

I B.Tech II-Sem

# IT WORKSHOP LABORATORY MANUAL

## R22-JNTUH

**ACADEMIC YEAR (2023-2024)**  
Common to CSE, CSE(AI&ML), CSE (DS)



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# Jntuh Lab Manual

**N Colangelo**



## **Jntuh Lab Manual:**

**POLYTECHNIC LAB MANUAL FOR ENGINEERING SCIENCE**, 2014      *Lab Manual to accompany Physical Science*

Bill Tillery, 2008-09-05      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 Activitie 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 liquid 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, 2/E** Beeson,1999-08-12 *Lab Manual for General, Organic & Biochemistry* Larry C Byrd, Dr.,Norman W Hunter, Dr.,Charles H Henrickson, Dr.,2010-01-20 The seventh edition by Charles H Henrickson Larry C Byrd and Norman W Hunter of Western Kentucky University offers clear and concise laboratory experiments to reinforce students understanding of concepts Pre laboratory exercises questions and report sheets are coordinated with each experiment to ensure active student involvement and comprehension An updated student tutorial on graphing with Excel has been added to this edition Laboratory Instructor s Manual Written by Charles H Henrickson Larry C Byrd and Norman W Hunter of Western Kentucky University this helpful guide contains hints that the authors have learned over the years to ensure students success in the laboratory This Resource Guide is available through the Connect Chemistry website for this text

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Lab Manual Tony Cook,2003-11-30 **Lab Manual Fundamental General** Mohr,1996-01-01 Lab Manual Course 1 , *Loose Leaf for Lab Manual for Inquiry into Life* Michael Windelspecht,Sylvia Mader,2016-03-18 Lab Manual Scholargy Publishing, Incorporated,1999-08 Lab Manual Nigel P. Cook,Gary A. Lancaster,2004-02 *IHT Lab Manual Instructor's Guide* Parker Hannifin Corporation,2016 Instructor s guide for Bul 0216 B1 R1 student lab manual **Lab**

**Manual** Jim C. De Loach,1995      *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** Benjamin Crowell,virginia Roundy,2007      *Lab Manual Fundamental* Mohr,1996-01-01

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## **Table of Contents Jntuh Lab Manual**

1. Understanding the eBook Jntuh Lab Manual
  - The Rise of Digital Reading Jntuh Lab Manual
  - Advantages of eBooks Over Traditional Books
2. Identifying Jntuh Lab Manual
  - 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 Jntuh Lab Manual
  - User-Friendly Interface
4. Exploring eBook Recommendations from Jntuh Lab Manual
  - Personalized Recommendations

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

- 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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