



Code	Subject Title	Cr. Hrs	Semester
PHY-212	Physics Lab-III (Electricity & Magnetism)	1	III
Year	Discipline		
2	Chemistry-II, Mathematics-I, Statistics-I		

1. Measurement of resistance using a neon flash bulb and condenser
2. I-H Curve by Magnetometer
3. Conversion of a Pointer Galvanometer into a voltmeter
4. Conversion of a Pointer Galvanometer into an ammeter
5. Calibration of a meter and voltmeter by potentiometer
6. Low resistance by Carey Foster bridge
7. Charge sensitivity of a ballistic galvanometer taking into account Logarithmic decrement
8. Comparison of capacities by ballistic galvanometer
9. Determination of temperature coefficient of a resistance
10. Measurement of magnetic field by fluxmeter or by search coil method.
11. Measurement of H by earth inductor.

Recommended Books:

1. Physics Vol. I & II (extended) by Resnick, Halliday and Karne, 4th and Sons Inc, New York.
 2. Fundamentals of Physics by Halliday Resnick and Krane, John Wiley and Sons Inc, New York.
 3. University Physics 8th Edition by Sears, Zemansky and Young, Addison – Wesley, Reading (MA), USA.
 4. Physics by Alonso and Finn; Addison-Wesley, Reading (MA) USA.
-