

**SHREE RAMCHANDRA
COLLEGE OF ENGINEERING**

LAB MANUAL

S.E. Computer Semester- IV

Dec 2015 –Apr 2016

**Subject Code / Subject
(210248)**

**MICROPROCESSOR INTERFACING
LABORATORY**

**Course / Branch
Computer Engineering
(2012 course)**

Teaching Scheme
Lectures: 3Hrs/Week
Practical: 4Hrs/Week
Term Work: 50 Marks

Examination Scheme
Theory: 50 Marks
Online: 50 Marks

Microprocessor Interfacing Techniques Lab Manual

R.R. Bowker Company



Microprocessor Interfacing Techniques Lab Manual:

A Guide to Undergraduate Science Course and Laboratory Improvements National Science Foundation (U.S.). Directorate for Science Education, 1979 **Practical Microprocessor Interfacing** S. A. Money, 1987-11-02 This book looks at effective techniques for interfacing between the microprocessor and external peripheral equipment Offering a balanced treatment of both hardware and software applications it begins by discussing the structure and timing of signals on microprocessor bus systems and the memory devices used to store and retrieve data Goes on to provide practical coverage of the parallel interface its underlying principles and techniques of implementation including how to handle both dedicated and memory mapped input output systems programmable I O port devices and some specially designed parallel interface chips Provides examples of typical applications of I O ports including the connection of switches and keyboards the drive circuits of lamps and relays and driving stepper type monitors Also discussed are two standard parallel interface schemes which are commonly used with microcomputer systems Other topics cover the basics of synchronous and asynchronous serial transmission the advantage of external hardware in implementing counting and timing functions interfacing digital and analogue converters to the CPU bus system and effective ways of checking the input lines Bowker's Complete Sourcebook of Personal Computing, 1985 R.R. Bowker Company, 1984 Provides Listings of Hardware Software Peripherals Currently Available as Well as Books Magazines Clubs User Groups Virtually All Other Microcomputer related Services Includes Background Information Glossary **Subject Guide to Books in Print**, 1997 **Robotics, CAD/CAM Market Place, 1985**, 1985 *Computer Books and Serials in Print*, 1985 *Introductory Circuit Analysis* Robert L. Boylestad, 1990-02 *Digital Experiments* David Buchla, 1990 *16/32 Bit Microprocessors* Wunnava V. Subbarao, 1991 An integrated practical introduction to 16 bit and 32 bit microprocessors using the Motorola 68000 family as examples for electronics engineering computer science and technology students **An Introduction to Microcomputer Systems** John Fulcher, 1989 This book provides a thoroughly modern and up to date introduction to microcomputer interfacing as well as a general introduction to the fundamental of microcomputer architecture *Digital Experiments Emphasizing Troubleshooting* Jerry V. Cox, 1990 **Semiconductor Devices**, 1983 Annual Conference Proceedings American Society for Engineering Education. Conference, 1993 **Proceedings** American Society for Engineering Education. Conference, 1993 *The National Guide to Educational Credit for Training Programs* American Council on Education, 2005 Highlights over 6 000 educational programs offered by business labor unions schools training suppliers professional and voluntary associations and government agencies **Canadiana**, 1989-07 **Digital Fundamentals** Thomas L. Floyd, 1990 Systems Troubleshooting Handbook Lucus M. Faulkenberry, 1986 Reparation og vedligehold af forskellige elektroniske systemer stereoanl g micro datamater robotter analoge og digitale systemer *Solid State Technology*, 1977 **British Universities' Guide to Graduate Study**, 1993

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