

**EE2356-MICROPROCESSOR AND
MICROCONTROLLER LAB MANUAL
VI SEMESTER
(EEE)
SYLLABUS**

LIST OF EXPERIMENTS

8 – BIT MICROPROCESSOR

1. Simple arithmetic operations: Multi precision addition / subtraction / multiplication / division.
2. Programming with control instructions: Increment / Decrement, Ascending / Descending order, Maximum / Minimum of numbers, rotate instructions Hex / ASCII / BCD conversions.
3. A/D Interfacing.
4. D/A Interfacing.
5. Traffic Light Controller Interfacing.
6. Stepper motor Interfacing.
7. Simple experiments using 8251, 8279, 8254.

16 – BIT MICROPROCESSOR

8. Simple arithmetic operations: Multi Precision addition / Subtraction / Multiplication / Division.

8 – BIT MICROCONTROLLER

9. Demonstration of basic instructions with 8051 Micro controller execution, including:
 - a. Conditional jumps, looping
 - b. Calling subroutines.
 - c. Stack parameter testing.
10. Interfacing Keyboard and Display
11. Stepper motor Interfacing
 - a. D/A Interfacing

Ee2356 Microprocessor And Microcontroller Laboratory Manual

George B. Rutkowski, Jerome E. Oleksy



Ee2356 Microprocessor And Microcontroller Laboratory Manual:

Practical Electronics (Volume I) Balamurugan A,Veeramanikandasamy T,2019-12-28 Laboratory experiences are the part of science and technology curricula of higher education This laboratory manual intended to support the undergraduate and postgraduate students in the related fields of Electronics for practicing embedded system experiments The chapters begin with an introduction and it covers the experiments for the 8085 Microprocessor 8051 Microcontroller laboratory Each experiment consists of aim hardware software requirements algorithm program experimental results and conclusion For the most part the lab manual includes the standard laboratory experiments that have been used by many academicians related to electronics departments for years Over sixty three practical experiments described here to explore the practical knowledge of students on embedded systems This book comprises two chapters that are focused on the lab experiments of the 8085 Microprocessor 8051 Microcontroller laboratory This book helps to Promote experiential learning among the students Give practical or informal knowledge to understand how things work Know the interaction between software and hardware

MSP430 Microcontroller Lab Manual James Kretzschmar,Jeffrey Anderson,Steven F. Barrett,2024-05-25 This book is a practical reference for using Texas Instruments MSP430 microcontrollers It provides a series of hands on laboratory exercises The labs may be completed in a traditional laboratory setting or at home using the Digilent Analog Discovery 2 Test Instrument This book can be used as a reference for planning future projects using the MSP430 microcontroller The authors focus on applications of the main peripheral modules available on the MSP430 microcontroller CPU clock Basic Input Output Timer Analog to Digital Converter They also provide examples of how to develop Pulse Width Modulation signals and how to use Interrupts

Laboratory Manual for Microprocessor Technology and Microcomputers Edward J. Pasahow,Edward J. Pasahow Microprocessor technology and microcomputers,1988 *M6800 Microprocessor : Lab Manual* Burrows, S. (Stuart),Algonquin College. Electronics Department,Hanbury, Michael,1994 **Microcontroller Lab** Robert E. Glaser,2006-09-01

Digital Electronics and Microprocessors Lab Manual Mr. Rohit Manglik,2024-04-06 EduGorilla Publication is a trusted name in the education sector committed to empowering learners with high quality study materials and resources Specializing in competitive exams and academic support EduGorilla provides comprehensive and well structured content tailored to meet the needs of students across various streams and levels **The Microcomputer**

Laboratory Manual Goody,1987-01-01 Lab Manual to Accompany Electronics for Computer Technology Ernest

Arney,2003 **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 **Lab Manual for Motorola MC68332** Harman,1991-08-01 Laboratory Manual

for Microelectronic Circuits Kenneth C. Smith,Adel S. Sedra,1991 This manual contains approximately 35 experiments It

follows the organization of the text and includes experiments for all major topics To help instructor s choose and prepare for the experiments this manual identifies the core experiments all students should perform and includes manufacturers data sheets for the most common components Industrial Electronics Paul Bernard Zbar,1962 **Laboratory Manual (MultiSIM Emphasis) to Accompany Electronic Devices and Circuit Theory** Robert L. Boylestad,Louis Nashelsky,2005-04 *Laboratory Manual for Introduction to Mixed-Signal, Embedded Design* Cypress Semiconductor Corporation,Dave van Ess,Edward H.. Currie,Alex N.. Doboli,2008 **Foundations of Electronics** Russell L. Meade,Robert Diffenderfer,2002-09 The Lab Manual for FOUNDATIONS OF ELECTRONICS CIRCUITS DEVICES 4th 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 **Lab Manual for Electronic Devices, Global Edition** THOMAS L. FLOYD,2018-06-19 This laboratory manual is carefully coordinated to the text Electronic Devices Tenth edition Global edition by Thomas L Floyd The seventeen experiments correspond to the chapters in the text except the first experiment references Chapters 1 and the first part of Chapter 2 All of the experiments are subdivided into two or three Parts With one exception Experiment 12 B the Parts for the all experiments are completely independent of each other The instructor can assign any or all Parts of these experiments and in any order This format provides flexibility depending on the schedule laboratory time available and course objectives In addition experiments 12 through 16 provide two options for experiments These five experiments are divided into two major sections identified as A or B The A experiments continue with the format of previous experiments they are constructed with discrete components on standard protoboards as used in most electronic teaching laboratories The A experiments can be assigned in programs where traditional devices are emphasized Each B experiment has a similar format to the corresponding A experiment but uses a programmable Analog Signal Processor ASP that is controlled by free Computer Aided Design CAD software from the Anadigm company www.anadigm.com These experiments support the Programmable Analog Design feature in the textbook The B experiments are also subdivided into independent Parts but Experiment 12 B Part 1 is a software tutorial and should be performed before any other B experiments This is an excellent way to introduce the ASP technology because no other hardware is required other than a computer running the downloaded software In addition to Experiment 12 B the first 13 steps of Experiment 15 B Part 2 are also tutorial in nature for the AnadigmFilter program This is an amazing active filter design tool that is easy to learn and is included with the AnadigmDesigner2 AD2 CAD software The ASP is part of a Programmable Analog Module PAM circuit board from the Servenger company www.servenger.com that interfaces to a personal computer The PAM is controlled by the AD2 CAD software from the Anadigm company website Except for Experiment 12 B Part 1 it is assumed that the PAM is connected to the PC and AnadigmDesigner2 is running Experiment 16 B Part 3 also requires a spreadsheet program such as Microsoft Excel The PAM is described in detail in the Quick Start Guide Appendix B Instructors may choose to mix A and B experiments

with no loss in continuity depending on course objectives and time We recommend that Experiment 12 B Part 1 be assigned if you want students to have an introduction to the ASP without requiring a hardware purchase A text feature is the Device Application DA at the end of most chapters All of the DAs have a related laboratory exercise using a similar circuit that is sometimes simplified to make laboratory time as efficient as possible The same text icon identifies the related DA exercise in the lab manual One issue is the trend of industry to smaller surface mount devices which are very difficult to work with and are not practical for most lab work For example almost all varactors are supplied as surface mount devices now In reviewing each experiment we have found components that can illustrate the device function with a traditional one The traditional through hole MV2109 varactor is listed as obsolete but will be available for the foreseeable future from Electronix Express www.elexp.com so it is called out in Experiment 3 All components are available from Electronix Express www.elexp.com as a kit of parts see list in Appendix A The format for each experiment has not changed from the last edition and is as follows

Introduction A brief discussion about the experiment and comments about each of the independent Parts that follow

Reading assignment in the Floyd text related to the experiment

Key Objectives A statement specific to each Part of the experiment of what the student should be able to do

Components Needed A list components and small items required for each Part but not including the equipment found at a typical lab station Particular care has been exercised to select materials that are readily available and reusable keeping cost at a minimum

Parts There are two or three independent parts to each experiment

Needed tables graphs and figures are positioned close to the first referenced location to avoid confusion

Step numbering starts fresh with each Part but figures and tables are numbered sequentially for the entire experiment to avoid multiple figures with the same number

Conclusion At the end of each Part space is provided for a written conclusion

Questions Each Part includes several questions that require the student to draw upon the laboratory work and check his or her understanding of the concepts

Troubleshooting questions are frequently presented

Multisim Simulation At the end of each A experiment except 1 one or more circuits are simulated in a Multisim computer simulation

New Multisim troubleshooting problems have been added to this edition Multisim troubleshooting files are identified with the suffix f1 f2 etc in the file name standing for fault1 fault2 etc Other files with nf as the suffix include demonstrations or practice using instruments such as the Bode Plotter and the Spectrum Analyzer A special icon is shown with all figures that are related to the Multisim simulation

Multisim files are found on the website www.pearsonglobaledition.com

Floyd Microsoft PowerPoint slides are available at no cost to instructors for all experiments The slides reinforce the experiments with troubleshooting questions and a related problem and are available on the instructor s resource site

Each laboratory station should contain a dual variable regulated power supply a function generator a multimeter and a dual channel oscilloscope A list of all required materials is given in Appendix A along with information on acquiring the PAM As mentioned components are also available as a kit from Electronix Express the kit number is 32DBEDFL10

Fundamentals of Digital Electronics George B.

Rutkowski, Jerome E. Oleksy, 1985 *Laboratory Manual for Electronic Devices and Circuits* David A. Bell, 2001 This lab manual accompanies Electronic Devices and Circuits 4 e Laboratory Manual For Electronic Devices And Circuits 4Th Ed.
Bell, *Laboratory Manual for Fundamentals of Electronics* John W. Sherman, Harold Rocklitz, 1960

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Table of Contents Ee2356 Microprocessor And Microcontroller Laboratory Manual

1. Understanding the eBook Ee2356 Microprocessor And Microcontroller Laboratory Manual
 - The Rise of Digital Reading Ee2356 Microprocessor And Microcontroller Laboratory Manual
 - Advantages of eBooks Over Traditional Books
2. Identifying Ee2356 Microprocessor And Microcontroller Laboratory Manual
 - Exploring Different Genres
 - Considering Fiction vs. Non-Fiction
 - Determining Your Reading Goals
3. Choosing the Right eBook Platform
 - Popular eBook Platforms
 - Features to Look for in an Ee2356 Microprocessor And Microcontroller Laboratory Manual
 - User-Friendly Interface
4. Exploring eBook Recommendations from Ee2356 Microprocessor And Microcontroller Laboratory Manual
 - Personalized Recommendations
 - Ee2356 Microprocessor And Microcontroller Laboratory Manual User Reviews and Ratings
 - Ee2356 Microprocessor And Microcontroller Laboratory Manual and Bestseller Lists
5. Accessing Ee2356 Microprocessor And Microcontroller Laboratory Manual Free and Paid eBooks
 - Ee2356 Microprocessor And Microcontroller Laboratory Manual Public Domain eBooks
 - Ee2356 Microprocessor And Microcontroller Laboratory Manual eBook Subscription Services

- Ee2356 Microprocessor And Microcontroller Laboratory Manual Budget-Friendly Options
- 6. Navigating Ee2356 Microprocessor And Microcontroller Laboratory Manual eBook Formats
 - ePub, PDF, MOBI, and More
 - Ee2356 Microprocessor And Microcontroller Laboratory Manual Compatibility with Devices
 - Ee2356 Microprocessor And Microcontroller Laboratory Manual Enhanced eBook Features
- 7. Enhancing Your Reading Experience
 - Adjustable Fonts and Text Sizes of Ee2356 Microprocessor And Microcontroller Laboratory Manual
 - Highlighting and Note-Taking Ee2356 Microprocessor And Microcontroller Laboratory Manual
 - Interactive Elements Ee2356 Microprocessor And Microcontroller Laboratory Manual
- 8. Staying Engaged with Ee2356 Microprocessor And Microcontroller Laboratory Manual
 - Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers Ee2356 Microprocessor And Microcontroller Laboratory Manual
- 9. Balancing eBooks and Physical Books Ee2356 Microprocessor And Microcontroller Laboratory Manual
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection Ee2356 Microprocessor And Microcontroller Laboratory Manual
- 10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
- 11. Cultivating a Reading Routine Ee2356 Microprocessor And Microcontroller Laboratory Manual
 - Setting Reading Goals Ee2356 Microprocessor And Microcontroller Laboratory Manual
 - Carving Out Dedicated Reading Time
- 12. Sourcing Reliable Information of Ee2356 Microprocessor And Microcontroller Laboratory Manual
 - Fact-Checking eBook Content of Ee2356 Microprocessor And Microcontroller Laboratory Manual
 - Distinguishing Credible Sources
- 13. Promoting Lifelong Learning
 - Utilizing eBooks for Skill Development
 - Exploring Educational eBooks
- 14. Embracing eBook Trends

- Integration of Multimedia Elements
- Interactive and Gamified eBooks

Ee2356 Microprocessor And Microcontroller Laboratory Manual Introduction

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