

I B.Tech II-Sem

IT WORKSHOP LABORATORY MANUAL R22-JNTUH

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



MALLA REDDY COLLEGE OF ENGINEERING
(Formerly CM Engineering College)

Approved by AICTE, & Permanently Affiliated to JNTUH; ISO 9001:2008 Certified Institution
Masammaguda, Dhulepally (post via Kompally) secunderabad-500100. Tel:040-64632248, Mobile:9348161222,9346162620
E-mail: principal@mrce.in ,cmecprincipal@gmail.com; web: www.mrce.in

Jntuh Ac Lab Manual

Brooks/Cole



Jntuh Ac Lab Manual:

Acp Chem 1172 General Chemistry Lab Manual Brooks/Cole, 2014-04-21 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 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 for Tomczyk/Silberstein/ Whitman/Johnson's Refrigeration and Air Conditioning Technology, 8th John Tomczyk,Eugene Silberstein,Bill Whitman,Bill Johnson,2016-02-26 The Laboratory Manual is a valuable tool designed to enhance your students lab experience The manual includes a variety of resources such as lab activities objectives materials lists step by step procedures illustrations and review questions Lab Manual to Accompany Dc/ac Circuits and Electronics Kevin Taylor,2003 **Laboratory Manual for Introductory Electronics Experiments** L. K. Maheshwari,M. M. S. Anand,1979 *Acp Chem 1171 General Chemistry Lab Manual* Brooks/Cole,2014-04-25 **DC/AC Computer Lab Manual** Kenneth E. Windham,1995 *Acp Chm 1132 General Chemistry Lab Manual* Brooks/Cole,2016-11-16 **Lab Manual to Accompany Electricity for Refrigeration, Heating, and Air Conditioning** Russell E. Smith,2006 CHEM 0011 ,2013 **Acp Chemistry Lab Manual Chm 1127** Brooks/Cole,2015-05-06 Acp Ch 124 General Chemistry Lab Manual @ Defiance College Brooks/Cole,2014-12-04 **Acp General Chemistry Lab Manual - Rose Hulman Institute Of** Brooks/Cole,2014-06-04 **Acp-Chemistry Lab Manual** Kotz,2002-06 Lab Manual Buchla,1999-01 *Acp Chem 111/112/113/115 General Chemistry Lab Manual @ Ros* Brooks/Cole,2015-07-10 *Acp General Chemistry Lab Manual @ Defiance College* Brooks/Cole,2014-06-04 Acp General Chemistry Lab Manual - Rose Hulman Brooks/Cole,2013-05-15 **Electrical 2 - AC Theory** Louis Jraige,2019-07-21 This weekly laboratory manual and rubric accompanies and follows the progression of the AC Electricity courses at Fanshawe

College This book also accompanies and follows the progression of the textbook titled Introductory Circuit Analysis 13th edition by Robert L Boylestad and published by Pearson publishing which is used in my Electrical 2 AC Theory course This manual lays out the standards expectations conventions and best practices pertaining to scientific experimentation data collection and analysis Finally this manual details the requirements for each of the weekly labs the students are expected to perform for the course including all pre lab experimental and post lab work **Quik-lab for AC Circuits** Albert Paul Malvino, Joanna Mary Malvino, 1989

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