

IGNOU

MCA 4th Semester

Solved

Lab Manual



Part-1

Ignou Lab Manual

Mr. Rohit Manglik



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Laboratory Course Mr. Rohit Manglik, 2024-03-03 EduGorilla Publication is a trusted name in the education sector committed to empowering learners with high quality study materials and resources Specializing in competitive exams and academic support EduGorilla provides comprehensive and well structured content tailored to meet the needs of students across various streams and levels Four Decades of Distance Education in India Suresh Garg, 2006 The evolution of distance education in India in forms of dual mode single mode and consortia has been phenomenal The system today is one of the largest distance education networks in the world comprising dual mode university distance education institutes single mode open universities dual mode secondary education single mode open schools distance education council consortium and many private and semi government providers of education and training The four generations of distance education have been implemented in a variety of forms and models and the system exhibits adoption of innovative practices in course design development delivery evaluation media networking and planning and management which have proved effective in addressing the issues of access and equity economy quality and reform in the country and which have been adapted emulated by a host of such systems in the developing world It is therefore imperative at this stage to reflect on the developments of above four decades of distance education in this country and map its future expansion Each chapter in the volume reflects on the concerned theme covering the distance education system in the country traces the limitations and adoption of innovative strategies to address the issues and introspect on its future possibilities *Directory of Distance Education Institutions: India* , 1991 Introduction to Database Management Systems Mr. Rohit Manglik, 2024-03-03 EduGorilla Publication is a trusted name in the education sector committed to empowering learners with high quality study materials and resources Specializing in competitive exams and academic support EduGorilla provides comprehensive and well structured content tailored to meet the needs of students across various streams and levels Engineering and Technical Education in India Pradeep Chaturvedi, 2003 **Advances in Mechanical Engineering** Gaurav Manik, Susheel Kalia, Sushanta Kumar Sahoo, Tarun K. Sharma, Om Prakash Verma, 2021-06-26 This book presents the select proceedings of Congress on Advances in Materials Science and Engineering CAMSE 2020 It focuses on the state of the art research development and commercial prospective of recent advances in mechanical engineering The book covers various synthesis and fabrication routes of functional and smart materials for applications in mechanical engineering manufacturing physics chemical and biological sciences metrology optimization and artificial intelligence among others This book will be a useful resource for researchers academicians as well as professionals interested in the highly interdisciplinary field of materials science and mechanical engineering *Are Prison Reforms Possible? Reformation and rehabilitation of Prisoners for the safety of the society* Adv. (Dr) P. Prathapan, The prisons and Correctional services forms and important wing in the Criminal Justice System But Prisons remain as isolated institution in the society At the same time correction a prisoner is considered as an important and

noble work In fact the correctional aspect is generally ignored The book discusses in detail the objectives of imprisonment the situation within the Prisons grievance redressal mechanism existing rehabilitation and welfare activities within Prisons the maintenance of various prisons in India and the initiatives for the development of infrastructure taken by the Governments in various Prisons in India The book also depicts the various observations on Prison conditions rights of Prisoners and suggestion for the overall improvement by Mahatma Gandhi who was a prisoner in South Africa and in India The book intends to bring out the importance of reformation of prisoners for their own rehabilitation and for the sake of the society and points to the possible problem areas where the immediate attention of Policy makers Legislatures and the public spirited citizens are required The book will be useful to Students of Sociology Law Criminology and Social work

Universities Handbook ,2014 **Annual Report** India. Department of Information Technology,2008 **Dictionary of International Biography** ,1997 A biographical record of contemporary achievement together with a key to the location of the original biographical notes Who's Who in Science and Engineering 2008-2009 Who's Who Marquis,Marquis Who's Who,2007-12 **CHEM 111 Lab Manual General Chemistry** Christofield,2019-08-12 **Lab Manual to accompany Physical Science** Bill Tillery,2008-09-05 *General Chemistry Laboratory Manual* Petra Van-Koppen,2003 Presents a lab manual for the two semester General Chemistry course This book contains experiments that cover the commonly assigned experiments found in a typical two semester course **Lab Manual** Azimuth Interactive,2005-04-01 **General Chemistry Laboratory II** YAN-YEUNG LUK,2016-11-02 Lab Manual Course 1 , **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 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 I C 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

Physical Science Bill W. Tillery, 2016-02-09 The laboratory manual written and classroom tested by the author presents a selection of laboratory exercises specifically written for the interests and abilities of nonscience majors There are laboratory exercises that require measurement data analysis and thinking in a more structured learning environment while alternative exercises that are open ended Invitations to Inquiry are provided for instructors who would like a less structured approach When the laboratory manual is used with Physical Science students will have an opportunity to master basic scientific principles and concepts learn new problem solving and thinking skills and understand the nature of scientific inquiry from the perspective of hands on experiences The laboratory manual is customizable via McGraw Hill Create The instructor s edition of the laboratory manual can be found under the Instructor Resources on the Physical Science Online Learning Center

Physical Chemistry Laboratory Manual Ramesh Kumari, Amirtha Anand, 2018-10-05 This book covers the latest syllabus of CBCS pattern of Delhi and other universities for both B Sc Programme and Honours courses A large number of Physical Chemistry Environmental Chemistry Nanoscience Polymer Chemistry and Analytical Chemistry experiments have been covered using interdisciplinary and innovative methods The contents include some fundamental chemical concepts measurement of surface tension and viscosity colorimetry determination of order of a reaction heterogeneous equilibria adsorption on solid surfaces thermochemical measurements conductometric and potentiometric measurements pH metry environmental parameter analysis etc Wherever possible two or more methods are given So the teachers and students will have a choice to make depending on the availability of chemicals apparatus instruments time etc This book will give them the opportunity to relate theory and practicals for a better understanding of the subject

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