



IT WORKSHOP

Lab Manual

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Jntuh University Cse Lab Manual

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Jntuh University Cse Lab Manual:

Laboratory Manual in Engineering Chemistry : For the Students of JNTU Hyderabad Dr. B. Rama Devi & Dr. P. Aparna, The book is written to gain the basic knowledge on the principles of chemistry required for practical applications in engineering concepts This book consists organic and general chemistry experiments for chemical engineering for 1st and 2nd semester students The book also explains the precautions and safety rules for avoiding the accidents in chemistry laboratory It covers Estimation of Ferrous iron by Dichrometry and Permanganometry Method Estimation of Acetic Acid by Conductometric Titrations Estimation of the Amount of Fe 2 by Potentiometry Determination of an Acid Concentration using pH Meter Preparation of Nylon 6 and Bakelite Phenol Formaldehyde Resin Estimation of Acid Value of Given Lubricant Oil Determination of Rate of Corrosion of Mild Steel Preparation of Benzanilide from Benzophenone via the Oxime by Beckmann Rearrangement etc

Engineering Chemistry Laboratory Manual Shirish Kumar KODADI, 2020-08-31 Over the most recent couple of years the importance of undergraduate technical education has grown amid a huge industrial revolution in our country More refined and recently discovered super specific topics are being introduced instead of old ones while modifying the course curriculum In the new course curriculum more noteworthy accentuation is laid on the basic science subjects and on the need to develop in depth knowledge about the fundamentals of any particular area of academic interest Keeping all this in mind and utilizing my long experience as a teacher in a technical college under a technical university I have ventured to write this book titled Engineering Chemistry Laboratory Manual In this book all experiments are explained as per the JNTU syllabus for the first year students of B Tech These are supplemented with theoretical explanations followed by procedure description tabulation calculation sample calculation and finally a series of possible viva voce questions and their answers relating to that experiment This book will certainly help all B Tech B E students to do well in their viva voce while completing their experiments cum examinations It will also serve as a textbook in Chemistry practical examinations for any student in the laboratory I sincerely hope that this book will receive full appreciation from both students and teachers

Lab. Manual for CSE/CSE-DS/ AIML/AIDS students-A Practical Manual Dr. Rajiv Chopra, 2025-02-21 Lab Manual for CSE CSE DS AIML AIDS Students By Dr Rajiv Chopra This book serves as a comprehensive lab manual for B Tech students specializing in Computer Science Data Science Artificial Intelligence and Machine Learning Designed with a practical and experiment based approach it bridges the gap between theory and real world application Covering essential programming concepts AI ML techniques and hands on exercises this manual equips students with the skills needed for modern computing challenges Ideal for CSE IT ECE and related disciplines this book encourages students to explore experiment and apply their knowledge effectively in labs and projects

Web Technologies & Applications Sammulal Porika, M Peddi Kishore, 2017-03-28 Survey Laboratory (Lab Manual) Na Vikraman, 2020-08-03 This book has been written for BE B Tech students of All University with latest syllabus for ECE EEE CSE IT Bio Medical Mech Civil Departments also it is very useful

for Diploma Arts Science Students The basic aim of this book is to provide a basic knowledge in Survey Laboratory Program for engineering students of degree diploma AMIE courses and a useful reference for these preparing for competitive examinations All Experiments have excellent output results All the concepts are explained in a simple clear and complete manner to achieve progressive learning Each Programs is well supported with the necessary illustration practical output explanations

Lab Manual, 2022-12-28 This book is about lab manuals of Computer Science and Engineering in Data Science department This book is designed to give complete description about the methodology to perform lab experiments This book comprises of 13 sections of different courses Data Structure lab CSL 301 Digital Logic and Computer Architecture lab CSL 302 Computer Graphics lab CSL 303 Object Oriented Programming with Java lab CSL 304 Analysis of algorithm lab CSL 401 Database Management System lab CSL 402 Operating System lab CSL 403 Microprocessor lab CSL 404 Python Programming lab CSL 405 Web Computing and Network lab CSL 501 Artificial Intelligence lab CSL 502 Data Warehousing and Mining lab CSL 503 Cloud Computing lab CSL 605 Different platforms that have been used to perform experiments are TurboC Cisco Packet Tracer Node JS JDK 1 7 Weka tool Open Refine Jupiter MySQL PyCharm GeNle Modeler Each section of book consists of 10 15 experiments Each lab experiment is organized with aim problem statement resources required theory and conclusion To analyze the performance and to enhance the knowledge of students a separate section of multiple choice questions has been included in the book at the end of each experiment

Chemistry Lab Manual Teacher's Edition, Home/Small CS Edition Bob Jones University Press, *Laboratory Manual for Engineering Chemistry* B. B. Patra, 1900 A Textbook Of Experiments And Calculations In Engineering Chemistry Engineering Chemistry Comprehensive Engineering Chemistry Engineering Chemistry Experiments and Calculations Calculations in Engineering chemistry chemistry experiments for engineering students chemistry calculations experiments in engineering chemistry enggchemistry experiments engineering chemistry lab experiments engineering chemistry projects recent chemistry projects for engg experiments for engg chemistry lab engineering chemistry projects in engg lab

Chemistry Lab Manual Neena Sinha, R Rangarajan, R P Manchanda, R K Gupta, Rajesh Kumar, Lab Manual **General Chemistry Lab Manual 7E for Drexel University** Thorne, 2011-10-18 **Engineering Practices Lab Manual - 5Th E** T Jeyapoovan Nadar, Engineering Practices Lab Manual covers all the basic engineering lab practices in the Civil Mechanical Electrical and Electronics areas The manual details the various tools to be used and exercises to be practiced in the application of engineering practices in each field

Lab Manual Azimuth Interactive, 2005-04-01 **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

Lab Manual for Electronic Communications Jeffrey S. Beasley, Mark E. Oliver, Jonathan D. Hymer, David Shores, Gary M. Miller, 2013-06-24 This is a student supplement associated with Electronic Communications A System Approach 1 e Jeffrey S Beasley Jonathan D Hymer Gary M Miller ISBN 0132988631 *Chem 1280 Lab Manual* Norman E. Griswold, 2017 **Laboratory Manual for Computer Hardware (CSC216)**, 2016 **Best Lab Manual of Simulation and Analysis Laboratory** Na Vikraman, 2020-06-26 This book has been written for BE B Tech students of All University with latest syllabus for ECE EEE CSE IT Bio Medical Mech Civil Departments also it is very useful for Diploma Arts Science Students The basic aim of this book is to provide a basic knowledge in Simulation and Analysis Laboratory Program for engineering students of degree diploma AMIE courses and a useful reference for these preparing for competitive examinations All Experiments have excellent output results All the concepts are explained in a simple clear and complete manner to achieve progressive learning Each Programs is well supported with the necessary illustration practical output explanations **Live Lab Manual for State Fair Community College Chemistry Courses** Shayna Burchett, 2017-05-08 Integrated Science Lab Manual Shonique R. Ebanks, Shonique R Ebanks Msc, 2016-07-20 This Science Lab Manual consists of over 30 lab based experiments for students aged 12 17 years The manual also guides students on how to write up experiments and outlines for teachers the skills being tested for and suggestions for discussions *Univ of Texas Lab Manual & Student Cass Pkg* ANONIMO, 2000-12-01

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