



Science Lab Manual



Strictly According to New CBSE Syllabus

Class IX

Vk Publication Lab Manual

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Vk Publication Lab Manual:

Lab Manual Latest Edition Dr. J. P. Goel, 2016-12-17 Lab E Manual Physics For XIIth Practicals A Every student will perform 10 experiments 5 from each section 8 activities 4 from each section during the academic year Two demonstration experiments must be performed by the teacher with participation of students The students will maintain a record of these demonstration experiments B Evaluation Scheme for Practical Examination One experiment from any one section 8 Marks Two activities one from each section 4 4 8 Marks Practical record experiments activities 6 Marks Record of demonstration experiments Viva based on these experiments 3 Marks Viva on experiments activities 5 Marks Total 30 Marks Section A Experiments 1 To determine resistance per cm of a given wire by plotting a graph of potential difference versus current 2 To find resistance of a given wire using metre bridge and hence determine the specific resistance of its material 3 To verify the laws of combination series parallel of resistances using a metre bridge 4 To compare the emf of two given primary cells using potentiometer 5 To determine the internal resistance of given primary cells using potentiometer 6 To determine resistance of a galvanometer by half deflection method and to find its figure of merit 7 To convert the given galvanometer of known resistance and figure of merit into an ammeter and voltmeter of desired range and to verify the same 8 To find the frequency of the a c mains with a sonometer Activities 1 To measure the resistance and impedance of an inductor with or without iron core 2 To measure resistance voltage AC DC current AC and check continuity of a given circuit using multimeter 3 To assemble a household circuit comprising three bulbs three on off switches a fuse and a power source 4 To assemble the components of a given electrical circuit 5 To study the variation in potential drop with length of a wire for a steady current 6 To draw the diagram of a given open circuit comprising at least a battery resistor rheostat key ammeter and voltmeter Mark the components that are not connected in proper order and correct the circuit and also the circuit diagram Section B Experiments 1 To find the value of v for different values of u in case of a concave mirror and to find the focal length 2 To find the focal length of a convex lens by plotting graphs between u and v or between $1/u$ and $1/v$ 3 To find the focal length of a convex mirror using a convex lens 4 To find the focal length of a concave lens using a convex lens 5 To determine angle of minimum deviation for a given prism by plotting a graph between angle of incidence and angle of deviation 6 To determine refractive index of a glass slab using a travelling microscope 7 To find refractive index of a liquid by using i concave mirror ii convex lens and plane mirror 8 To draw the I V characteristic curve of a p n junction in forward bias and reverse bias 9 To draw the characteristic curve of a zener diode and to determine its reverse break down voltage 10 To study the characteristics of a common emitter npn or pnp transistor and to find out the values of current and voltage gains Activitie 1 To study effect of intensity of light by varying distance of the source on a L D R 2 To identify a diode a LED a transistor and IC a resistor and a capacitor from mixed collection of such items 3 Use of multimeter to i identify base of transistor ii distinguish between npn and pnp type transistors iii see the unidirectional flow of current in case of a diode and a LED iv

check whether a given electronic component e.g. diode transistor or IC is in working order 4 To observe refraction and lateral deviation of a beam of light incident obliquely on a glass slab 5 To observe polarization of light using two Polaroids 6 To observe diffraction of light due to a thin slit 7 To study the nature and size of the image formed by i) convex lens ii) concave mirror on a screen by using a candle and a screen for different distances of the candle from the lens/mirror 8 To obtain a lens combination with the specified focal length by using two lenses from the given set of lenses

Suggested Investigatory Projects

- 1 To investigate whether the energy of a simple pendulum is conserved
- 2 To determine the radius of gyration about the centre of mass of a metre scale as a bar pendulum
- 3 To investigate changes in the velocity of a body under the action of a constant force and determine its acceleration
- 4 To compare effectiveness of different materials as insulators of heat
- 5 To determine the wavelengths of laser beam by diffraction
- 6 To study various factors on which the internal resistance/emf of a cell depends
- 7 To construct a time switch and study dependence of its time constant on various factors
- 8 To study infrared radiations emitted by different sources using photo transistor
- 9 To compare effectiveness of different materials as absorbers of sound
- 10 To design an automatic traffic signal system using suitable combination of logic gates
- 11 To study luminosity of various electric lamps of different powers and make
- 12 To compare the Young's modulus of elasticity of different specimens of rubber and also draw their elastic hysteresis curve
- 13 To study collision of two balls in two dimensions
- 14 To study frequency response of i) a resistor an inductor and a capacitor ii) RL circuit iii) RC circuit iv) LCR series circuit

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Applied Physics I | AICTE Prescribed Textbook (English) V. K. Yadav, Mina Talati, 2021-11-01 Applied Physics I is a compulsory paper for the first year Diploma course in Engineering. Force and Motion, Work, Power and Energy, Rotational Motion, Properties of Matter, Heat and Thermometry. Each topic is written in easy and lucid manner. Every chapter contains a set of exercises at the end of each unit to test the student's comprehension. Some salient features of the book: Content of the book is aligned with the mapping of Course Outcome, Program Outcomes and Unit Outcomes. Book provides lots of interesting facts, QR Code for E-resources, QR Code for use of ICT etc. Students and teacher centric subject materials are included in book with balanced and chronological manner. Figures and tables are inserted to improve clarity of the topics. Short questions, objective questions and long answer exercises of different difficulty levels are given for practice after every chapter. Solved numerical examples are provided with systematic steps in each chapter followed by numerical exercises with hints.

Recent Advances in Electrical and Electronic Engineering Bibhu Prasad Swain, Uday Shanker Dixit, 2023-10-02 This book presents select proceedings of the International Conference on Science, Technology and Engineering (ICSTE) 2023 related to electrical and electronic engineering. Various topics covered include neural network classification, text detection from natural scene images, speech processing systems, Wi-Fi intrusion detection, machine learning, wireless sensor network, image retrieval, automatic speech recognition, device physics.

power transfer photovoltaics antenna for ultra wideband applications electric vehicles etc The book is useful for researchers and professionals whose work involves electrical and electronics and computer science fields **Invasive Cardiology: A Manual for Cath Lab Personnel with Navigate Advantage Access** Sandy Watson,Kenneth A . Gorski,2022-03-10 This book is written primarily for technical and nursing professionals training to work in catheterization laboratories It also serves as a reference manual for these professionals during their first few years in the lab **DHHS Publication No. (NIOSH).**,1974 *The Indian National Bibliography* ,2018-04 **Hi-Tech Horticulture** K.V. Malam,V. R. Malam,D. R. Kanzaria,2024-02-06 This book demonstrates applications of the basic principles of horticulture and illustrates how they can be used systematically to define and eventually control existing phenomena It comprises of various practices for evaluating the technologies used in horticulture It will meet the growing need of students teachers and researchers alike in the field of horticulture and those working in agricultural universities and other related private firms Print edition not for sale in India
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Table of Contents Vk Publication Lab Manual

1. Understanding the eBook Vk Publication Lab Manual
 - The Rise of Digital Reading Vk Publication Lab Manual
 - Advantages of eBooks Over Traditional Books
2. Identifying Vk Publication Lab Manual
 - Exploring Different Genres
 - Considering Fiction vs. Non-Fiction
 - Determining Your Reading Goals
3. Choosing the Right eBook Platform
 - Popular eBook Platforms
 - Features to Look for in an Vk Publication Lab Manual
 - User-Friendly Interface
4. Exploring eBook Recommendations from Vk Publication Lab Manual
 - Personalized Recommendations
 - Vk Publication Lab Manual User Reviews and Ratings
 - Vk Publication Lab Manual and Bestseller Lists
5. Accessing Vk Publication Lab Manual Free and Paid eBooks
 - Vk Publication Lab Manual Public Domain eBooks
 - Vk Publication Lab Manual eBook Subscription Services

- Vk Publication Lab Manual Budget-Friendly Options
- 6. Navigating Vk Publication Lab Manual eBook Formats
 - ePub, PDF, MOBI, and More
 - Vk Publication Lab Manual Compatibility with Devices
 - Vk Publication Lab Manual Enhanced eBook Features
- 7. Enhancing Your Reading Experience
 - Adjustable Fonts and Text Sizes of Vk Publication Lab Manual
 - Highlighting and Note-Taking Vk Publication Lab Manual
 - Interactive Elements Vk Publication Lab Manual
- 8. Staying Engaged with Vk Publication Lab Manual
 - Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers Vk Publication Lab Manual
- 9. Balancing eBooks and Physical Books Vk Publication Lab Manual
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection Vk Publication Lab Manual
- 10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
- 11. Cultivating a Reading Routine Vk Publication Lab Manual
 - Setting Reading Goals Vk Publication Lab Manual
 - Carving Out Dedicated Reading Time
- 12. Sourcing Reliable Information of Vk Publication Lab Manual
 - Fact-Checking eBook Content of Vk Publication Lab Manual
 - Distinguishing Credible Sources
- 13. Promoting Lifelong Learning
 - Utilizing eBooks for Skill Development
 - Exploring Educational eBooks
- 14. Embracing eBook Trends

- Integration of Multimedia Elements
- Interactive and Gamified eBooks

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