

Download Physics 102 Lab Manual 2015

Lab Schedule – Physics 102. June 7 232 Electrostatics Ch. 18 June 14 241 Ohm's Law Ch. 20 June 19 232 Series and Parallel Resistors Ch. 21 June 21 241 Magnetic Fields Ch. 22 232 Current Balance Ch. 23 241 Electromagnetic Induction Ch. For Physics 201 and 202, calculus is also required. •Do not bring food, tobacco, or beverages into a lab room. Final lab grades. Your final lab grade is awarded on the basis of: Lab Assignments 80% Lab Exam 20% Consult your lecture instructor for the weight given to the lab grade in the total course grade. Physics 102 Laboratory Schedule for Spring 2018 No. Lab Name Week * No Lab Partial Week January 17-19 1 Gas Thermometer and Absolute Zero January 22-26 2 Mechanical Equivalence of Heat January 29 - February 2 3 Calorimetry, Specific Heat and Latent Heat February 5-9 4 Equipotentials and Electric Fields February 12-16 5 DC Circuits February 19-23 EXPERIMENTS IN PHYSICS A lab Manual for Physics 102 UAH August 2003 CONTENTS Introduction to the Laboratory Lab activities 1. Electric Charge, Field and Potential 1 2. Electrostatic Charge, Potential and Capacitance 6 3. Circuit Basics 12 4. Electric Voltage, Current, Power and Work 16 5. Magnetic Field 21 6. Magnetism and Tangent Galvanometer 24 7. Induced EMF 28 8.