EE3404 **MICROPROCESSOR AND MICROCONTROLLER** **LT P C**
3 0 0 3

COURSE OBJECTIVES:
- To study the addressing modes & instruction set of 8085 &8051
- To develop skills in simple program writing in assembly languages
- To introduce commonly used peripheral/interfacing ICs.
- To study and understand typical applications of micro-processors.
- To study and understand the typical applications of micro-controllers

UNIT I **INTRODUCTION TO 8085 ARCHITECTURE** **9**
Functional block diagram — Memory interfacing—I/O ports and data transfer concepts — Timing Diagram — Interrupt structure.

UNIT II **8085 INSTRUCTION SET AND PROGRAMMING** **9**
Instruction format and addressing modes — Assembly language format — Data transfer, data manipulation & control instructions — Programming: Loop structure with counting & Indexing - Look up table - Subroutine instructions, stack.

UNIT III **INTERFACING BASICS AND ICS** **9**
Study of Architecture and programming of ICs: 8255 PPI, 8259PIC, 8251USART, 8279 Keyboard display controller and 8254 Timer/Counter — Interfacing with 8085 -A/D and D/A converter interfacing.

UNIT IV **INTRODUCTION TO 8051 MICROCONTROLLER** **9**
Functional block diagram - Instruction format and addressing modes — Interrupt structure — Timer — I/O ports — Serial communication, Simple programming —keyboard and display interface — Temperature control system —stepper motor control - Usage of IDE for assembly language programming.

UNIT V **INTRODUCTION TO RISC BASED ARCHITECTURE** **9**
PIC16 /18 architecture, Memory organization — Addressing modes — Instruction set - Programming techniques — Timers — I/O ports — Interrupt programming.

TOTAL: 45 PERIODS

COURSE OUTCOMES:
Upon successful completion of the course, the students should have the:
CO1: Ability to write assembly language program for microprocessor and microcontroller
CO2: Ability to design and implement interfacing of peripheral with microprocessor and microcontroller
CO3: Ability to analyze, comprehend, design and simulate microprocessor based systems used for control and monitoring.
CO4: Ability to analyze, comprehend, design and simulate microcontroller based systems used for control and monitoring.
CO5: Ability to understand and appreciate advanced architecture evolving microprocessor field

TEXTBOOKS:
1. Ramesh S. Gaonkar, 'Microprocessor Architecture Programming and Application', Pen ram International (P)ltd., Mumbai, 6th Education, 2013.
2. Muhammad Ali Mazidi & Janice Gilli Mazidi, 'The 8051 Micro Controller and Embedded Systems', Pearson Education, Second Edition 2011.
3. Muhammad Ali Mazidi & Janice Gilli Mazidi, 'The PIC Micro Controller and Embedded Systems', 2010

REFERENCES:
1. Douglas V. Hall, "Micro-processors & Interfacing", Tata McGraw Hill 3rd Edition, 2017.
2. Krishna Kant, "Micro-processors & Micro-controllers", Prentice Hall of India, 2007.
3. Mike Predko, "8051 Micro-controllers", McGraw Hill, 2009
4. Kenneth Ayala, 'The 8051 Microcontroller', Thomson, 3rd Edition 2004.

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Microprocessors and Microcontrollers Atul P. Godse,Dr. Deepali A. Godse,2020-12-01 The book is written for an undergraduate course on the 8085 microprocessor and 8051 microcontroller It provides comprehensive coverage of the hardware and software aspects of 8085 microprocessor and 8051 microcontroller The book is divided into two parts The first part focuses on 8085 microprocessor It teaches you the 8085 architecture instruction set Assembly Language Programming ALP interfacing 8085 with support chips memory and peripheral ICs 8251 8253 8255 8259 8237 and 8279 It also explains the interfacing of 8085 with data converters ADC and DAC and introduces a temperature control system and data acquisition system design The second part focuses on 8051 microcontroller It teaches you the 8051 architecture instruction set programming 8051 with ALP and C and interfacing 8051 with external memory It also explains timers counters serial port and interrupts of 8051 and their programming in ALP and C It also covers the interfacing 8051 with data converters ADC and DAC keyboards LCDs LEDs stepper motors servo motors and introduces the washing machine control system design

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Computer Aided Engineering American Society for Engineering Education. Conference,1985 **Microprocessor and Microcontroller Interview Questions:** Anita Gehlot Rajesh Singh,2020-01-01 Crack the Microprocessor and Microcontroller Interview Description Book gives you a complete idea about the Microcontroller and Microprocessor It starts from a very basic concept like a number system then explains the digital circuit This book is a complete set of interview questions and answers with plenty of screenshots Book takes you on a journey to Microprocessor 8085 Peripheral Devices and Interfacing AVR ATmega32 Interfacing of Input Output Device Book also covers the descriptive questions multiple choice questions along with answers which are asked during an interview Key features An ample number of diagrams are used to illustrate the subject matter for easy understanding Set of review questions with answers are added at the end for better understanding Includes basic to advanced interview questions on 8085 8086 89C51 PIC and AVR interfacing of input output devices It will help to enhance the programming skills of the reader What will you learn Basics to an advanced interview question for microprocessor 8085 8086 and microcontroller 89C51 PIC and AVR Question on interfacing of input output devices Who this book is for Engineering students pursuing a course in electrical and electronics electronics and communication computer science and information technology who wish to learn about Microprocessor Microcontroller and crack an interview Table of Contents 1 Number Systems 2 Digital Circuit 3 Microprocessor 8085 4 Peripheral Devices and Interfacing 5 AVR ATmega32 6 Interfacing of Input Output Device 7 Excercise 8 Descriptive Type Questions 9 Multiple

Choice Questions   Proceedings American Society for Engineering Education,1988   *Proceedings* American Society for Engineering Education. Conference,1988   **Modeling and Simulation** ,1990   *PESC '90 Record* ,1990   **Freshwater and Marine Aquarium** ,1993   **Computer & Control Abstracts** ,1996   The Quintessential PIC® Microcontroller Sid Katzen,2007-07-05 Written specifically for readers with no prior knowledge of computing electronics or logic design Uses real world hardware and software products to illustrate the material and includes numerous fully worked examples and self assessment questions   **The Essential PIC18® Microcontroller** Sid Katzen,2010-06-18 Microprocessors are the key component of the infrastructure of our 21st century electronic and digital information based society More than four billion are sold each year for use in intelligent electronic devices ranging from smart egg timer through to aircraft management systems Most of these processor devices appear in the form of highly integrated microcontrollers which comprize a core microprocessor together with memory and analog digital peripheral ports By using simple cores these single chip computers are the cost and size effective means of adding the brains to previous dumb widgets such as the credit card Using the same winning format as the successful Springer guide The Quintessential PIC Microcontroller this down to earth new textbook guide has been completely rewritten based on the more powerful PIC18 enhanced range Microchip MCU family Throughout the book commercial hardware and software products are used to illustrate the material as readers are provided real world in depth guidance on the design construction and programming of small embedded microcontroller based systems Suitable for stand alone usage the text does not require a prerequisite deep understanding of digital systems Topics and features uses an in depth bottom up approach to the topic of microcontroller design using the Microchip enhanced range PIC18 microcontroller family as the exemplar includes fully worked examples and self assessment questions with additional support material available on an associated website provides a standalone module on foundation topics in digital logic and computer architecture for microcontroller engineering discusses the hardware aspects of interfacing and interrupt handling with an emphasis on the integration of hardware and software covers parallel and serial input output timing analog and EEPROM data handling techniques presents a practical build and program case study as well as illustrating simple testing strategies This useful text reference book will be of great value to industrial engineers hobbyists and people in academia Students of Electronic Engineering and Computer Science at both undergraduate and postgraduate level will also find this an ideal textbook with many helpful learning tools Dr Sid Katzen is Associate to the School of Engineering University of Ulster at Jordanstown Northern Ireland   **Digital Electronics & Microprocessor** Sachan,2019-09-08 In recent years Digital Electronics Microprocessor is being used extensively in computers microprocessor and very large scale integration VLSI design and digital signal processing research and many other things This rapid progress in Electronics Engineering has created an increasing demand for trained Digital System Designs personnel This book is intended for the undergraduate and postgraduate students specializing in Electronics Engineering Computer Science Engineering and Information Technology It

will also serve as reference material for engineers employed in industry The fundamental concepts and principles behind Digital Electronics Microprocessor are explained in a simple easy to understand manner Each chapter contains a large number of solved example or problem which will help the students in problem solving and designing of Electronics system This text book is organized into Thirteen chapters Chapter 1 Number Systems and Boolean Algebra Chapter 2 Combinational Circuits Chapter 3 Sequential Circuits Chapter 4 Digital Logic FamiliesChapter 5 Memory Programmable Logic Chapter 6 Asynchronous Sequential Logic Chapter 7 Digital System Design Using Hardware Chapter 8 Digital System Design Using VHDL Chapter 9 Design of Fast Adder Chapter 10 Design of Fast MultiplierChapter 11 Basics of MicroprocessorChapter 12 Programing of MicroprocessorChapter 13 Micro Controller Its Applications The book Digital Electronics Microprocessor is written to cater to the needs of the undergraduate courses in the discipline of Electronics Communication Engineering Computer Science Engineering Information Technology Electronics Instrumentation Engineering Electrical Electronics Engineering and postgraduate students specializing in Electronics It will also serve as reference material for engineers employed in industry The fundamental concepts and principles behind Digital Electronics Microprocessor are explained in a simple easy to understand manner Digital Electronics Microprocessor also gives the possible experiments of digital logic design using VHDL and Hardware that can be done by students of B E B Tech M Tech and Ph D level Salient Features Detailed coverage of Number Systems and Boolean Algebra Combinational Circuits and Sequential Circuits Comprehensive chapters on Digital Logic Families Memory Programmable Logic and Asynchronous Sequential Logic Detailed coverage of Digital System Design Using Hardware Digital System Design Using VHDL Design of Fast Adder and Design of Fast Multiplier Comprehensive chapters on Basics of Microprocessor Programing of Microprocessor Microcontroller and Its Application Each chapter contains a large number of solved example or objective type s problem which will help the students in problem solving and designing of digital system Clear perception of the various problems with a large number of neat well drawn and illustrative diagrams Simple Language easy to understand manner I do hope that the text book in the present form will meet the requirement of the students doing graduation in Electronics Communication Engineering Computer Science Engineering Information Technology Electronics Instrumentation Engineering and Electrical Electronics Engineering I shall appreciate any suggestions from students and faculty members alike so that we can strive to make the text book more useful in the edition to come   **The Quintessential PIC(R) Microcontroller** Sid Katzen,2014-01-15   **Introduction to Microprocessors and Microcontrollers** John Crisp,2003-11-13 Assuming only a general science education this book introduces the workings of the microprocessor its applications and programming in assembler and high level languages such as C and Java Practical work and knowledge check questions contribute to building a thorough understanding with a practical focus The book concludes with a step by step walk through a project based on the PIC microcontroller The concise but clearly written text makes this an ideal book for electronics and IT students and a wide range of technicians and

engineers including IT systems support staff and maintenance service engineers Crisp s conversational style introduces the fundamentals of the micro microprocessors microcontrollers systems on a chip in a way that is utterly painless but technically spot on the talent of a true teacher Microprocessors and microcontrollers are covered in one book reflecting the importance of embedded systems in today s computerised world Practical work and knowledge check questions support a lively text to build a firm understanding of the subject   MICROPROCESSORS AND MICROCONTROLLERS MATHUR, SUNIL,PANDA, JEEBANANDA ,2016-08 Primarily intended for diploma undergraduate and postgraduate students of electronics electrical mechanical information technology and computer engineering this book offers an introduction to microprocessors and microcontrollers The book is designed to explain basic concepts underlying programmable devices and their interfacing It provides complete knowledge of the Intel s 8085 and 8086 microprocessors and 8051 microcontroller their architecture programming and concepts of interfacing of memory IO devices and programmable chips The text has been organized in such a manner that a student can understand and get well acquainted with the subject independent of other reference books and Internet sources It is of greater use even for the AMIE and IETE students those who do not have the facility of classroom teaching and laboratory practice The book presents an integrated treatment of the hardware and software aspects of the 8085 and 8086 microprocessors and 8051 microcontroller Elaborated programming solved examples on typical interfacing problems and a useful set of exercise problems in each chapter serve as distinguishing features of the book   **Microprocessor And Microcontroller-2nd Edn** R. Theagarajan,2004 The book is aimed at providing the students a detailed knowledge of programming of Intel 8086 Microcontroller Intel 8051 and interfacing of peripheral devices It is intended for students of Computer Electrical Electronics and Instrumentation engineering as well as for working professionals who wish to acquire knowledge in this area Apart from providing the necessary theoretical details programming examples are also included for most of the topics This book will help the reader to design his own microprocessor microcontroller based solutions for practical problems   **Microcontroller Theory and Applications with the PIC18F** M. Rafiquzzaman,2018-01-02 A thorough revision that provides a clear understanding of the basic principles of microcontrollers using C programming and PIC18F assembly language This book presents the fundamental concepts of assembly language programming and interfacing techniques associated with typical microcontrollers As part of the second edition s revisions PIC18F assembly language and C programming are provided in separate sections so that these topics can be covered independent of each other if desired This extensively updated edition includes a number of fundamental topics Characteristics and principles common to typical microcontrollers are emphasized Interfacing techniques associated with a basic microcontroller such as the PIC18F are demonstrated from chip level via examples using the simplest possible devices such as switches LEDs Seven Segment displays and the hexadecimal keyboard In addition interfacing the PIC18F with other devices such as LCD displays ADC and DAC is also included Furthermore topics such as CCP Capture Compare PWM and

Serial I O using C along with simple examples are also provided Microcontroller Theory and Applications with the PIC18F 2nd Edition is a comprehensive and self contained book that emphasizes characteristics and principles common to typical microcontrollers In addition the text Includes increased coverage of C language programming with the PIC18F I O and interfacing techniques Provides a more detailed explanation of PIC18F timers PWM and Serial I O using C Illustrates C interfacing techniques through the use of numerous examples most of which have been implemented successfully in the laboratory This new edition of Microcontroller Theory and Applications with the PIC18F is excellent as a text for undergraduate level students of electrical computer engineering and computer science

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