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FACULTY OF ENGINEERING & TECHNOLOGY
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B.Tech- 2nd Year 3rd Semester

**FACULTY OF ENGINEERING AND TECHNOLOGY
PARUL INSTITUTE OF ENGINEERING & TECHNOLOGY
COMPUTER SCIENCE & ENGINEERING DEPARTMENT**

**PYTHON PROGRAMMING LABORATORY
(203105212)**

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Gui Lab Manual For Btech

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Gui Lab Manual For Btech:

Popular Science, 2007-05 Popular Science gives our readers the information and tools to improve their technology and their world The core belief that Popular Science and our readers share The future is going to be better and science and technology are the driving forces that will help make it better **Computer Interfacing Laboratory** Florida Institute of Technology. Department of Electrical and Computer Engineering, 1989 **C Lab Manual for B. Tech First Year Jntuk** rama bhadra rao maddu, 2012-01-13 This Book is for C lab manual of Engineering and Degree students it contains the Algorithm flowchart of each and every program so every one can use this book for hand book in computer lab Lab Manual, 2022-12-28 This manual is intended for the all year students of Computer engineering branch in the subject of Data Structure Lab Computer Graphics Lab Computer Network Lab Artificial Intelligence Lab and Skill base Lab Course Cloud Computing etc This manual typically contains practical Lab Sessions related various concepts related to computer network computer graphics and Programming Language covering various aspects related the subject to enhanced understanding Although as per the syllabus concepts and algorithms are prescribed we have made the efforts to cover various aspects of related all specific laboratories Students are advised to thoroughly go through this manual rather than only topics mentioned in the syllabus as practical aspects are the key to understanding and conceptual visualization of theoretical aspects covered in the manuals Good Luck for your Enjoyable Laboratory Sessions **A+ Guide to Hardware** Jean Andrews, Jill West (Author of CompTIA Network+ guide to networks), 2016-01-29 This lab manual contains more than 65 labs to provide additional hands on experience and to help prepare for the CompTIA A 220 901 certification exam including complete lab procedures and post lab review questions Digital Systems Maintenance Lab Manual Ziad Mahammod Al-Asmar, 2011 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 **POLYTECHNIC LAB MANUAL FOR ENGINEERING SCIENCE**, 2014 **Computer Interface Starter Lab Manual** Flinn Scientific, Incorporated, 1996-01 **Computer Aided Machine Drawing Laboratory (Lab Manual)** Na Vikraman, 2020-06-25 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 Computer Aided Machine Drawing 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 Programming Bydesign Thomson Course Technology,1987-01-01 *Lab Manual* Azimuth Interactive,2005-04-01 Computer Information System Business Lab Gremillion,1989-01-01 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 *Electronics Fundamentals Student Lab Manual* Global Specialties,2022-11-13 **Multimedia Lab Manual** G. Velumani,2018-07-06 Programs in this manual are as per the DTE Syllabus for Computer Science and Engineering **Lab Manual for Schneider and Gersting's An Invitation to Computer Science, Second Edition** Kenneth Alfred Lambert,1999 Lab Manual John Lewis,John Lewis, Dr, Ed.D,William Loftus,2006-03 With lab exercises covering important topics in all 12 chapters this lab manual will accompany the Fifth Edition of the Lewis and Loftus Java Software Solutions The exercises provide hands on experience with programming concepts introduced in an introductory programming course Manual solutions and source code are available online **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**,2015

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