

23EC28ES209: ELECTRONIC DEVICES AND CIRCUITS LABORATORY**B.Tech. I Year II Sem.**

L	T	P	C
0	0	2	1

Course Outcomes: Students will be able to

1. Acquire the knowledge of various semiconductor devices and their use in real life.
2. Design aspects of biasing and keep them in active region of the device for functional circuits.
3. Acquire the knowledge about the role of special purpose devices and their applications.

Course	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
CO1	1	-	2	-	3	-	-	3	3	-	-	1
CO2	1	-	2	-	3	-	-	3	3	-	-	1
CO3	1	-	2	-	3	-	-	3	3	-	-	1

List of Experiments (Twelve experiments to be done):

Verify any twelve experiments in H/W Laboratory

1. PN Junction diode characteristics A) Forward bias B) Reverse bias.
2. Full Wave Rectifier with & without filters
3. Types of Clippers at different reference voltages
4. Types of Clampers at different reference voltages
5. The steady state output waveform of clampers for a square wave input
6. Input and output characteristics of BJT in CE Configuration
7. Input and output characteristics of MOS FET in CS Configuration
8. Input and output characteristics of JFET in CD Configuration
9. Switching characteristics of a transistor
10. Zener diode characteristics and Zener as voltage Regulator
11. UJT Characteristics and identify negative region
12. Photo diode characteristics
13. Solar cell characteristics
14. LED Characteristics
*Design a circuit to switch on and off LED using diode/BJT/FET as a switch.

Major Equipment required for Laboratories:

1. Regulated Power Suppliers, 0-30V
2. 20 MHz, Dual Channel Cathode Ray Oscilloscopes.
3. Functions Generators-Sine and Square wave signals
4. Multimeters, voltmeters and Ammeters
5. Electronic Components and devices

Lab Manual Edc

Xiaolong Qi



Lab Manual Edc:

A Laboratory manual and text-book of embryology Charles William Prentiss,1915 **Laboratory Manual for Electronic Devices and Circuits** David A. Bell,2001 This lab manual accompanies Electronic Devices and Circuits 4 e A Laboratory Manual in Practical Botany Charles Herbert Clark,1898 **Electronics Laboratory Manual** Ralph Ross Wright,1945 **Student Laboratory Manual for Physical Examination and Health Assessment** Carolyn Jarvis,2003 High technology cannot replace the bedside assessment of the patient by the physician argues Jarvis a family nurse practitioner with Chestnut Health Systems She presents the new edition of her textbook explaining health history taking methods physical examination skills health promotion techniques and clinical assessment tools The edition adds chapters on domestic violence assessment pain assessment and the development of critical thinking skills The CD ROM contains case studies video demonstrations and printable patient health promotion guides Annotation c 2003 Book News Inc Portland OR booknews com *Integrated Science Laboratory Manual* Michael J. Padilla,2000 Includes 74 investigations pre lab discussions and critical thinking questions safety manual and student safety test teaching support District Laboratory Practice in Tropical Countries, Part 1 Monica Cheesbrough,2005-09-08 Changes in the organization of health services in developing countries have led to district levels assuming more responsibility for the planning delivery and quality of community health care This fully up dated new edition has been produced to help those working in the district laboratory and those responsible for the organization and management of community laboratory services and the training of district laboratory personnel Replacing the previous publication Medical Laboratory Manual for Tropical Countries this book provides an up to date practical bench manual taking a modern approach to the provision of a quality medical laboratory service **Soil Resources and Land Use Planning** R. Pennock,1983 **1970 National Science Foundation Authorization** United States. Congress. House. Committee on Science and Astronautics. Subcommittee on Science, Research, and Development,1969 **Hearings** United States. Congress. House. Committee on Science and Astronautics,1969 **1970 National Science Foundation Authorization, Hearings Before the Subcommittee on Science, Reserach, and Development...** United States. Congress. House Science and Astronautics,1969 **Integrated Disease Surveillance and Response** ,2004 *Research in Education* ,1969 Big Book of Home Learning Mary Pride,1991-07 Learn at home with exciting products for all school subjects New *Official Manual of the State of Missouri* ,1905 *Planning the Use of the Earth's Surface* Antonio Cendrero,Gerd Lüttig,1992 The purpose of this book is to analyse and discuss a series of topics related with environmental conservation land use planning and management and impact prevention as seen from the perspective of the Earth Sciences but with an inte grated interdisciplinary approach The contributions included in the book intend to give an overview of existing problems and trends and to point out certain lines along which work and or actions will be par ticularly needed in the near future In short they intend to show where we stand

now with regard to those problems and in what direction we should move Readers will find particularly useful the brief presentation of a variety of important environmental earth science topics the description of the present state of the art and the suggestions for methodological approaches to solve different problems as well as the guidelines for action presented throughout the book

Physical Experiments John Francis Woodhull, May Belle Van Arsdale, 1900

Chemists' Guide to Effective Teaching Norbert J. Pienta, Melanie M. Cooper, Thomas J. Greenbowe, 2005 Part of the Prentice Hall Series in Educational Innovation for Chemistry this unique book is a collection of information examples and references on learning theory teaching methods and pedagogical issues related to teaching chemistry to college students In the last several years there has been considerable activity and research in chemical education and the materials in this book integrate the latest developments in chemistry Each chapter is written by a chemist who has some expertise in the specific technique discussed has done some research on the technique and has applied the technique in a chemistry course

Electromyography and Clinical Neurophysiology, 1982 Includes official journal of the International Society of Electromyographic Kinesiology

African Regional Seminar for Advanced Training in Systematic Curriculum Development and Evaluation, Achimota, Ghana, 14 July-15 August, 1975, 1979

Lab Manual Edc Book Review: Unveiling the Magic of Language

In an electronic digital era where connections and knowledge reign supreme, the enchanting power of language has become more apparent than ever. Its power to stir emotions, provoke thought, and instigate transformation is actually remarkable. This extraordinary book, aptly titled "**Lab Manual Edc**," compiled by a highly acclaimed author, immerses readers in a captivating exploration of the significance of language and its profound effect on our existence. Throughout this critique, we shall delve into the book's central themes, evaluate its unique writing style, and assess its overall influence on its readership.

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