



# CBSE Class 12 Physics Lab Manual 2026



# **Cbse Class 12 Physics Lab Manual Experiments**

**Dr. J. P. Goel, Er. Meera Goyal**



## **Cbse Class 12 Physics Lab Manual Experiments:**

**EduGorilla's CBSE Class 12th Physics Lab Manual | 2024 Edition | A Well Illustrated, Complete Lab Activity book with Separate FAQs for Viva Voce Examination** EduGorilla Prep Experts, **Physics Lab Manual Class XII | According to the latest CBSE syllabus and other State Boards following the CBSE curriculum** Mr. Rohit Manglik, Mr. Pradeep Dwivedi, 2022-08-01 With the NEP and expansion of research and knowledge has changed the face of education to a great extent In the Modern times education is not just constricted to the lecture method but also includes a practical knowledge of certain subjects This way of education helps a student to grasp the basic concepts and principles Thus trying to break the stereotype that subjects like Physics Chemistry and Biology means studying lengthy formulas complex structures and handling complicated instruments we are trying to make education easy fun and enjoyable CBSE Laboratory Manual Physics Class 12th Er. Akash Shukla, 2022-12-13 Once Owen Chamberlain said The development of Physics like the development of any science is a continuous one It is a constant effort of NCERT that it puts on its textbooks to promote clearer understanding of concepts in every student As important as theoretical study is practical study is also essential to prove theories into realities The freshly updated edition of LABORATORY MANUAL Physics for class XII has been designed as a complete package to understand all the relevant Physics experiments in a simple lucid and interactive manner Strictly based on CBSE guidelines each experiment includes theory to give deep insights into each concept formula term definition etc Viva Voce questions Precautions Activities Diagrams and Appendices are accumulated to make concepts clearer in accordance with the curriculum Along with the experiments suggested Investigatory Projects will reveal the complete adherence of CBSE curriculum This book serves as a step by step guide for conducting experiments in such a way that students will not need to refer to any other book for explanations of the concepts An all inclusive guidance book for Physics laboratory experiment Coverage of each experiment in a simple and lucid manner Detailed and Step by Step procedure for each experiment Necessary precautions to be followed for the experiment Viva Voce Questions to get an understanding on the experiment Suggested Investigatory Projects of the CBSE curriculum Clearly labeled Diagrams in each experiment Appendices related to some useful data TABLE OF CONTENT General Introduction of Practical Work How to Record an Experiment Experimental Errors Logarithms Basic Trigonometry Study of Graphs Section A Experiments Activities Section B Experiments Activities Suggested Investigatory Projects Appendices *Lab Sparks: Amazing Physics - Complete Edition for Classes 6-12: The Ultimate Practical Manual | You Can See, Feel & Explore! | 70+ Experiments from Kitchen Science to Electromagnetism | Aligned with NCERT, CBSE & NEP 2020* KUNDAN KUMAR, 2025-10-13 The Ultimate Science Adventure Awaits Discover the Magic of Physics with Over 70 Hands On Experiments That Will Blow Your Mind Welcome to Lab Sparks Amazing Physics Complete Edition the most comprehensive and student friendly practical manual ever created for young scientists in Classes 6 12 Ages 10 18 Whether you're launching balloon rockets or building your own electric motor this book

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**Physics Lab Manual Student Grd 12 2nd Edition** 182238, 2005-02-25 The Student Laboratory Manual provides extensive laboratory exercises and experiments to reinforce concepts and stimulate interest in further studies

Practical/Laboratory Manual Physics Class XII based on NCERT guidelines by Dr. Sunita Bhagia & Megha Bansal Dr. J. P. Goel, Er. Meera Goyal, 2020-06-24 SECTION A EXPERIMENTS 1 To determine resistance per cm of a given wire by plotting a graph for potential difference versus current 2 To find resistance of a given wire using meter bridge and hence determine the specific resistance Resistivity of its material 3 To verify the laws of combination Series Parallel of resistance using a meter bridge 4 To compare the e.m.f. of two given primary cells using potentiometer 5 To determine the internal resistance of a given primary cell e.g. Leclanche cell using potentiometer 6 To determine the resistance of a galvanometer by half deflection method and to find its figure of merit 7 A To convert a given galvanometer of known resistance and figure of merit into an ammeter of desired range and to verify the same 7 B To convert a given galvanometer of known resistance and figure of merit into a voltmeter of desired range and to verify the same 8 To find the frequency of AC mains with a sonometer and horse shoe magnet 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 graph between  $u$  and  $v$  or  $1/u$  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 the angle of minimum deviation for a given prism by plotting a graph between the angle of incidence and angle of deviation 6 To determine refractive index of a glass slab using a travelling microscope 7 To find the refractive index of a liquid by using a convex lens and a plane mirror 8 To draw I-V characteristics curve of a p-n junction in forward bias and reverse bias 9 To draw the characteristics curve of a Zener diode and to determine its reverse break down voltage 10 To study the characteristics of a common emitter n-p-n or p-n-p transistor and to find out the values of current and voltage gains

SECTION A 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 given circuit using multimeter 3 To assemble a household circuit comprising of 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 atleast a battery resistor rheostat key ammeter and voltmeter Make the components that are not connected in proper order and correct the circuit and also the circuit diagram SECTION B ACTIVITIES 1 To study effect of intensity of light by varying distance of the source on an LDR Light Depending Resistor 2 To identify a diode a LED a transistor an IC a resistor and a capacitor from mixed collection of such items 3 Use a multimeter to i identify the transistor ii distinguish between n p n and p n p type transistor iii see the unidirectional flow of current in case of a diode and a LED iv Check whether a given electronic components 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 polarisation 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 candle and a screen for different distance 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 PROJECT 1 To Study Various factors on which the Internal Resistance EMF of a cell depends 2 To study the variations in current following in a circuit containing L D R because of variation a In the power of incandescent lamp used to illuminate the L D R Keeping all the lamps in fixed position b In the Distance of a incandescent lamp of fixed power used to illuminate the L D R 3 To find the refractive indices of a Water b Oil Transparent using a plane mirror an equiconvex lens made from a glass of known refractive index and an adjustable object needle 4 To design an appropriate logic gate combination for a given truth table 5 To investigate the relation between the ratio of i Output and Input voltage ii Number of turns in secondary coils and primary coils of a self designed transformer 6 To Investigate the dependence of angle of deviation on the angle of incidence using a hollow prism filled one by one with different transparent fluids 7 To Estimate the charge induced on each one of the two identical styrofoam balls suspended in a vertical plane by making use of coulombs Law 8 To study the factors on which the self inductance of a coil depends by observing the effect of this coil when put in series with a resistor bulb in a circuit fed up by an a c source of adjustable frequency 9 To study the earth s magnetic field using a tangent galvanometer APPENDIX Some Important Tables of Physical Constants Logarithmic and other Tables

**A Laboratory Manual of Experiments in Physics** Leonard Rose Ingersoll, Miles Jay Martin, 1936 **Practical/Laboratory Manual Physics Class - 12** Er. Meera Goyal, 2023-04-30 Sections A 1 Experiments 2 Activities Sections B 1 Experiments 2 Activities 3 Suggested Investigatory 4 Project Work *Physics Laboratory Manual for Undergraduates* Dr. Yusuf Hanif Shaikh , Dr. Shailendra Bhalchandra Kolhe , We are happy to bring out this book titled Physics Laboratory Manual for Undergraduates It contains 16

experiments based on concepts from mechanics fluid mechanics electricity magnetism optics and electronics This book has been written to meet the requirements of undergraduate students Text has been thoroughly revised and brought up to date by adding essential experiments In this book theory formulae regarding the experiment have been included List of necessary apparatus for the experiment has been given Experimental procedure in systematic steps has been included in it The observations in tabular form have been encouraged throughout the text Precautions have been given at the end of the experiment so that students can follow them while performing the experiment We hope that all these features of the book will prove very useful for the students Suggestions about any errors mistakes doubts additions and deletions in the book are also invited If the students find any difficulty in these experiments they may please write an email to the authors A critical review from the academic community will indeed help us in future Our sincere thanks to Kailash publication and its entire staff for publishing this book We extend our thanks to our family members for their support during preparation of this manuscript Lastly we extend our sense of gratitude towards all those who helped us in this endeavor directly and indirectly

**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

**Activities**

- 1 To study effect of intensity of light by varying distance of the source on a LDR
- 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
- 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

**Laboratory Projects in Physics** Frederick Foreman Good, 2015-06-26 Excerpt from Laboratory Projects in Physics A Manual of Practical Experiments for Beginners These experiments have been organized for the purpose of giving concrete expression in the field of physics to the recent tendencies in the teaching of science with respect to aim subject matter and method The physics course in a modern high school should be organized according to the recognized function of education in a democratic society It should include units of study which the masses of boys and girls of high school age are able to pursue with profit It

should proceed toward an organization of practical situations activities and phenomena the value of which will be recognized and approved by teachers students parents administrators of education and others who are responsible for the work which boys and girls do in the high school It is intended that these experiments should form part of a physics course which includes class discussions and demonstrations They were devised and used for several years in a beginners course in practical physics They differ from the conventional physics laboratory experiments in that they deal more directly with the mechanisms and appliances of everyday experience The materials and procedure have been worked out in detail in order to aid the busy science teacher in the laborious task of placing practical laboratory study upon a workable basis A large list of projects and problems is offered In a year s course of thirty six to forty weeks perhaps not more than half of the ninety five experiments can be performed The complete list represents two years work unless more time is assigned to laboratory study than is the custom About the Publisher Forgotten Books publishes hundreds of thousands of rare and classic books Find more at [www.forgottenbooks.com](http://www.forgottenbooks.com) This book is a reproduction of an important historical work Forgotten Books uses state of the art technology to digitally reconstruct the work preserving the original format whilst repairing imperfections present in the aged copy In rare cases an imperfection in the original such as a blemish or missing page may be replicated in our edition We do however repair the vast majority of imperfections successfully any imperfections that remain are intentionally left to preserve the state of such historical works

**Laboratories** Clymer,2015-08-14

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## **Table of Contents Cbse Class 12 Physics Lab Manual Experiments**

1. Understanding the eBook Cbse Class 12 Physics Lab Manual Experiments
  - The Rise of Digital Reading Cbse Class 12 Physics Lab Manual Experiments
  - Advantages of eBooks Over Traditional Books
2. Identifying Cbse Class 12 Physics Lab Manual Experiments
  - 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 Cbse Class 12 Physics Lab Manual Experiments
  - User-Friendly Interface
4. Exploring eBook Recommendations from Cbse Class 12 Physics Lab Manual Experiments
  - Personalized Recommendations
  - Cbse Class 12 Physics Lab Manual Experiments User Reviews and Ratings
  - Cbse Class 12 Physics Lab Manual Experiments and Bestseller Lists
5. Accessing Cbse Class 12 Physics Lab Manual Experiments Free and Paid eBooks
  - Cbse Class 12 Physics Lab Manual Experiments Public Domain eBooks
  - Cbse Class 12 Physics Lab Manual Experiments eBook Subscription Services

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