



IT WORKSHOP LAB MANUAL

(I/IV B.Tech I SEMESTER)



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Kanuru, Vijayawada-520007. Approved by AICTE Affiliated to JNTU
Sponsored by Siddhartha Academy of General and Technical Education,
Vijayawada.**

**PROFORMA FOR LABORATORY-BASED
COURSE DESCRIPTION**

It Workshop Lab Manual For Jntu

Gregory L. Moss



It Workshop Lab Manual For Jntu:

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 *Laboratory Manual for Civil Engineering* H. S. Moondra,2019-06-30 This is a laboratory manual which contains a well selected number of experiments for that provide appropriate insights as well as a broad overview of the entire field of civil engineering **Electrical Workshop Laboratory Manual** D Jayachandra,2012 **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** Azimuth Interactive,2005-04-01 **Lab Manual to Accompany Physical Science** Bill W. Tillery,Tillery Bill,2006-03

Manufacturing Practices Laboratory Manual For Engineering Courses M.S. Matharu,Sukhpal Singh,2021-05-19 This manual covers in details the theory and practices of Carpentry and Pattern Making Shop Foundry Shop Smithy and Forging Shop Machine Shop Welding Shop Electrical and Electronic Shops Sheet Metal Shops Fitting Shop **A Text Manual of Engineering Workshop Technology** N. Balasubramanyam,G. Prasanthi,2016-05-26 This book on Basic Engineering Workshop Technology has been written as per curriculum of JNT University to help first Year B Tech Students This subject matter is presented in simple language and in a proper sequence so that an average student can be easily grasp the subject matter At the end of each excercise a model viva voice questions is given for the benefit of the book reader and appearing for their lab External examinations and other competitive examinations **Lab Manual for Andrews' A+ Guide to IT Technical Support, 9th Edition** Jean Andrews,Jill West (Author of CompTIA Network+ guide to networks),2016-01-06 The Laboratory Manual is a valuable tool designed to enhance your lab experience Lab activities objectives materials lists step by step procedures illustrations and review questions are commonly found in a Lab Manual

Exam 70-215 Project Lab Manual Laudon,2003-07 *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 *Lab Manual* Nigel P. Cook,Gary A. Lancaster,2004-02 **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 IC 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

IHT Lab Manual Instructor's Guide Parker Hannifin Corporation, 2016 Instructor's guide for Bul 0216 B1 R1 student lab manual ENGINEERING PRACTICES LAB MANUAL - THIRD EDITION T Jeyapoovan & Saravanapandian & S Pranitha, 2006-01-01 **Workbook Lab Manual W/Answer Key** Cummings, 1998-09-01 **Lab Manual COMPTIA A+ Guide to Information Technology Support** Jean Andrews, Joy Dark, Jill West, 2022-02-15 **Lab Manual** Gregory L. Moss, 1991 **Lab Manual for A+ Guide to Hardware** Jean Andrews, Todd Verge, 2005* *Computer Interfacing Laboratory* Florida Institute of Technology. Department of Electrical and Computer Engineering, 1989

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