

## **IC APPLICATIONS LAB III ECE (I SEM) – R09**

### **LIST OF EXPERIMENTS (As per JNTU Syllabus)**

#### **PART-I**

1. Adder, Subtractor ,Comparator using IC 741 op-amp
2. Integrator and Differentiator using IC 741 op-amp
3. Active Filters – LPF, HPF(Butterworth second order)
4. RC phase shift ,Wein Bridge Oscillators using IC 741 op-amp
5. IC 555 Timer in Monostable Operation
6. Schmitt trigger Circuits using IC 741 and IC 555
7. IC 565 –PLL Applications
8. Voltage regulator using IC 723,three terminal voltage regulators-7805,7809,7912
9. Sample and Hold LF 398 IC

#### **PART II**

1. D- Flip Flop(74LS74)and JK Master Slave Flip Flop (74LS73)
2. Decade Counter (74LS90)and UP-Down Counter (74LS192)
3. Universal Shift Register(74LS194/195)
4. 3-8 Decoder (74LS138)
5. 4-bit Comparator(74LS85)
6. 8×1 Multiplexer(74151) and 2×4 Demux(74155)
7. RAM (16×4)-74189(read and write operations)
8. Stack and Queue implementation using RAM,74189

# Ic Lab Manual

**Frank R. Dungan**



## **Ic Lab Manual:**

Integrated Circuits Laboratory Manual California. University. Integrated Circuits Laboratory, University of California, Berkeley. Integrated Circuits Laboratory, 1966      **Digital Logic I.C. Lab Manual** Gary E. Jones, 1978\*      Laboratory Manual for Introductory Electronics Experiments L. K. Maheshwari, M. M. S. Anand, 1979      *ELECTRONICS LAB MANUAL (VOLUME 2)* NAVAS, K. A., 2018-10-01 This book is evolved from the experience of the author who taught all lab courses in his three decades of teaching in various universities in India The objective of this lab manual is to provide information to undergraduate students to practice experiments in electronics laboratories This book covers 118 experiments for linear analog integrated circuits lab communication engineering lab power electronics lab microwave lab and optical communication lab The experiments described in this book enable the students to learn Various analog integrated circuits and their functions Analog and digital communication techniques Power electronics circuits and their functions Microwave equipment and components Optical communication devices This book is intended for the B Tech students of Electronics and Communication Engineering Electrical and Electronics Engineering Biomedical Electronics Instrumentation and Control Computer Science and Applied Electronics It is designed not only for engineering students but can also be used by BSc MSc Physics and Diploma students **KEY FEATURES** Contains aim components and equipment required theory circuit diagram pin outs of active devices design tables graphs alternate circuits and troubleshooting techniques for each experiment Includes viva voce and examination questions with their answers Provides exposure on various devices **TARGET AUDIENCE** B Tech Electronics and Communication Engineering Electrical and Electronics Engineering Biomedical Electronics Instrumentation and Control Computer Science and Applied Electronics BSc MSc Physics Diploma Engineering      **Laboratory Manual for Anatomy and Physiology** Connie Allen, Valerie Harper, 2020-12-10 Laboratory Manual for Anatomy Physiology 7th Edition contains dynamic and applied activities and experiments that help students both visualize anatomical structures and understand complex physiological topics Lab exercises are designed in a way that requires students to first apply information they learned and then critically evaluate it With many different format options available and powerful digital resources it is easy to customize this laboratory manual to best fit your course While the Laboratory Manual for Anatomy and Physiology is designed to complement the latest 16th edition of Principles of Anatomy Physiology it can be used with any two semester A P text      Integrated Circuit Laboratory Manual Jack P. Moore, 1968      Manual of English Pronunciation and Spelling: Containing a Full Alphabetical Vocabulary of the Language, with a Preliminary Exposition of English Orthoëpy and Orthography Richard Soule, William Adolphus Wheeler, 1882      **Digital Electronics and Laboratory Computer Experiments** Charles Wilkins, 2012-12-06 Science undergraduates have come to accept the use of computers as commonplace The daily use of portable sophisticated electronic calculators some of them rivaling general purpose minicomputers in their capabilities has hastened this development Over the past several years computer assisted

experimentation has assumed an important role in the experimental laboratory Mini and microcomputer systems have become an important part of the physical scientist's array of analytical instruments Prompted by our belief that this was an inevitable development we began several years ago to develop the curricular materials presented in this manual At the outset several objectives seemed important to us First insofar as possible the experiments included should be thoroughly tested and error free Second they should be compatible with a variety of laboratory computer data acquisition and control systems Third little or no previous background in either electronics or programming should be necessary Of course such background would be advantageous To satisfy these objectives we decided to adopt a widespread high level computer language BASIC suitably modified for the purpose Furthermore we have purposely avoided specifying any particular system or equipment Rather the functional characteristics of both hardware and software required are stipulated The experiments have been developed using Varian 620 and Hewlett Packard 2100 series computers but we believe they are readily transferable to other commonly available computer systems with a minimum of difficulty

*Lab Manual to Accompany Op-amps and Linear Integrated Circuits, Fourth Edition* Ramakant A. Gayakwad, 2000     **Laboratory Manual of Qualitative Analysis** Wilhelm Segerblom, 1908     **Lab Manual to Accompany Op-Amps and Linear Integrated Circuits** Ramakant A. Gayakwad, 1999-08-01 This lab manual accompanies Gayakwad's *Op Amps and Linear Integrated Circuits*     The United States Catalog Mary Burnham, Carol Hurd, 1928     **Baker University Catalog** Baker University, 1905     Industrial Electronics: A Text-lab Manual Paul B. Zbar, 1972     *Monolayers and Thin Multilayers of Phospholipids* Michael Seul, 1985     **A Laboratory Manual of Anthropometry** Harris Hawthorne Wilder, 1920     Op Amps and Linear Integrated Circuits for Technicians Frank R. Dungan, 1992     **The United States Catalog**, 1924     The Bookseller, Newsdealer and Stationer, 1899     Logic Design Projects Using Standard Integrated Circuits John F. Wakerly, 1976

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