



JYOTHY INSTITUTE OF TECHNOLOGY

TATAGUNI, BENGALURU-560 082.

DEPARTMENT OF ELECTRONICS AND COMMUNICATION

SEMESTER VI

EMBEDDED CONTROLLER LABORATORY MANUAL (15ECL67)

[AS PER CHOICE BASED CREDIT SYSTEM (CBCS) SCHEME]

[EFFECTIVE FROM ACADEMIC YEAR 2015-16]

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VISION MISSION OF THE DEPARTMENT:

Vision:

To be a Department of excellence at a global level in Electronics and Communication Engineering education, incorporating Research & Innovation and Leadership training components.

Mission:

The Department will

M1: Strive to provide state of Art infrastructure in classrooms and Laboratories.

M2: Enable all-round development with individual attention and innovative teaching learning methodology.

M3: Impart leadership qualities into the students by exposing them to industry and research in global Electronics and Communication Engineering domain.

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VISION

To be an Institute of Excellence in Engineering education, Innovation and Research and work towards evolving great leaders for the country's future and meeting global needs.

MISSION

The Institute aims at Providing a vibrant, intellectually and emotionally rich teaching learning environment with the State of the Art infrastructure and recognizing and nurturing the potential of each individual to evolve into one's own self and contribute to the welfare of all.

PROGRAM EDUCATIONAL OBJECTIVES (PEOs):

PEO 1. (Domain Knowledge) Graduates of Electronics & Communication Engineering will be able to utilize mathematics, science, engineering fundamentals, theoretical as well as laboratory based experiences to identify, formulate & solve engineering problems and succeed in advanced engineering or other fields.

PEO 2. (Professional Employment) Graduates of Electronics & Communication Engineering will succeed in entry-level engineering positions in VLSI, Communication and Fabrication Industries in regional, national, or global industries.

PEO 3. (Engineering Citizenship) Graduates of Electronics & Communication Engineering will be prepared to communicate and work effectively on individual & team based engineering projects while practicing the ethics of their profession consistent with a sense of social responsibility.

PEO 4. (Lifelong Learning) Graduates of Electronics & Communication Engineering will be equipped to recognize the importance of, and have the skills for, continuous learning to become experts in their domain and enhance their professional attributes.

Adc 6th Sem Ece Lab Manual

**University of Tennessee, Knoxville.
Department of Electrical and
Computer Engineering. Electro-optics
Laboratory**

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Who's who in America, 1944 **Autocar**, 1999 **Experiments in Analog and Digital Electronics** Thomas E. Brewer, 2004-07-09 **ECE 311 and ECE 316 Lab Manual** Wayne M. Hope, 1999 ECE 2031 Tyson Hall-Twigg, 2004-01-01 *Laboratory Manual ECE 3111 Electronics* Florida Institute of Technology. Division of Electrical and Computer Science and Engineering, 1996 *A Laboratory Manual for ECE 489 and ECE 499* University of Tennessee, Knoxville. Department of Electrical and Computer Engineering. Electro-optics Laboratory, 1988 Experiments in Analog & Digital Electronics Georgia Institute of Technology Staff, Thomas E. Brewer, 2000-01 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 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

Experiments in Analog and Digital Electronics Thomas Brewer,1997-01-01

Digital Electronics Lab Manual Abraham Michelen,2000 Accompanying CD ROM includes Electronics Workbench circuits for the experiments in the manual

Laboratory Manual (MultiSIM Emphasis) to

Accompany Electronic Devices and Circuit Theory Robert L. Boylestad, Louis Nashelsky, 2005-04 Experiments in Analog
And digital Electronics Brewer, 1998-01-01 **Lab Manual for Meade's Foundations of Electronics, 5th** Russell
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 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 Communications**
 Jeffrey S. Beasley, Mark E. Oliver, Jonathan D. Hymer, David Shores, Gary M. Miller, 2013-06-24 This is a student supplement
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 0132988631 Lab Manual to Accompany Electronics for Computer Technology Ernest Arney, 2003 **Lab Manual to**
Accompany Digital Electronics James Bignell, 2000 Basic Electronics Lab Manual Energy Concepts, Inc, 1976
Electronics Lab Manual Jawdat kasassbeh, 2013 **Lab Manual EE266** Francesco Palmieri, 1993-01-01

The book delves into Adc 6th Sem Ece Lab Manual. Adc 6th Sem Ece Lab Manual is a crucial topic that needs to be grasped by everyone, ranging from students and scholars to the general public. This book will furnish comprehensive and in-depth insights into Adc 6th Sem Ece Lab Manual, encompassing both the fundamentals and more intricate discussions.

1. This book is structured into several chapters, namely:

- Chapter 1: Introduction to Adc 6th Sem Ece Lab Manual
- Chapter 2: Essential Elements of Adc 6th Sem Ece Lab Manual
- Chapter 3: Adc 6th Sem Ece Lab Manual in Everyday Life
- Chapter 4: Adc 6th Sem Ece Lab Manual in Specific Contexts
- Chapter 5: Conclusion

2. In chapter 1, the author will provide an overview of Adc 6th Sem Ece Lab Manual. The first chapter will explore what Adc 6th Sem Ece Lab Manual is, why Adc 6th Sem Ece Lab Manual is vital, and how to effectively learn about Adc 6th Sem Ece Lab Manual.
3. In chapter 2, the author will delve into the foundational concepts of Adc 6th Sem Ece Lab Manual. This chapter will elucidate the essential principles that need to be understood to grasp Adc 6th Sem Ece Lab Manual in its entirety.
4. In chapter 3, the author will examine the practical applications of Adc 6th Sem Ece Lab Manual in daily life. The third chapter will showcase real-world examples of how Adc 6th Sem Ece Lab Manual can be effectively utilized in everyday scenarios.
5. In chapter 4, the author will scrutinize the relevance of Adc 6th Sem Ece Lab Manual in specific contexts. This chapter will explore how Adc 6th Sem Ece Lab Manual is applied in specialized fields, such as education, business, and technology.
6. In chapter 5, this book will draw a conclusion about Adc 6th Sem Ece Lab Manual. The final chapter will summarize the key points that have been discussed throughout the book.

The book is crafted in an easy-to-understand language and is complemented by engaging illustrations. It is highly recommended for anyone seeking to gain a comprehensive understanding of Adc 6th Sem Ece Lab Manual.

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Adc 6th Sem Ece Lab Manual Introduction

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