limited to emerging fields in design and technology new concepts in teaching multimedia in microelectronics industrial roadmaps and microelectronic education curricula nanoelectronics teaching long distance education The book is intended for academic education level and targets professors researchers and PhDs involved in microelectronics and or more generally in electrical engineering microsystems and material sciences The 2004 edition of European Workshop on Microelectronics Education

EWME is particularly focused on the interface between microelectronics and bio medical sciences      **Introduction to Digital Logic** Textbook Equity, 2014-09-10 This textbook released under a Creative Commons Share Alike CC BY SA license is presented in its original format with the academic content unchanged It was authored by James Fehrer and reviewed by colleagues and provided by the University of Georgia's Global Textbook Project This lab manual provides an introduction to digital logic starting with simple gates and building up to state machines Students should have a solid understanding of algebra as well as a rudimentary understanding of basic electricity including voltage current resistance capacitance inductance and how they relate to direct current circuits

## Unveiling the Energy of Verbal Art: An Mental Sojourn through **Digital Circuit And Logic Design Lab Manual**

In some sort of inundated with screens and the cacophony of fast interaction, the profound power and emotional resonance of verbal artistry usually disappear into obscurity, eclipsed by the constant barrage of noise and distractions. However, located within the lyrical pages of **Digital Circuit And Logic Design Lab Manual**, a fascinating work of literary splendor that pulses with raw thoughts, lies an memorable journey waiting to be embarked upon. Composed by way of a virtuoso wordsmith, that mesmerizing opus instructions readers on an emotional odyssey, softly revealing the latent potential and profound impact stuck within the complicated internet of language. Within the heart-wrenching expanse of this evocative evaluation, we shall embark upon an introspective exploration of the book is central themes, dissect its charming publishing model, and immerse ourselves in the indelible impact it leaves upon the depths of readers souls.

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