

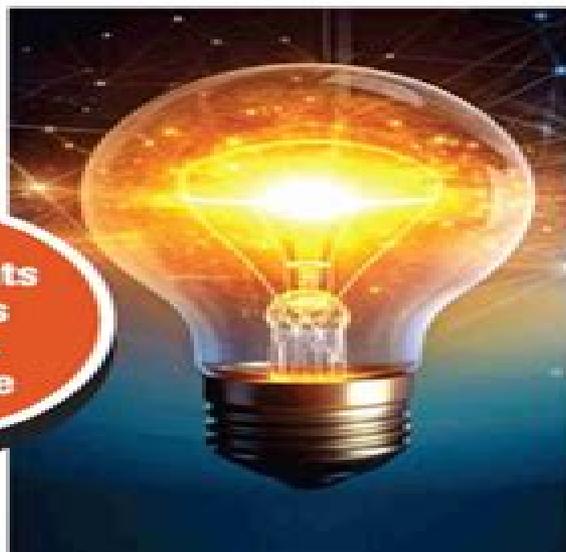


# LABORATORY Manual

# PHYSICS

## CBSE Class XII

- Experiments
- Activities
- Projects
- Viva-Voce



# Laboratory Manual Physics For Class Xii

**Oswaal Editorial Board**



## Laboratory Manual Physics For Class Xii:

Practical/Laboratory Manual Physics Class - XII -by Er. Meera Goyal (SBPD Publications) Er. Meera Goyal,2021-07-03 In accordance to the new syllabus of Central Board of Secondary Education CBSE New Delhi and other State Boards following CBSE Curriculum *Core Laboratory Manual of Physics for Class XII* Anil Sharma,Prashant Sharma,2020-04-16 Goyal Brothers Prakashan *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 *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 ameter 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  $1/v$

- To find the focal length of a convex mirror using a convex lens
- To find the focal length of a concave lens using a convex lens
- To determine the angle of minimum deviation for a given prism by plotting a graph between the angle of incidence and angle of deviation
- To determine refractive index of a glass slab using a travelling microscope
- To find the refractive index of a liquid by using a convex lens and a plane mirror
- To draw I-V characteristics curve of a p-n junction in forward bias and reverse bias
- To draw the characteristics curve of a zener diode and to determine its reverse break down voltage
- 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**

- To measure the resistance and impedance of an inductor with or without iron core
- To measure resistance voltage AC DC current AC and check continuity of given circuit using multimeter
- To assemble a household circuit comprising of three bulbs three on/off switches a fuse and a power source
- To assemble the components of a given electrical circuit
- To study the variation in potential drop with length of a wire for a steady current
- 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**

- To study effect of intensity of light by varying distance of the source on an LDR Light Depending Resistor
- To identify a diode a LED a transistor an IC a resistor and a capacitor from mixed collection of such items
- Use a multimeter to
  - identify the transistor
  - distinguish between n-p-n and p-n-p type transistor
  - see the unidirectional flow of current in case of a diode and a LED
  - Check whether a given electronic components e.g diode transistor or IC is in working order
- To observe refraction and lateral deviation of a beam of light incident obliquely on a glass slab
- To observe polarisation of light using two polaroids
- To observe diffraction of light due to a thin slit
- To study the nature and size of the image formed by
  - convex lens
  - concave mirror on a screen by using candle and a screen for different distance of the candle from the lens/mirror
- To obtain a lens combination with the specified focal length by using two lenses from the given set of lenses

**SUGGESTED INVESTIGATORY PROJECT**

- To Study Various factors on which the Internal Resistance EMF of a cell depends
- To study the variations in current following in a circuit containing LDR because of variation
  - In the power of incandescent lamp used to illuminate the LDR
  - Keeping all the lamps in fixed position
  - In the Distance of a incandescent lamp of fixed power used to illuminate the LDR
- 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
- To design an appropriate logic gate combination for a given truth table
- To investigate the relation between the ratio of
  - Output and Input voltage
  - Number of turns in secondary coils and primary coils of a self designed transformer
- 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
- To Estimate the charge induced on each one of the two identical styrofoam balls suspended in a vertical plane by making use of Coulomb's Law
- 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 AC 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 *Physics Lab Manual Class XII According to the Latest CBSE Syllabus and Other State Boards Following the CBSE Curriculum* Edugorilla Prep Experts,2022-08-18 The all new class 12 physics Lab Manual by Mr Pradeep Dwivedi is strictly based on the curriculum prescribed by CBSE State Boards of Chhattisgarh Haryana Bihar Jharkhand Kerala Mizoram Meghalaya and other state boards All the experiments in this Science Lab Manual have been given in a simple lucid and interactive manner The theory given with each experiment gives complete knowledge of each term concept and definition in order to provide a compact knowledge to the students at one place Viva Voce questions are given with each experiment to test students understanding of related experiments All the lab based experiments have well labeled diagrams which clearly demonstrate the details of the apparatus that are used the correct way of handling laboratory apparatus and perform the experiments methodically The basic purpose of this Lab Manual is to provide the students with appropriate guidance so that they can easily understand carry out and document the experiments in the Science Laboratory Some demonstration experiments are also included to illustrate principles and laws of physics Illustrative diagrams have been used at the places where it is required The Lab Manual comes with practical lessons followed by lab experiments after each chapter projects and attached Notebook for jotting down all the essential information The aim of this Science Lab Manual is to help class 12 students to prepare and understand the complex physics concepts through experimental approach by utilizing pedagogically enhanced content of the Lab Manual and with a compact knowledge base for improving their analytical experimental skills and learning abilities Oswaal CBSE Question Bank Class 12 Geography, Chapterwise and Topicwise Solved Papers For Board Exams 2025 Oswaal Editorial Board,2024-02-02 Description of the product 100% Updated Syllabus Fully Solved Board Papers we have got you covered with the latest and 100% updated curriculum Crisp Revision with Topic wise Revision Notes Smart Mind Maps Extensive Practice with 3000 Questions Board Marking Scheme Answers to give you 3000 chances to become a champ Concept Clarity with 1000 Concepts 50 Concept Videos for you to learn the cool way with videos and mind blowing concepts NEP 2020 Compliance with Competency Based Questions for you to be on the cutting edge of the coolest educational trends **Oswaal CBSE Question Bank Class 12 History, Chapterwise and Topicwise Solved Papers For Board Exams 2025** Oswaal Editorial Board,2024-01-23 Description of the product 100% Updated Syllabus Fully Solved Board Papers we have got you covered with the latest and 100% updated curriculum Crisp Revision with Topic wise Revision Notes Smart Mind Maps Mnemonics Extensive Practice with 3000 Questions Board Marking Scheme Answers to give you 3000 chances to become a champ Concept Clarity with 1000 Concepts 50 Concept Videos for you to learn the cool way with videos and mind blowing concepts NEP 2020 Compliance with Art Integration Competency Based Questions for you to be on the cutting edge of the coolest

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